

PERKHIDMATAN PEMBANGUNAN SISTEM PERMOHONAN PRE-KELULUSAN
(PRE-COUNCIL) PELAN BANGUNAN BAGI PROJEK IBS UNTUK LEMBAGA
PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB)

IBS SCORE SYSTEM

WIREFRAME AND TECHNICAL SPECIFICATION

Prepared by: TORRENT TECHNOLOGIES SDN BHD

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1.0 DOCUMENT CONTROL

1.1 Document Revision History

Effective from	Version Number	Nature of the Change	Author	Review and comments by
02.04.2024	V1.1	New draft	Suraya Mushaqdeen Arun Prakash	
02.04.2024	V1.2	Add DB details	Arun, Prakash	
03.04.2024	V1.3	Front-end	Mushaqdeen	
03.05.2024	V1.4	New draft	Suraya Mushaqdeen Arun Prakash	
14.06.2024	V1.5	Updated	Suraya Mushaqdeen Arun Prakash	

1.2 Approver(s) Control

Your signature affirms you agree with the purpose and scope of this document; the document has been appropriately reviewed; and you understand and accept responsibility for any assignments or functional implementation based on this document.

By signing this approval, the approver agrees that the Wireframe and Technical Specification is as complete and as accurate as possible and that the functional and/or development and/or migration work should proceed.

Name	Project Role	Signature	Date Signed
Rosmadi Harun	Project Head		
Haidah Mustafa	Project Manager		

2.0 INTRODUCTION

This document defines the wireframe and technical specification adopted for the new **IBS SCORE COMPLIANCE SYSTEM (ISCS)** as the new benchmark system for IBS.

3.0 OBJECTIVE

3.1 Document Purpose

The following are all the topics covered defines the objectives achieved through this document.

No	Document structure	Description
1.	User Interface	New design with angular material.
2.	Data Structure	Table Design with Tech document
3.	Develop Technology and Framework	Prototype with latest .net core 6 and Angular deployed and tested. Framework is set and full scale work is started.
4.	Approach	UI Screen flow and Parallel DB and API Development for end points
6.	Project Stages	PSP Registration, PSP Login, PSP Application and Calculator

3.2 Glossary of Terms

The following defines the terms and acronyms used in this document

Terms/Acronyms	Definitions
ISCS	IBS Score Compliance System
IBS	Industrialized Building System
PSP	Principal Submitting Person
CIDB	Construction Industry Development Board

4.0 User Interface

The User interface is developed by using latest Angular material Version 18.0.

High importance is given in designing the interface in order to give end user a unique screen driven experience. Each screen is crafted with information, notes and alerts, enabling and guiding users to complete their functions in the system smoothly.

Our project structure is divided into two parts:

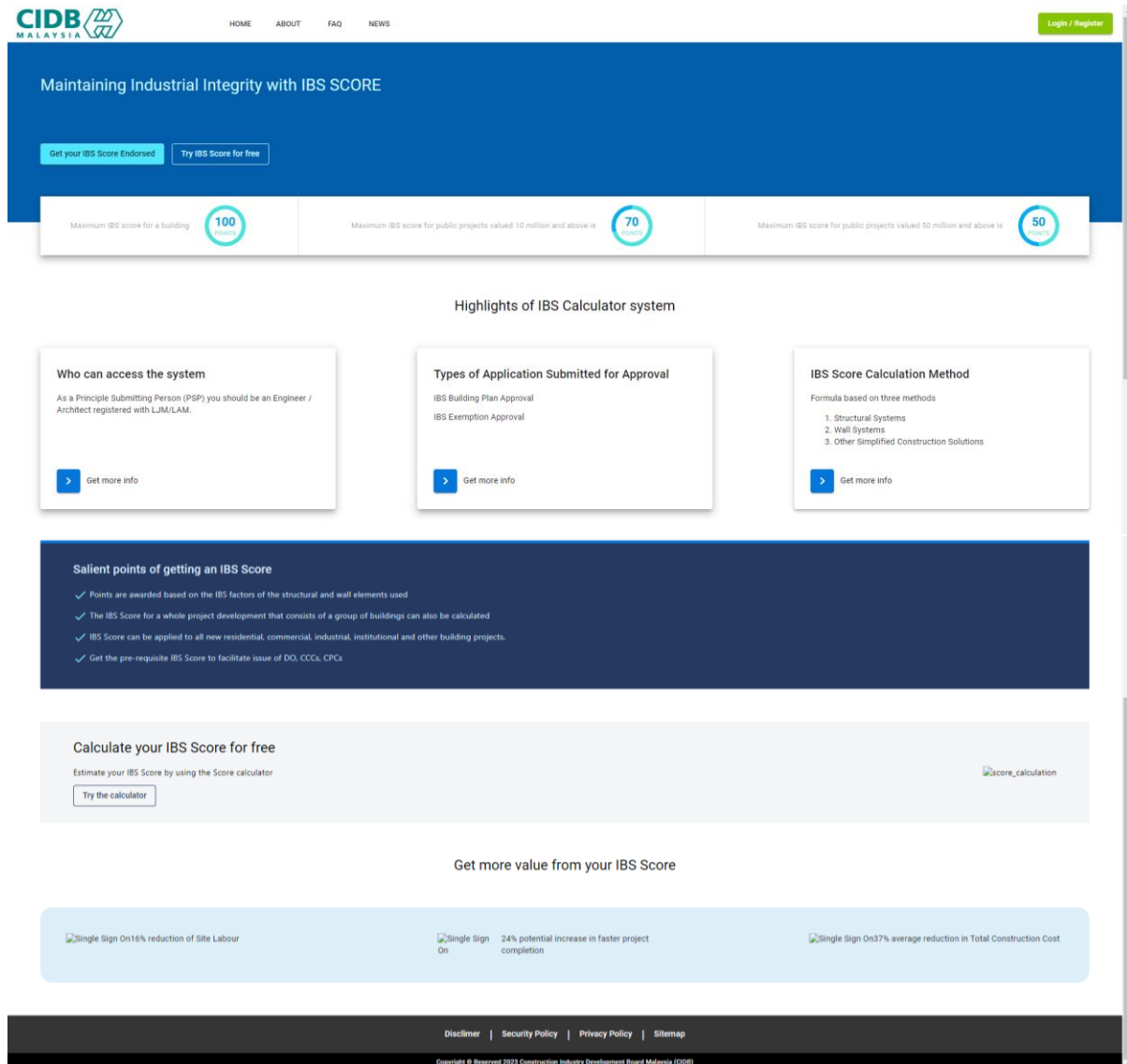
1. User
2. Admin

User:

When the user enters IBS Score site they will get the below landing page. From that landing page they can do the following stuff:

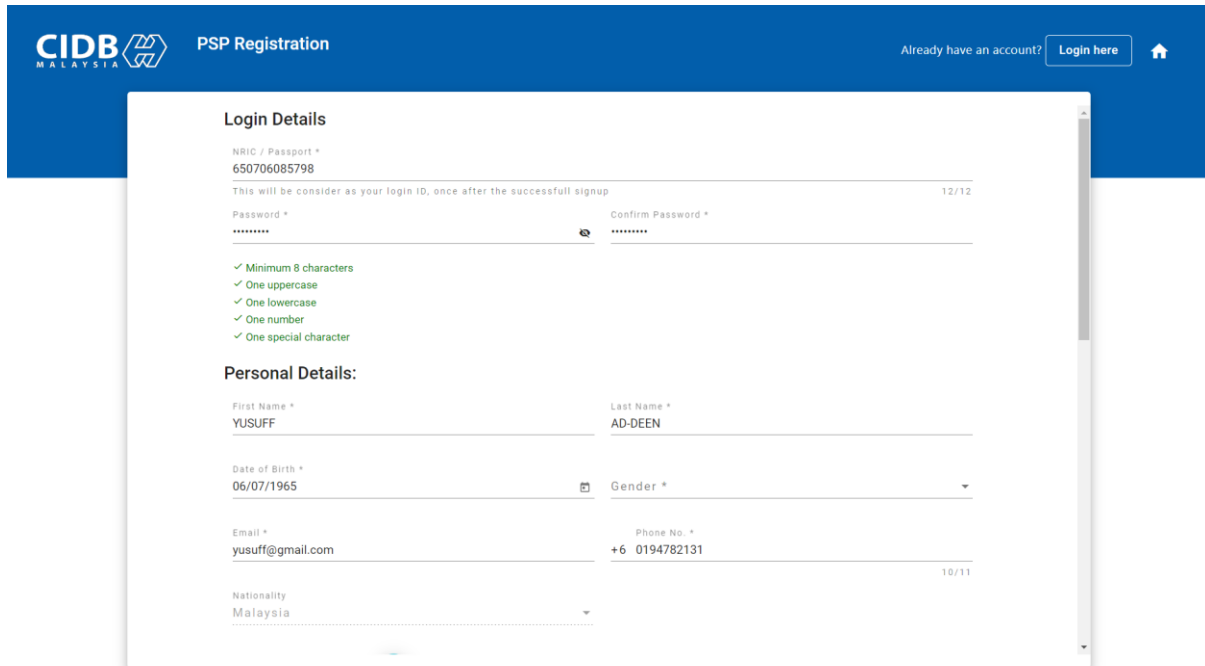
- Get to know what is IBS Score and how it works
- Signup as a new user
- Login with their credentials

4.1 Landing Page IBS Score Compliance System (ISCS)

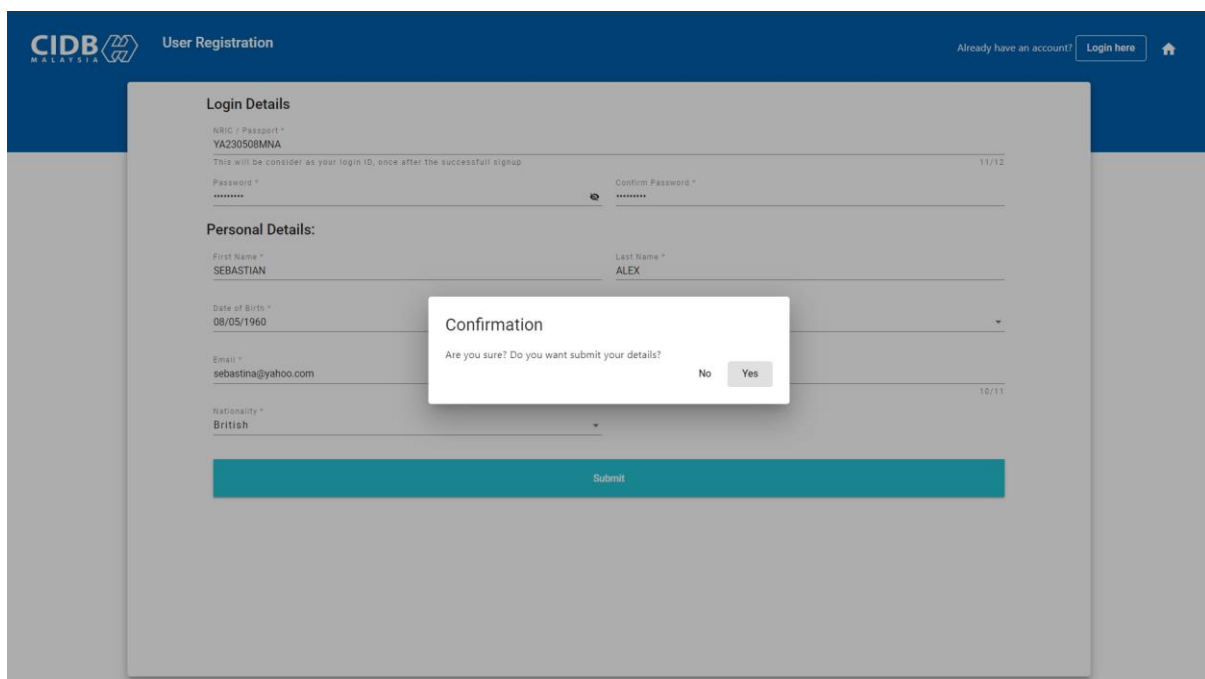


4.2 PSP Registration Interface

- New user needs to register their profile first before they able to login
- Details required are Login Details and Personal Details



The wireframe shows the 'PSP Registration' interface. It features a blue header with the CIDB MALAYSIA logo, the title 'PSP Registration', and a link 'Already have an account? Login here' with a home icon. The main content area is a white form with two sections: 'Login Details' and 'Personal Details:'. The 'Login Details' section includes fields for 'NRIC / Passport *' (value: 650706085798), 'Password *' (masked with dots), and 'Confirm Password *' (masked with dots). Below the password fields are five green checkmarks indicating password requirements: 'Minimum 8 characters', 'One uppercase', 'One lowercase', 'One number', and 'One special character'. The 'Personal Details:' section includes fields for 'First Name *' (value: YUSUFF), 'Last Name *' (value: AD-DEEN), 'Date of Birth *' (value: 06/07/1965), 'Gender *' (dropdown menu), 'Email *' (value: yusuff@gmail.com), 'Phone No. *' (value: +6 0194782131), and 'Nationality' (value: Malaysia). A 'Submit' button is located at the bottom right of the form.



The wireframe shows the 'User Registration' interface. It features a blue header with the CIDB MALAYSIA logo, the title 'User Registration', and a link 'Already have an account? Login here' with a home icon. The main content area is a white form with two sections: 'Login Details' and 'Personal Details:'. The 'Login Details' section includes fields for 'NRIC / Passport *' (value: YA230508MNA), 'Password *' (masked with dots), and 'Confirm Password *' (masked with dots). Below the password fields are five green checkmarks indicating password requirements: 'Minimum 8 characters', 'One uppercase', 'One lowercase', 'One number', and 'One special character'. The 'Personal Details:' section includes fields for 'First Name *' (value: SEBASTIAN), 'Last Name *' (value: ALEX), 'Date of Birth *' (value: 08/05/1960), 'Gender *' (dropdown menu), 'Email *' (value: sebastina@yahoo.com), 'Phone No. *' (value: +6 0194782131), and 'Nationality' (value: British). A 'Submit' button is located at the bottom right of the form. A 'Confirmation' dialog box is overlaid on the form, asking 'Are you sure? Do you want submit your details?' with 'No' and 'Yes' buttons.



User Registration

Already have an account? [Login here](#)

Login Details

NRIC / Passport *
 820706085798

This will be consider as your login ID, once after the successfull signup

12/12

Password *

Confirm Password *

Personal Details:

First Name *
 YUSUFF

Last Name *
 AD-DEEN

Date of Birth *
 06/07/1982

Email *
 suraya@torrenttech.com.my

Nationality
 Malaysia

10/11

Submit

Information

We have sent a verification link to your registered email ID! Kindly verify your email ID. Once you verified you can login with your User ID and Password

[Take me to login](#)



New to IBS? [Register here](#)

IBS SCORE COMPLIANCE SYSTEM (ISCS)

Welcome to IBS SCORE COMPLIANCE SYSTEM

- About ISCS
- Who can register with ISCS
- Am I eligible? Check here
- Announcements

Login

User ID (NRIC / Passport Number) *
 820706085798

Password *

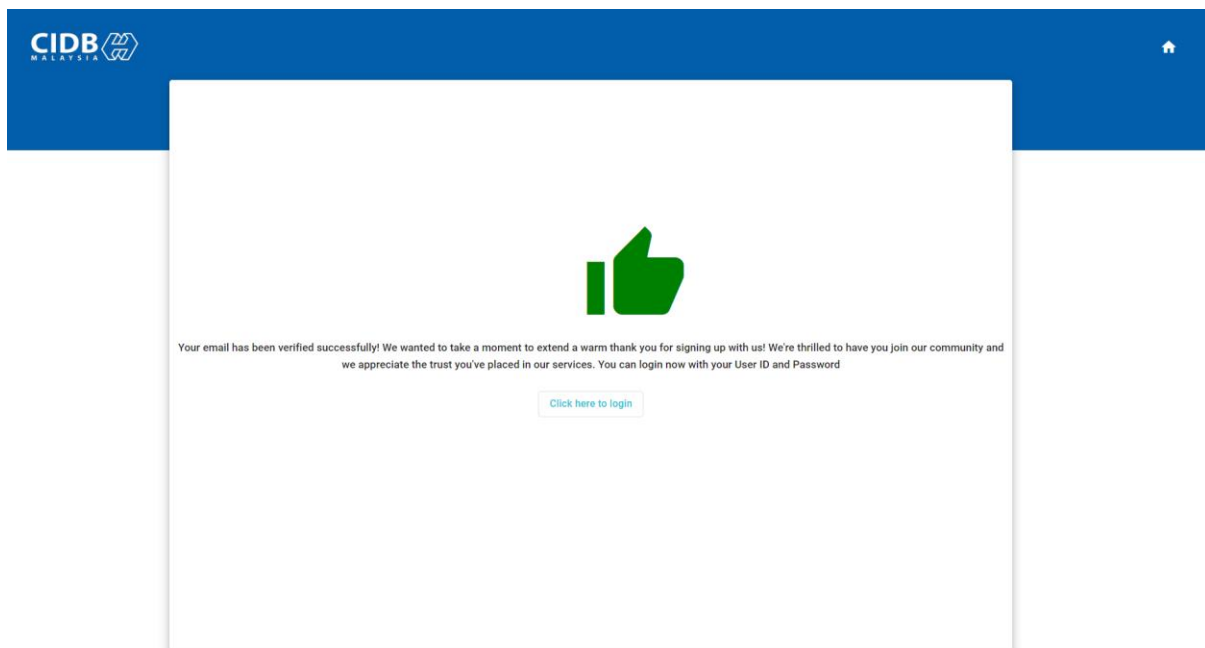
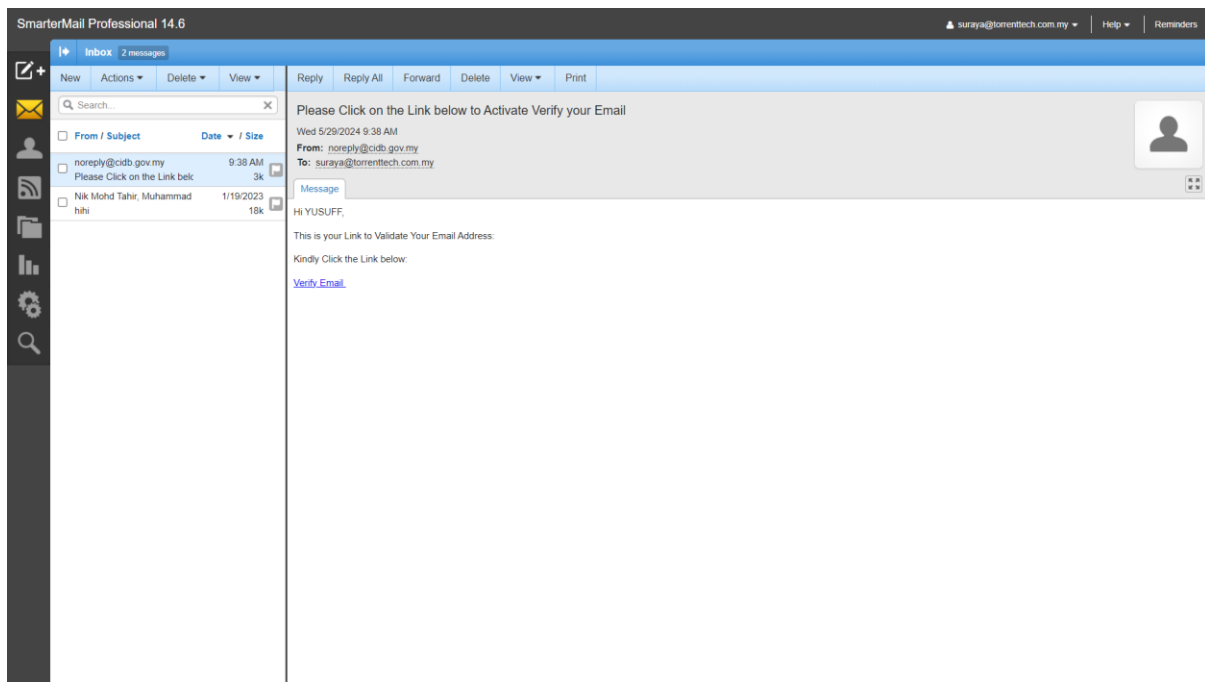
[Login](#)

Choose any of the options below, if you are not sure if your current UserID or Password is correct

Confirmation

Kindly verify your email ID to use your account

[Okay](#)
[Resend verification link](#)



4.3 User Login Interface

Once after a successful signup, user can login with their registered user id and password. They need to do a submission for PSP Application.

Additionally, user can reset his password using forgot password option.



New to IBS?
Register here

IBS SCORE COMPLIANCE SYSTEM (ISCS)

Welcome to IBS SCORE COMPLIANCE SYSTEM

- About ISCS
- Who can register with ISCS
- Am I eligible? Check here
- Announcements

Login

User ID (NRIC / Passport Number) *

Password *

Login

Choose any of the options below, if you are not sure if your current UserID or Password can be used.

- Check if my User ID exists
- Recover my User ID
- Forgot Password?



IBS SCORE COMPLIANCE SYSTEM (ISCS)

Dashboard
Application
Application

Hello SEBASTIAN ALEX! Please complete your PSP Registration

Profession Details

We need atleast one Profession Detail information

Profession
Engineer
Professional Registered No.
BEST78

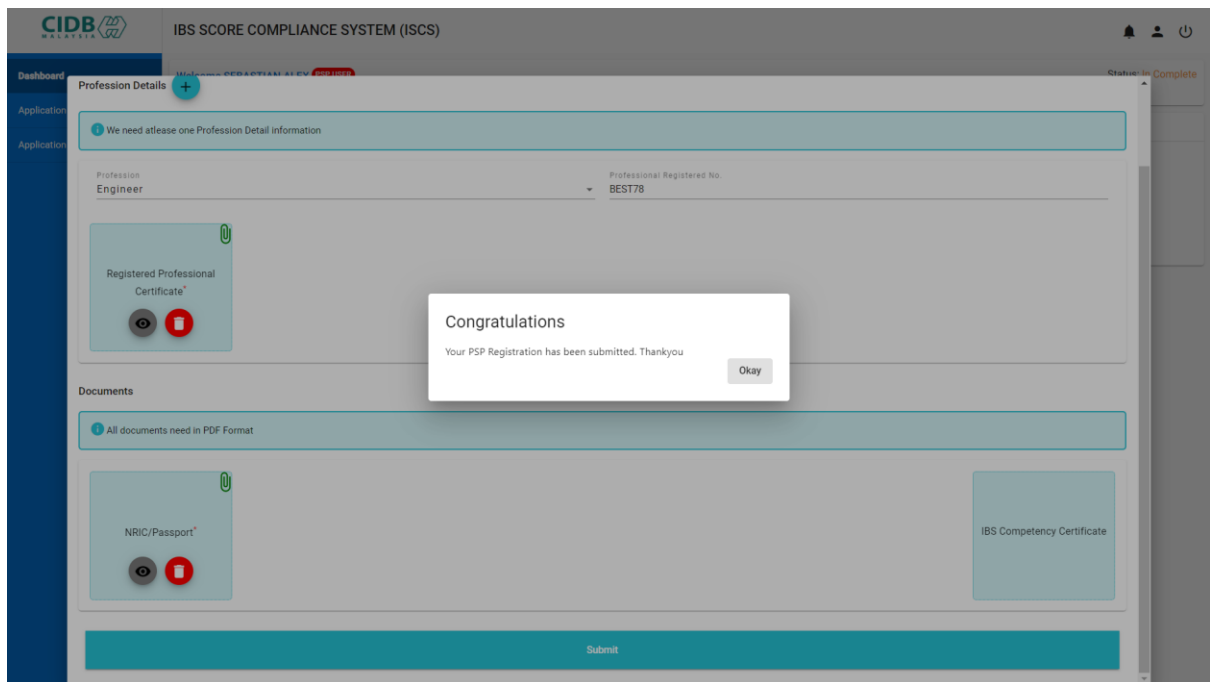
Registered Professional Certificate*

Documents

All documents need in PDF Format

NRIC/Passport*
IBS Competency Certificate

Submit



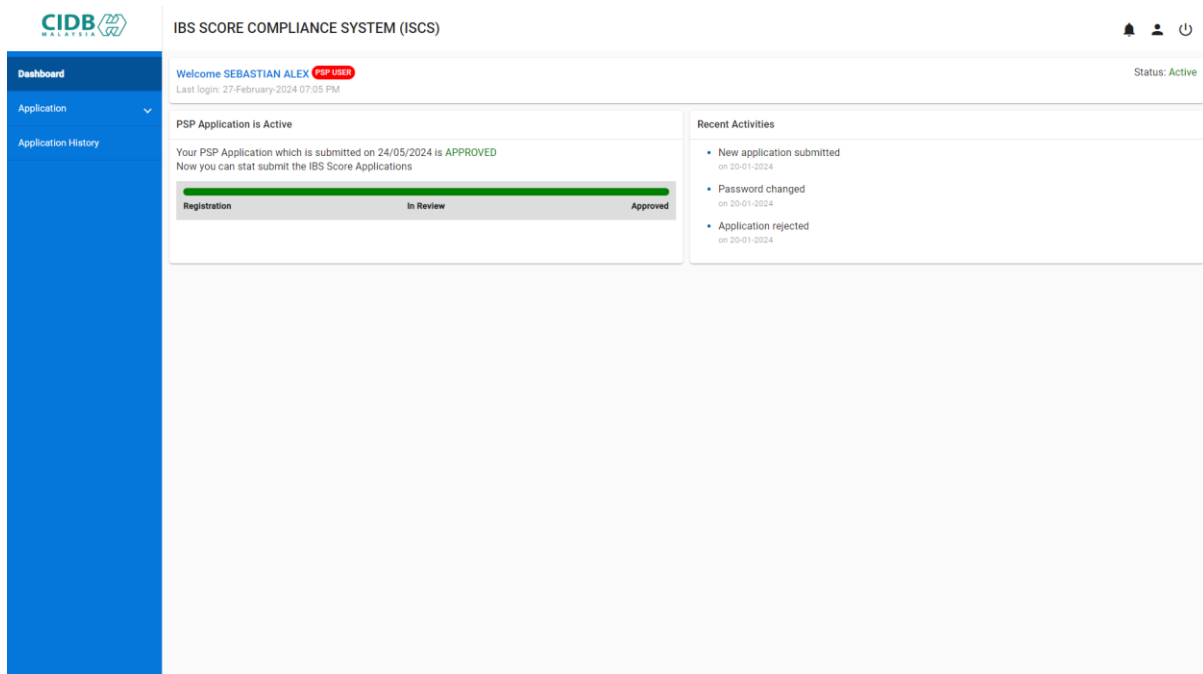
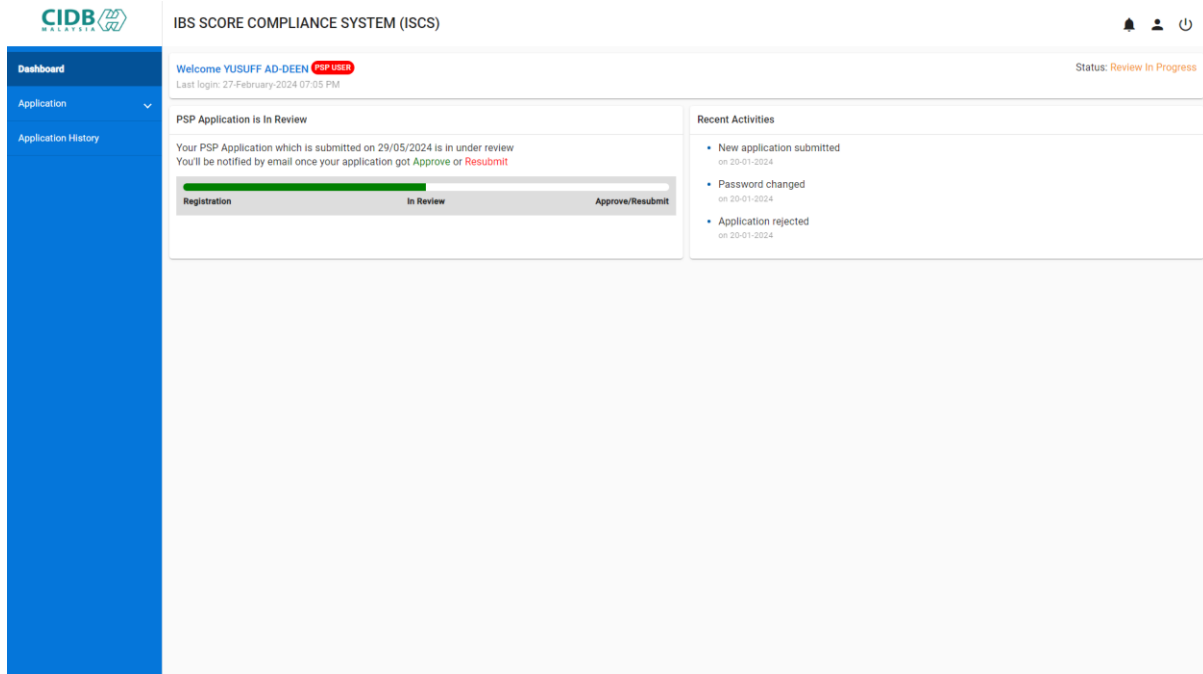
The screenshot displays the 'IBS SCORE COMPLIANCE SYSTEM (ISCS)' interface. A 'Profession Details' modal is open, showing a form with the following fields:

- Profession:** Engineer
- Professional Registered No.:** BEST78
- Registered Professional Certificate:** A field with a red 'X' icon, indicating an error.
- Documents:** A section with a note 'All documents need in PDF Format' and two upload areas:
 - NRIC/Passport:** A field with a red 'X' icon, indicating an error.
 - IBS Competency Certificate:** A field with a red 'X' icon, indicating an error.

A 'Submit' button is located at the bottom of the form. A 'Congratulations' modal is displayed in the center, stating: 'Your PSP Registration has been submitted. Thankyou'. An 'Okay' button is present on the modal.

4.3.1 PSP Landing Dashboard

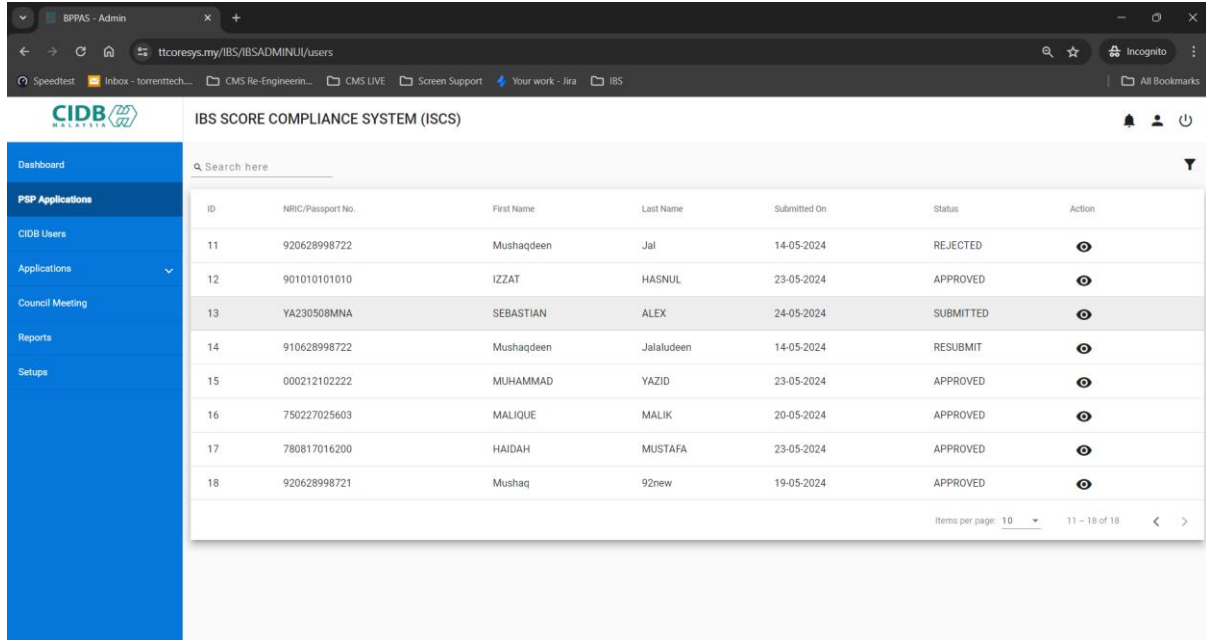
Dashboard showing Status in progress and after it get verified (Approved) Status as Active



4.4 Admin to Approve PSP Registration

In this login, admin can see the details and view the document submitted then process the application either it is Accept or Resubmit.

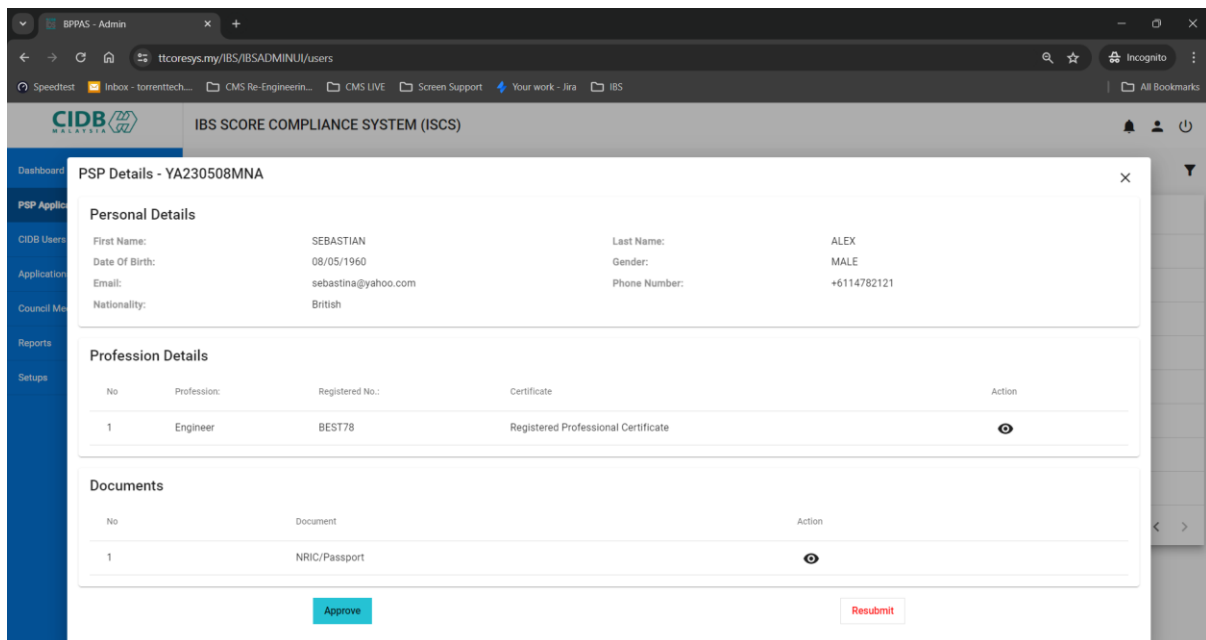
If resubmit, PSP will be notified to redo their application and submit again.



The screenshot shows the 'IBS SCORE COMPLIANCE SYSTEM (ISCS)' Admin Dashboard. The left sidebar contains navigation links: Dashboard, PSP Applications, CIDB Users, Applications, Council Meeting, Reports, and Setups. The main content area displays a table of PSP Applications with the following data:

ID	NRIC/Passport No.	First Name	Last Name	Submitted On	Status	Action
11	920628998722	Mushaadeen	Jal	14-05-2024	REJECTED	
12	901010101010	IZZAT	HASNUL	23-05-2024	APPROVED	
13	YA230508MNA	SEBASTIAN	ALEX	24-05-2024	SUBMITTED	
14	910628998722	Mushaadeen	Jalaludeen	14-05-2024	RESUBMIT	
15	000212102222	MUHAMMAD	YAZID	23-05-2024	APPROVED	
16	750227025603	MALIQUE	MALIK	20-05-2024	APPROVED	
17	780817016200	HAIDAH	MUSTAFA	23-05-2024	APPROVED	
18	920628998721	Mushaq	92new	19-05-2024	APPROVED	

At the bottom right of the table, it indicates 'Items per page: 10' and '11 - 18 of 18'.



The screenshot shows the 'PSP Details - YA230508MNA' modal. It contains the following sections:

Personal Details

First Name:	SEBASTIAN	Last Name:	ALEX
Date Of Birth:	08/05/1960	Gender:	MALE
Email:	sebastina@yahoo.com	Phone Number:	+6114782121
Nationality:	British		

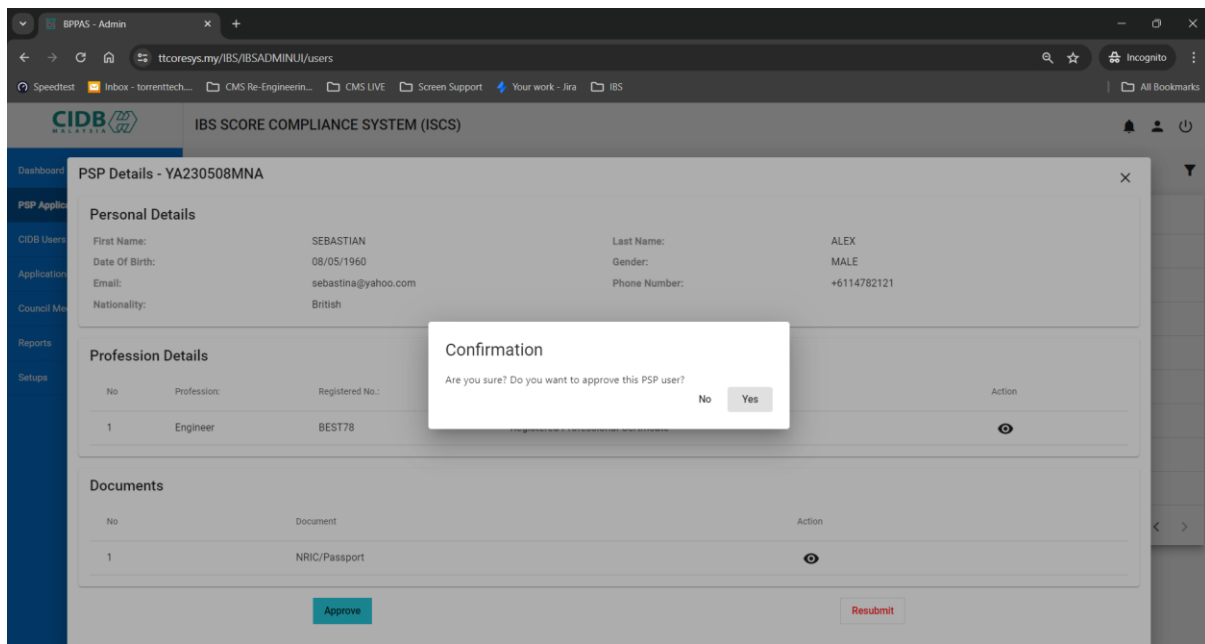
Profession Details

No	Profession	Registered No.	Certificate	Action
1	Engineer	BEST78	Registered Professional Certificate	

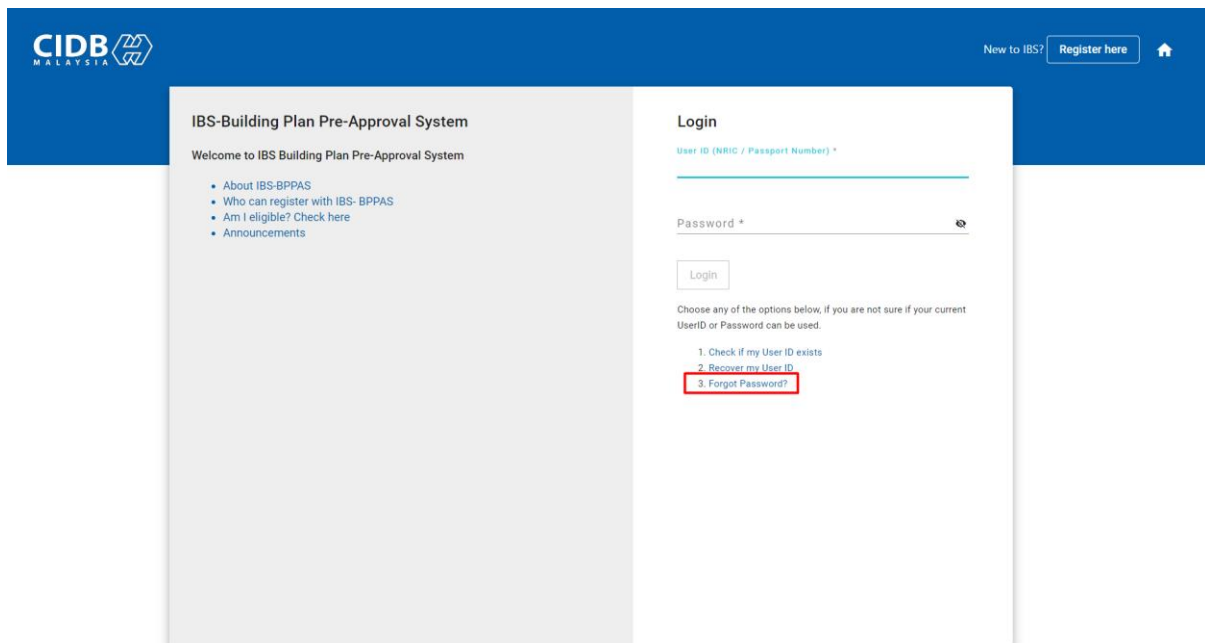
Documents

No	Document	Action
1	NRIC/Passport	

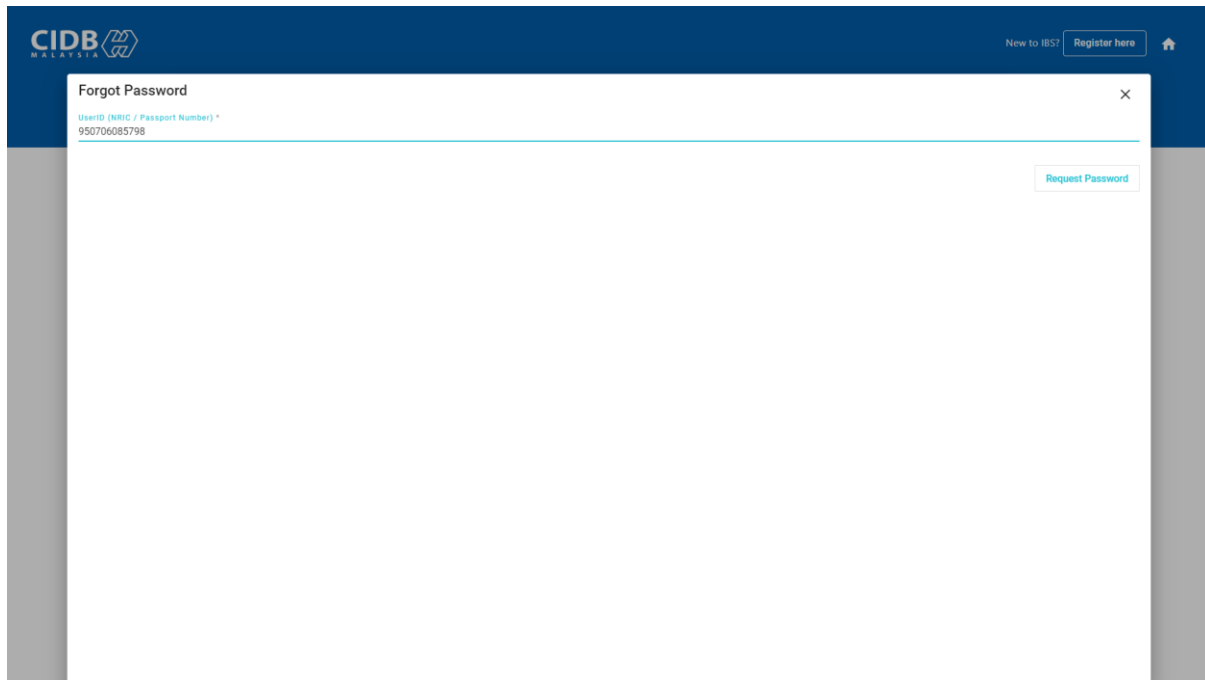
At the bottom of the modal, there are two buttons: 'Approve' (blue) and 'Resubmit' (red).



4.5 PSP Forgot Password Screen

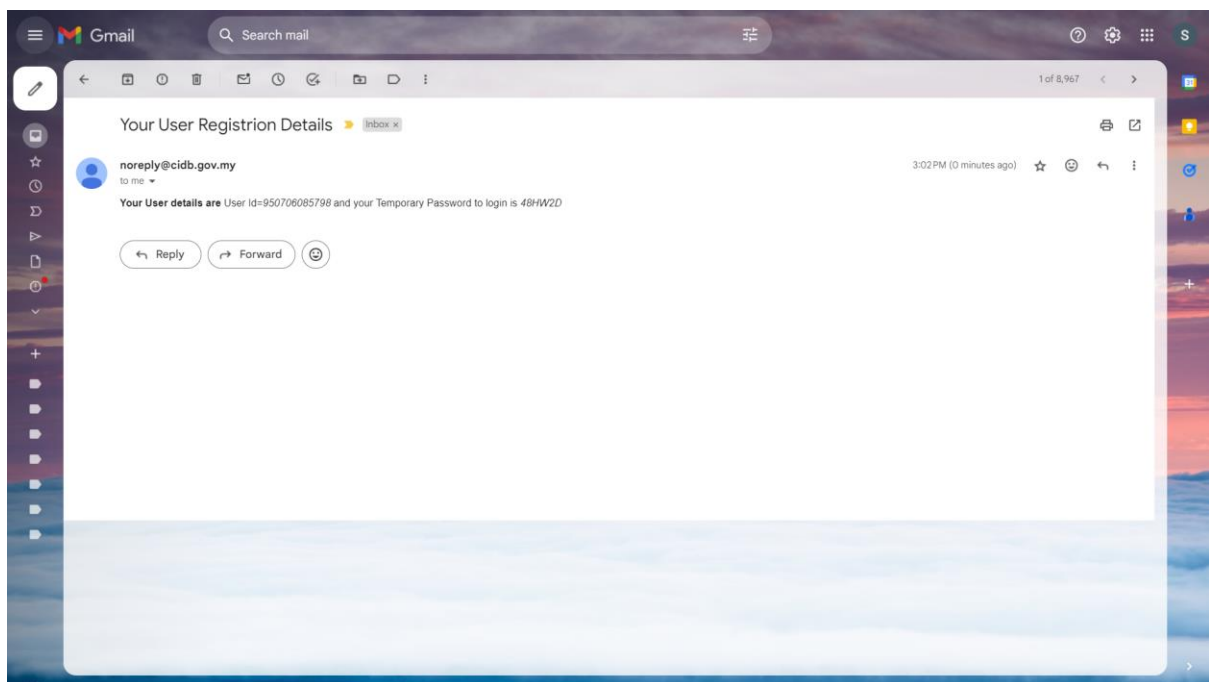
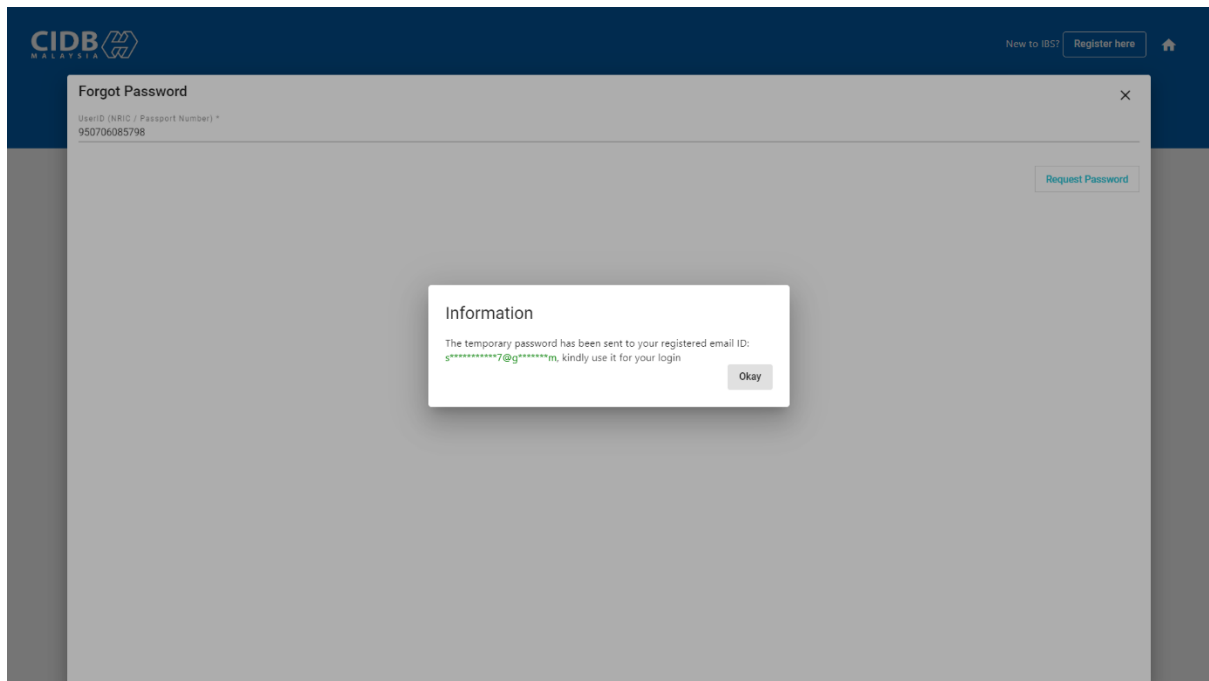


4.5.1 Request Password



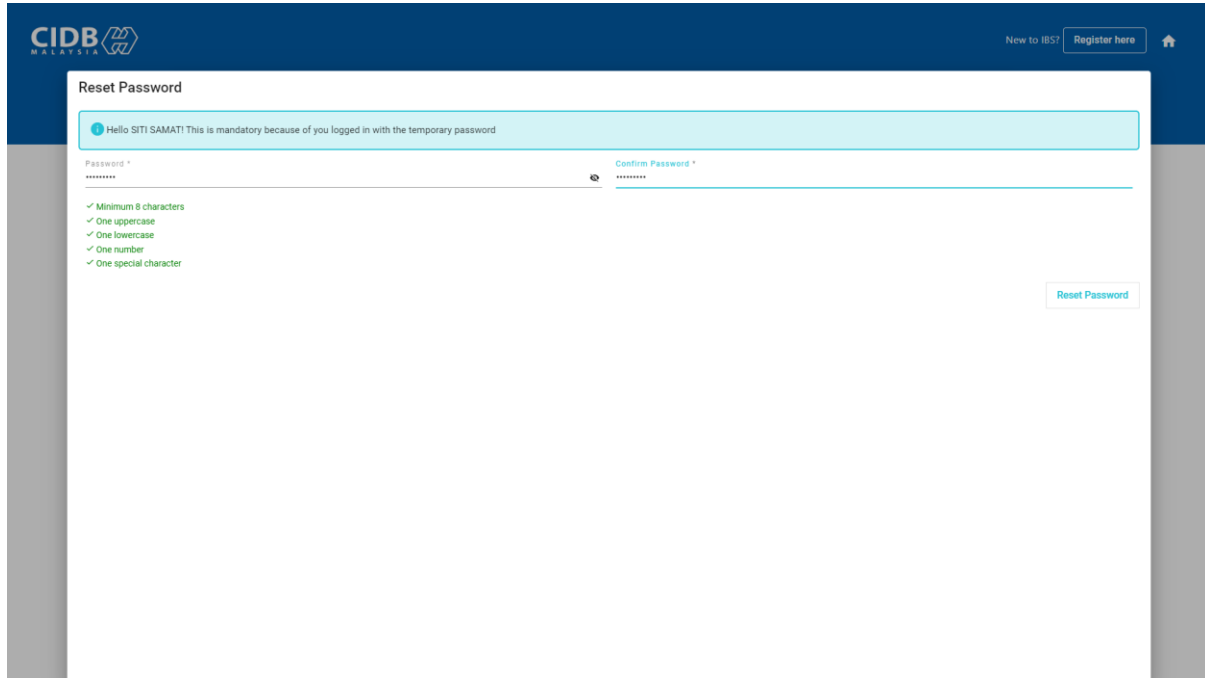
4.5.2 Temporary Password given

The temporary Password will be given through email which they have entered previously during login.

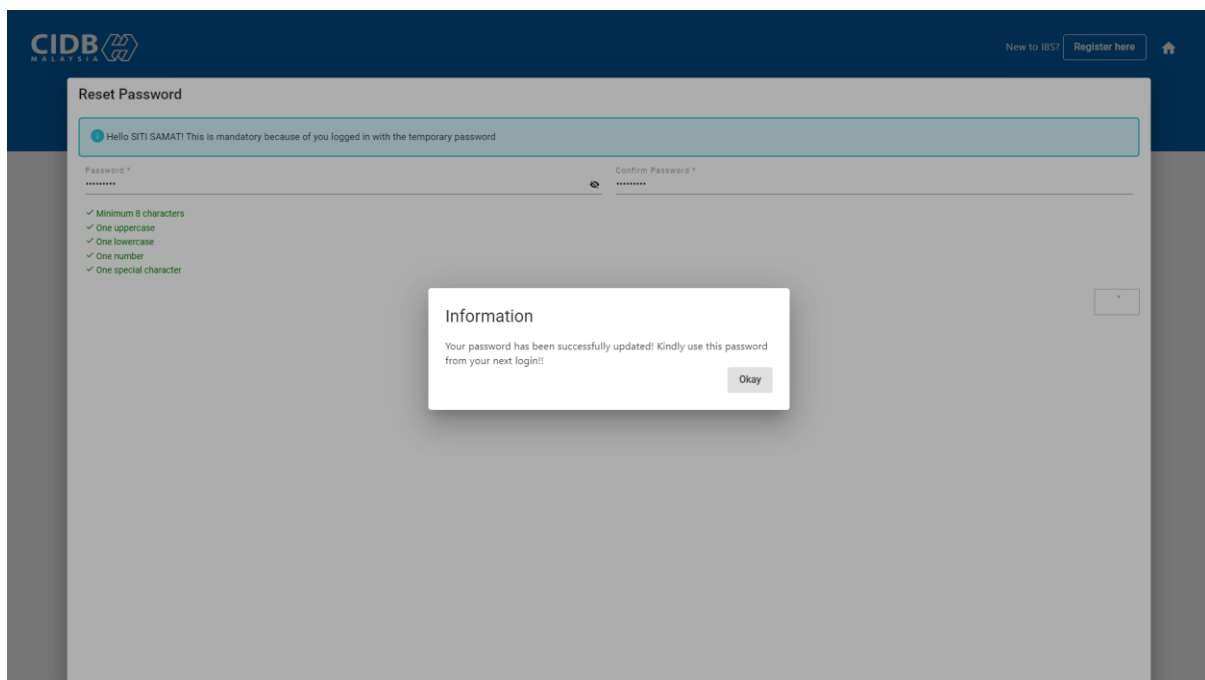


4.5.3 Reset Password

After login using the temporary password, user able to reset their own password. And Pop-up Message will appear to inform that password successfully updated



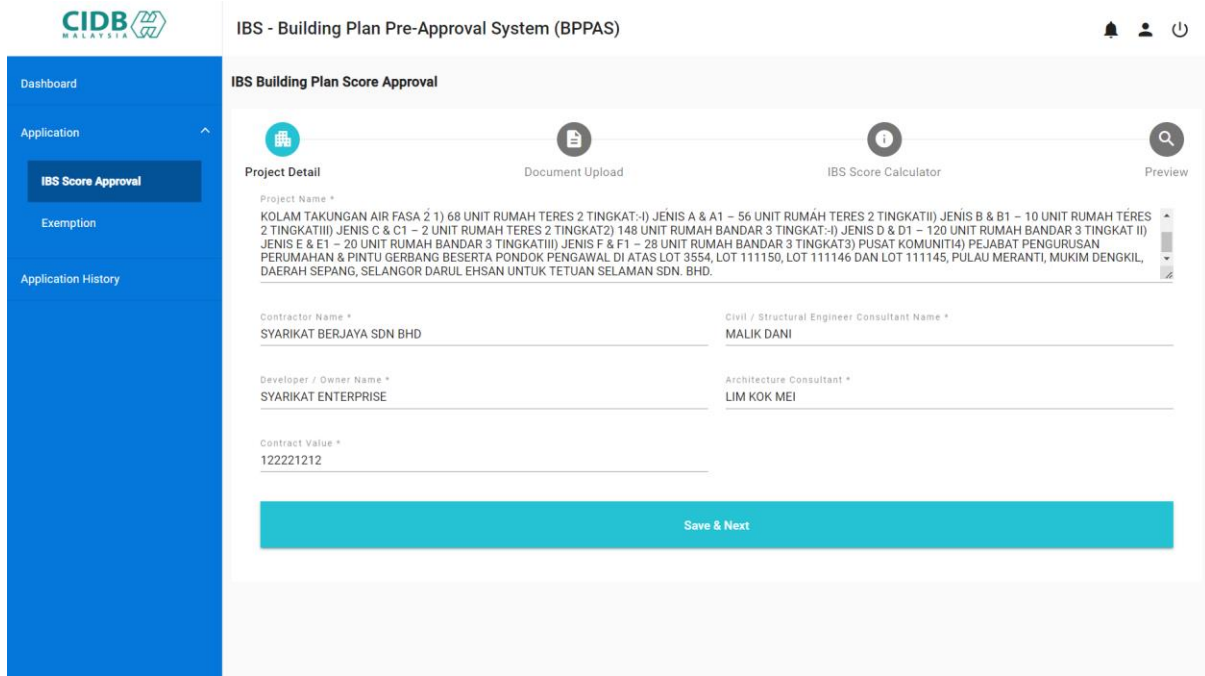
The wireframe shows a 'Reset Password' form within a dark blue header. The header contains the CIDB MALAYSIA logo on the left, and 'New to IBS?' with a 'Register here' button and a home icon on the right. The form itself has a title 'Reset Password' and a light blue message box stating: 'Hello SITI SAMATI! This is mandatory because of you logged in with the temporary password'. Below this are two input fields: 'Password *' and 'Confirm Password *', both masked with dots. To the left of the 'Password *' field is a list of password requirements, each preceded by a green checkmark: 'Minimum 8 characters', 'One uppercase', 'One lowercase', 'One number', and 'One special character'. A 'Reset Password' button is located to the right of the 'Confirm Password *' field.



This wireframe is identical to the one above, but includes a white 'Information' pop-up dialog box in the center. The dialog box has the title 'Information' and the message: 'Your password has been successfully updated! Kindly use this password from your next login!!'. An 'Okay' button is located at the bottom right of the dialog box. The background of the form is dimmed to indicate the pop-up is active.

4.6 IBS SCORE VERIFICATION

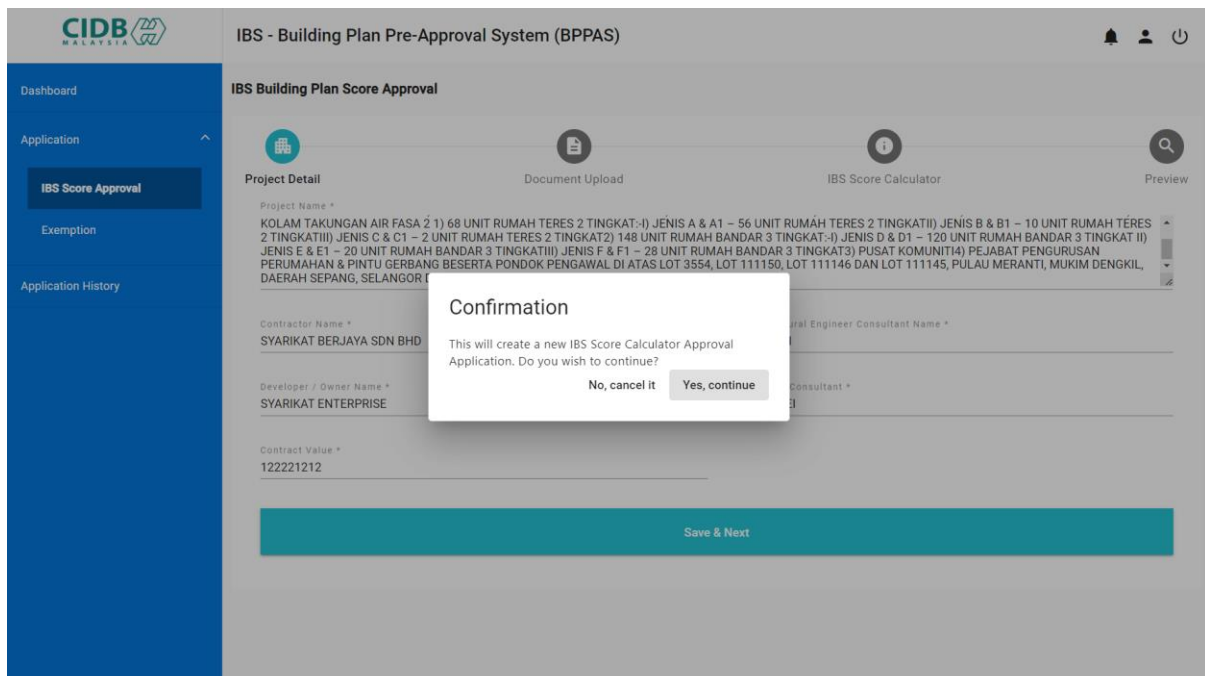
4.6.1 Project Detail



The screenshot shows the 'Project Detail' form in the BPPAS system. The form is part of the 'IBS Building Plan Score Approval' process. It includes a sidebar with navigation options: Dashboard, Application, IBS Score Approval (selected), Exemption, and Application History. The main form area has a header with the CIDB logo and the title 'IBS - Building Plan Pre-Approval System (BPPAS)'. Below the header, there are four tabs: Project Detail (selected), Document Upload, IBS Score Calculator, and Preview. The Project Detail form contains the following fields:

- Project Name ***: KOLAM TAKUNGAN AIR FASA 2 1) 68 UNIT RUMAH TERES 2 TINGKAT-I) JENIS A & A1 - 56 UNIT RUMAH TERES 2 TINGKAT-II) JENIS B & B1 - 10 UNIT RUMAH TERES 2 TINGKAT-III) JENIS C & C1 - 2 UNIT RUMAH TERES 2 TINGKAT-2) 148 UNIT RUMAH BANDAR 3 TINGKAT-I) JENIS D & D1 - 120 UNIT RUMAH BANDAR 3 TINGKAT II) JENIS E & E1 - 20 UNIT RUMAH BANDAR 3 TINGKAT-III) JENIS F & F1 - 28 UNIT RUMAH BANDAR 3 TINGKAT-3) PUSAT KOMUNITI4) PEJABAT PENGURUSAN PERUMAHAN & PINTU GERBANG BESERTA PONDOK PENGAWAL DI ATAS LOT 3554, LOT 111150, LOT 111146 DAN LOT 111145, PULAU MERANTI, MUKIM DENGKIL, DAERAH SEPANG, SELANGOR DARUL EHSAN UNTUK TETUAN SELAMAN SDN. BHD.
- Contractor Name ***: SYARIKAT BERJAYA SDN BHD
- Civil / Structural Engineer Consultant Name ***: MALIK DANI
- Developer / Owner Name ***: SYARIKAT ENTERPRISE
- Architecture Consultant ***: LIM KOK MEI
- Contract Value ***: 122221212

At the bottom of the form, there is a large blue button labeled 'Save & Next'.



This screenshot shows the same 'Project Detail' form as above, but with a 'Confirmation' dialog box overlaid. The dialog box contains the following text:

Confirmation

This will create a new IBS Score Calculator Approval Application. Do you wish to continue?

At the bottom of the dialog box, there are two buttons: 'No, cancel it' and 'Yes, continue'.

4.6.2 Document Upload

- Dashboard
- Application
 - IBS Score Approval**
 - Exemption
- Application History

IBS Building Plan Score Approval
Application Reference No.: otBvQhx0
Application Start Date: 08-May-2024

Submission Due Date: 15-May-2024
Application Status: DRAFT

7 Days Left

Project Detail
Document Upload
IBS Score Calculator
Preview

All documents need in PDF Format

Project Plan DrawingFiles Attached: 1

Structural DrawingsFiles Attached: 1

Architectural DrawingsFiles Attached: 1

Section PlanFiles Attached: 1

Roof PlanFiles Attached: 2

Caption

Roof Plan 1

Choose File

PUSAT LATI...R (SRS).pdf

Caption

Roof Plan 2

Choose File

PUSAT LATI...R (SRS).pdf

Previous

Save & Next

4.6.3 IBS Score Calculator

- In this tab, details required are the building details and also the data usage.
- it split into 3 Part which are Structure System, Wall System and Other Simplified Solution

- Dashboard
- Application
 - IBS Score Approval**
 - Exemption
- Application History

IBS SCORE COMPLIANCE SYSTEM (ISCS)
Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024
Application Status: DRAFT

7 Days Left

Project Detail
Document Upload
IBS Score Calculator
Preview

You can add more than one building structure and can apply IBS Score Calculator approval for each structure.

Building Details

Block Name *

Category *

Type *

Selection *

Category is required

Selection is required

Clear

Add Building

No	Block Name	Category	Type	Selection	Area(m2)	Coverage	IBS Score Building	IBS Score Project	Action
1	PODIUM AREA	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	0	0	0	0	START IBS CALCULATOR
Total					0	0	0	0	

Previous

Save & Next

Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024
Submission Due Date: 30-May-2024
Application Status: DRAFT

Days Left

Dashboard

Application

IBS Score

Example

Application

IBS Calculator for PODIUM AREA

PART 1: STRUCTURAL SYSTEM PART 2: WALL SYSTEM PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS SUMMARY

Structure System

ADD STRUCTURE

No	Columns & Beam	Slab	Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
Sub Total			0					0	

Roof System

No	Roof	Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	-	0						

Grand Total

Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score
0	0	0	0	0	0

Save & Next

Structure Detail

Column & Beams / Walls

Slabs/ Flooring System

Area(m2)

Cancel Add Structure

Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024
Submission Due Date: 30-May-2024
Application Status: DRAFT

Days Left

Dashboard

Application

IBS Score

Example

Application

IBS Calculator for PODIUM AREA

PART 1: STRUCTURAL SYSTEM PART 2: WALL SYSTEM PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS SUMMARY

Structure System

ADD STRUCTURE

No	Columns & Beam	Slab	Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ columns and beams / load-bearing walls using reusable formwork system				0.5		0.5	20.67	
2	Prefabricated beams and in situ columns using reusable formwork system				0.4		0.4	3.26	
3	In situ columns and beams / load-bearing walls using reusable formwork system				0.5		0.5	0.25	
Sub Total					1.4		1.4	24.19	

Roof System

No	Roof	Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	-	0	0	0		0	0	

Grand Total

Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score
845.68	1	1.4	0	1.4	24.19

Cancel & Exit

Roof Detail

Roof

Area(m2)

0

Cancel Update Roof



Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024
Application Status: DRAFT

Days Left

Dashboard
 Application
 IBS Score
 Exemption
 Application

PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

ADD STRUCTURE

No	Columns & Beam	Slab	Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ columns and beams / load-bearing walls using reusable formwork system	Void	699.36	0.45	0.5	0	0.5	11.25	
2	In situ columns and beams / load-bearing walls using reusable formwork system	In situ concrete using reusable formwork system	137.616	0.089	0.3	0	0.3	1.34	
3	In situ columns and beams / load-bearing walls using reusable formwork system	Void	8.7	0.005	0.5	0	0.5	0.13	
Sub Total			845.676	0.54	1.3	0	1.3	12.71	

Roof System

No	Roof	Area(m2)	Coverage	IBS Factor	IBS Score	Action
1	Prefabricated roof trusses	708.06	0.456	1	22.8	

Grand Total

Area(m2)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score
1,553.74	1	2.3	0	2.3	35.51

Save & Next



Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024
Application Status: DRAFT

Days Left

Dashboard
 Application
 IBS Score
 Exemption
 Application

PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ concrete with a reusable formwork system	130.167	0.25	0.3	0	0.3	1.51	
2	Blockwork system						7.48	
Total							8.99	

X

IBS Calculator for PODIUM AREA
review

PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ concrete with a reusable formwork system	130.167	0.25	0.3	0	0.3	1.51	
2	Blockwork system						7.48	
Total							8.99	

X

Wall Detail
review

PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ concrete with a reusable formwork system	130.167	0.25	0.3	0	0.3	1.51	
2	Blockwork system						7.48	
Total							8.99	

X

Wall Detail
review

PART 1: STRUCTURAL SYSTEM
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SUMMARY

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Total							8.99	

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PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
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Wall Detail
review

PART 1: STRUCTURAL SYSTEM
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Total							8.99	

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Wall Detail
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Total							8.99	

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Total							8.99	

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Total							8.99	

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Wall Detail
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PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

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Total							8.99	

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Wall Detail
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PART 1: STRUCTURAL SYSTEM
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Total							8.99	

X

Wall Detail
review

PART 1: STRUCTURAL SYSTEM
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PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

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Total							8.99	

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Wall Detail
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PART 1: STRUCTURAL SYSTEM
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SUMMARY

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1	In situ concrete with a reusable formwork system	130.167	0.25	0.3	0	0.3	1.51	
2	Blockwork system						7.48	
Total							8.99	

X

Wall Detail
review

PART 1: STRUCTURAL SYSTEM
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SUMMARY

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ concrete with a reusable formwork system	130.167	0.25	0.3	0	0.3	1.51	
2	Blockwork system						7.48	
Total							8.99	

X

Wall Detail
review

PART 1: STRUCTURAL SYSTEM
PART 2: WALL SYSTEM
PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS
SUMMARY

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor
----	------	-----------	----------	------------



Application Reference No.: IBSAP240048

Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

Days Left

Dashboard

Application

IBS Score

Exemption

Application

IBS Calculator for PODIUM AREA

PART 1: STRUCTURAL SYSTEM

PART 2: WALL SYSTEM

PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS

SUMMARY

Wall System

ADD WALL

No	Wall	Length(m)	Coverage	IBS Factor	IBS Additional Factor	IBS Total Factor	IBS Score	Action
1	In situ concrete with a reusable formwork system	130.167	0.22	0.3	0	0.3	1.33	 
2	Blockwork system	386.88	0.66	0.5	0	0.5	6.59	 
3	Common brick walls	70	0.12	0	0	0	0	 
Total		587.047	1	0.8	0	0.8	7.92	

Back

Save & Next



Application Reference No.: IBSAP240048

Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

Days Left

Dashboard

Application

IBS Score

Exemption

Application

b) For a building of one [1] or two [2] storeys

I. Horizontal repetition of structural layout

NOS

☐

3

☒

6

6

3 Productivity Enhancing Solutions and Technology Adoption

MAX: 14

10

a) Simulation and Modelling

I. Building Information Modelling (BIM) Level1

Level1

☐

2

0

ii. Building Information Modelling (BIM) Level2 and above

Level2

☒

6

6

b) Digitalisation and Virtualisation

I. Augmented Reality & Virtualisation

Adopt

☐

1

0

ii. Artificial Intelligence

Adopt

☐

1

0

iii. Big Data and Predictive Analytics

Adopt

☐

1

0

iv. Blockchain

Adopt

☐

1

0

v. Cloud and Realtime Collaboration

Adopt

☒

1

1

vi. Internet of Things

Adopt

☐

1

0

c) Smart Construction

i. 3D Printing & Additive Manufacturing

Adopt

☐

1

0

ii. 3D Scanning and Photogrammetry

Adopt

☐

1

0

iii. Autonomous Construction

Adopt

☐

1

0

iv. Advanced Building Material

Adopt

☐

2

0

v. Prefabrication & Modular Construction

0

vi. Prefabricated Volumetric Module (PVM)

NOS

☐

3

☐

6

0

vii. Prefabricated staircase

NOS

☐

2

☐

4

0

viii. Usage of Prefabricated Mechanical, Electrical, Plumbing (MEP) systems

NOS

☐

2

☐

4

0

d) Other Enhancing Solutions

i. Usage of self-climbing working platform

Adopt

☐

2

0

ii. Usage of Modular Gridlines in drawings

NOS

☒

3

☐

6

3

Total

32

Back

Save & Next



Application Reference No.: IBSAP240048

Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

Days Left

Dashboard

Application

IBS Score Approval

Exemption

Application History

IBS Calculator for PODIUM AREA

PART 1: STRUCTURAL SYSTEM

PART 2: WALL SYSTEM

PART 3: OTHER SIMPLIFIED CONSTRUCTION SOLUTIONS

SUMMARY

Summary IBS Score Calculation			
Structural System (50)	Wall System (20)	Other Simplified Construction Method (30)	Total IBS Score
35.51	7.92	30	73.43

Back

Proceed to submit

- Once completed submit the score, button will show as green and can see the different between completed building and not yet started



IBS Building Plan Score Approval

Application Reference No.: IBSAP240048

Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

7 Days Left

Dashboard

Application

IBS Score Approval

Exemption

Application History

Project Detail

Document Upload

IBS Score Calculator

Preview

You can add more than one building structure and can apply IBS Score Calculator approval for each structure.

Building Details

Block Name *

Category *

Type *

Selection *

Category is required

Type is required

Selection is required

Clear

Add Building

No	Block Name	Category	Type	Selection	Area(m2)	Coverage	IBS Score Building	IBS Score Project	Action
1	PODIUM AREA	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	1,553.74	1	73.43	73.43	MODIFY IBS SCORE
2	BANGUNAN ID	Residential (landed/non landed housing)	Apartments/Serviced apartments/Quarters	Building With Walls	0	0	0	0	START IBS CALCULATOR
3	OPEN HALL	Institutional and others	Open halls/Community halls	Building With Walls	0	0	0	0	START IBS CALCULATOR
Total					1,553.74	1		73.43	

Previous

Save & Next

Application Reference No.: IBSAP240048

Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

7

Days Left

1

Project Detail

2

Document Upload

3

IBS Score Calculator

4

Preview

i You can add more than one building structure and can apply IBS Score Calculator approval for each structure.

Building Details

Block Name *

Type is required

Category *

Category is required

Type *

Type is required

Selection *

Selection is required

Clear
Add Building

No	Block Name	Category	Type	Selection	Area(m2)	Coverage	IBS Score Building	IBS Score Project	Action
1	PODIUM AREA	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	1,553.74	0.035	73.43	2.59	MODIFY IBS SCORE
2	BANGUNAN ID	Residential (landed/non landed housing)	Apartments/Service apartments/Quarters	Building With Walls	42,285.1	0.958	85.14	81.6	MODIFY IBS SCORE
3	Open Hall	Institutional and others	Open halls/Community halls	Building Without Wall	278.9	0.006	72.5	0.46	MODIFY IBS SCORE
Total					44,117.74	1		84.64	

Previous

Save & Next

4.6.4 Preview

- In Preview tab, it is showing in one page all the details that have entered by PSP. Also here, required tick declaration whether it is the correct information and can proceed to submit. Confirmation message appear to confirm again the details



Dashboard
Application

IBS Score Approval

Exemption
Application History

IBS SCORE COMPLIANCE SYSTEM (ISCS)

IBS Building Plan Score Approval

Application Reference No.: IBSAP240048
Application Start Date: 23-May-2024

Submission Due Date: 30-May-2024

Application Status: DRAFT

7 Days Left

Project Detail

Document Upload

IBS Score Calculator

Preview

Please verify all your informations before you submit

Project Detail

Project Name:

CADANGAN PEMBANGUNAN BERCAMPUR 2 BLOK BANGUNAN 27 TINGKAT YANG MENDUNGI I. 1 TINGKAT SUB BASEMENT, II. 3 TINGKAT KOMPLEKS PERNIAGAAN, MUSOLLA DAN DEWAN SERBAGUNA, III. 5 TINGKAT TEMPAT LETAK KERETA, IV. 19 TINGKAT SERVIS APARTMENT SERTA PENT HOUSE YANG BERJUMLAH 461 UNIT DI ATAS LOT 160 (PT 2341), LOT 165 (PT 1790) DAN LOT 167 (PT 1) DAN SEBAHAGIAN TANAH KERAJAAN, JALAN KOLAM AIR, DAERAH KOTA SETAR, KEDAH DARUL AMAN.

Contractor Value:

RM 32242424

Architecture Consultant:

RD TECHNOLOGY

Contractor Name:

SYARIKAT BERJAYA SDN BHD

Developer / Owner Name:

SYARIKAT ENTERPROSE

Civil / Structural Engineer Consultant Name:

BEESTEEL ENGTECH SDN BHD

Documents

Project Plan Drawing

No	File name	Document name	File Size	Action
1	Project Plan Drawing 1	MONITORING MODULE (SRS)	3.49 MB	

Structural Drawings

No	File name	Document name	File Size	Action
1	Architectural Drawing 1	PUSAT LATIHAN BERTIAULIAH KUNTI HAK UK DAN PELAKSANAAN KURSUS PENGURUSAN KONTRAKTOR (SRS)	2.97 MB	

Section Plan

No	File name	Document name	File Size	Action
1	Section plan 1	PENDAFTARAN PENYEDIA PROGRAM MATA CCD (SRS)	1.86 MB	

Roof Plan

No	File name	Document name	File Size	Action
1	Roof Plan 1	PENGURUSAN BANK SOALAN (SRS)	2.3 MB	

IBS Score Calculator Summary

No	Block Name	Category	Type	Selection	Area(m2)	Coverage	IBS Score	IBS Score Project
1	PODIUM AREA	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	1,553.74	0.035	73.43	2.59
2	BANGUNAN ID	Residential (landed/non landed housing)	Apartments/Service apartments/Quarters	Building With Walls	42,285.1	0.958	85.14	81.6
3	Open Hall	Institutional and others	Open halls/Community halls	Building Without Wall	278.9	0.006	72.5	0.46
Total					44,117.74	1		84.64

Declaration

☒ I confirm and acknowledge that all information and documents included with this application are true. I understand that if I provide any false or invalid documents, any appropriate action may be imposed including action on this application.

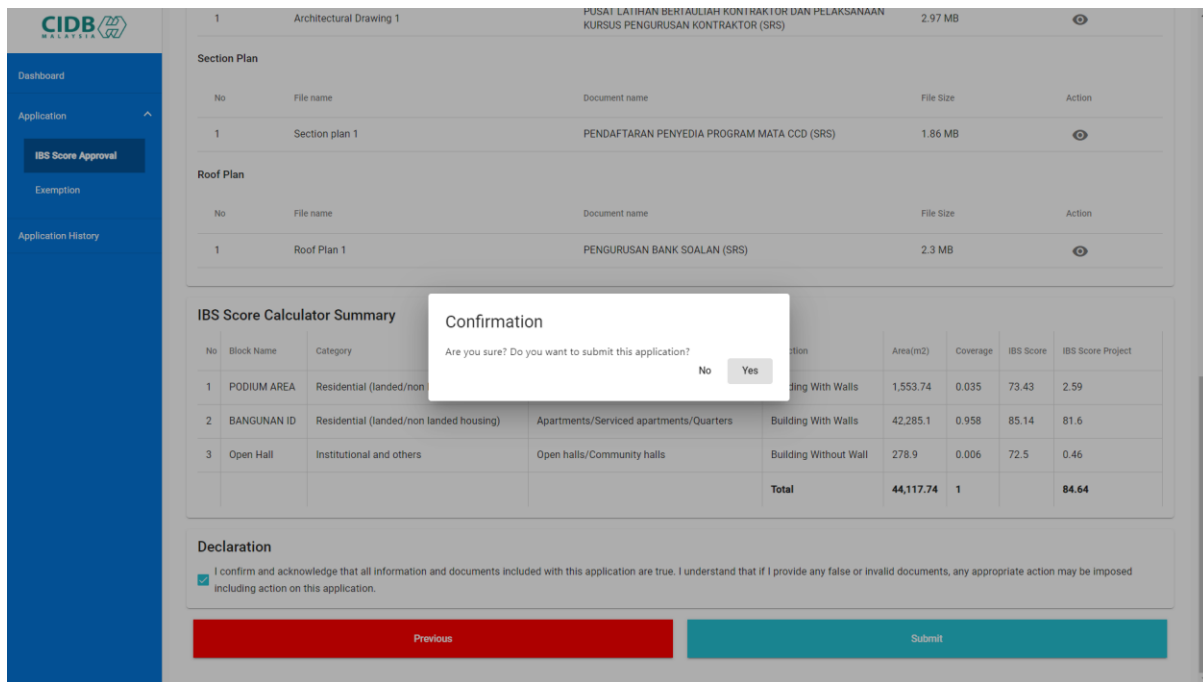
Previous

Submit

pg. 28

TORRENT TECHNOLOGY SDN. BHD.

CIDB MALAYSIA



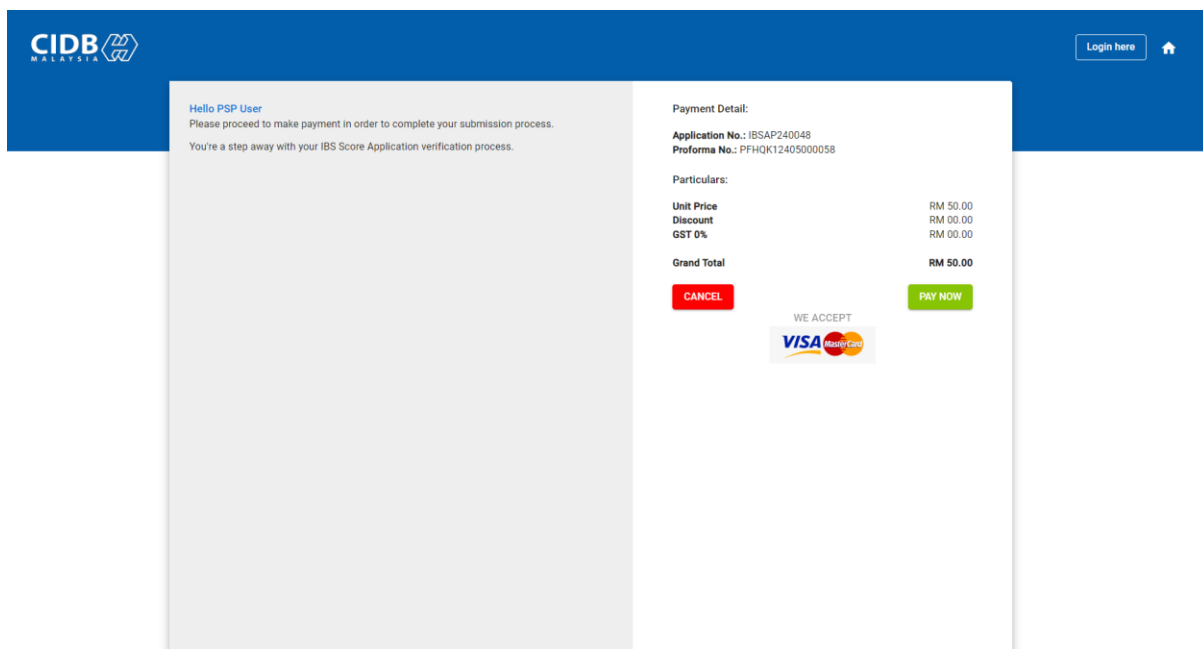
The screenshot shows the 'IBS Score Calculator Summary' page. A 'Confirmation' modal is displayed in the center, asking 'Are you sure? Do you want to submit this application?' with 'No' and 'Yes' buttons. The background page includes a sidebar with 'Dashboard', 'Application', 'IBS Score Approval', 'Exemption', and 'Application History'. The main content area has a table for 'Section Plan' and 'Roof Plan' uploads, and a summary table below.

No	Block Name	Category	Area(m2)	Coverage	IBS Score	IBS Score Project
1	PODIUM AREA	Residential (landed/non)	1,553.74	0.035	73.43	2.59
2	BANGUNAN ID	Residential (landed/non landed housing)	42,285.1	0.958	85.14	81.6
3	Open Hall	Institutional and others	278.9	0.006	72.5	0.46
Total			44,117.74	1		84.64

Below the table is a 'Declaration' section with a checkbox and text: 'I confirm and acknowledge that all information and documents included with this application are true. I understand that if I provide any false or invalid documents, any appropriate action may be imposed including action on this application.' At the bottom are 'Previous' and 'Submit' buttons.

4.6.5 Payment Gateway

After submit application, User need to make payment first to complete the proses of submission



The screenshot shows the 'Payment Gateway' page. It features a blue header with the CIDB MALAYSIA logo and a 'Login here' button. The main content area has a message: 'Hello PSP User. Please proceed to make payment in order to complete your submission process. You're a step away with your IBS Score Application verification process.' To the right is a 'Payment Detail' section with the following information:

Payment Detail:
Application No.: IBSAP240048
Proforma No.: PFHQK12405000058

Particulars:

Unit Price	RM 50.00
Discount	RM 00.00
GST 0%	RM 00.00
Grand Total	RM 50.00

Below the table are 'CANCEL' and 'PAY NOW' buttons. At the bottom, it says 'WE ACCEPT' followed by the VISA and MasterCard logos.

PROFORMA INVOICE					
SITI SAMAT			Proforma Invoice No : PFH0K12405000058 Proforma Invoice Date : 24/05/2024 Due Date : 31/05/2024 Reference No : ISAP240048 Receipt No :		
#	Description	Qty	Unit Price (RM)	Discount (RM)	Amount (RM)
1	FI KEBENARAN KHAS MEMASUKI TENDER (R11)	1	50.00	0.00	50.00
				Total (RM)	50.00
				Total Amount (RM)	50.00

***Remarks:**
 FFX (B2C) - Retail/Individual Account
 FFX (B2B1) - Corporate Account (min RM 1,000)
 CCX - Credit/Debit Card

Payment Option: -- Select --

[Back to Module](#)
[Proceed with Payment](#)

VIP1

< virtual internet payment >



Amount

MYR50.00

Bank List

Please Select a Bank

Customer Email

surayamat67@gmail.com

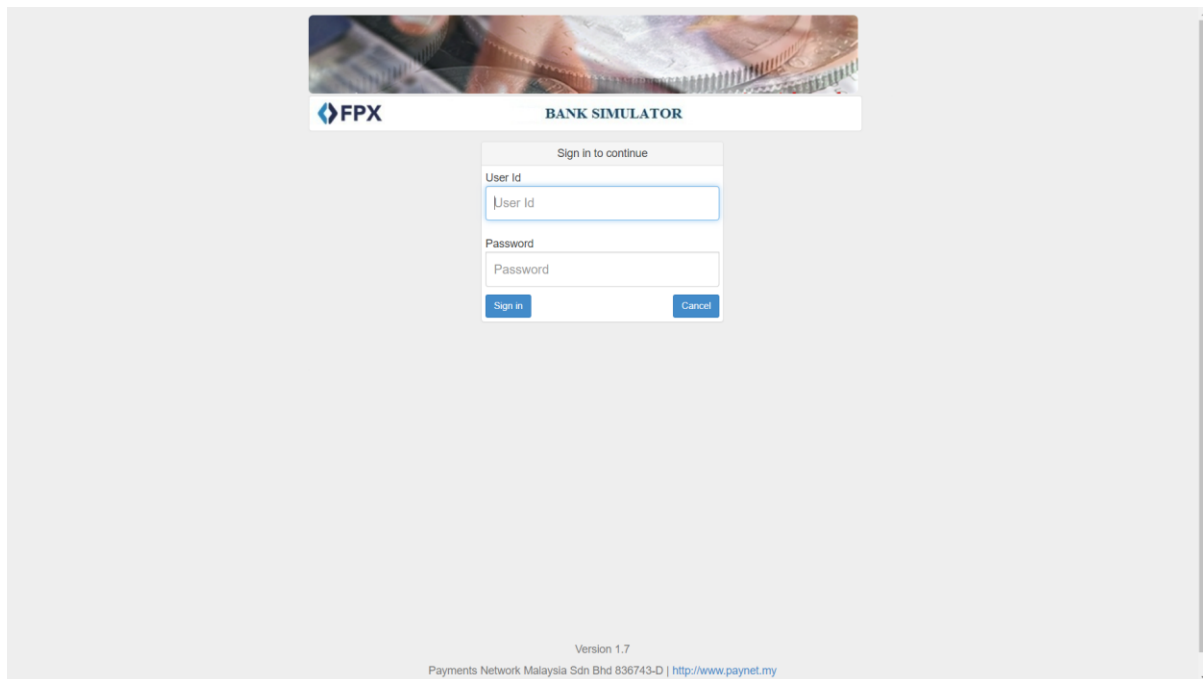
Back

Proceed

Terms & Conditions:

By clicking on the "Proceed" button, you agree to FPX's Terms & Conditions

Owned by CIDB Malaysia



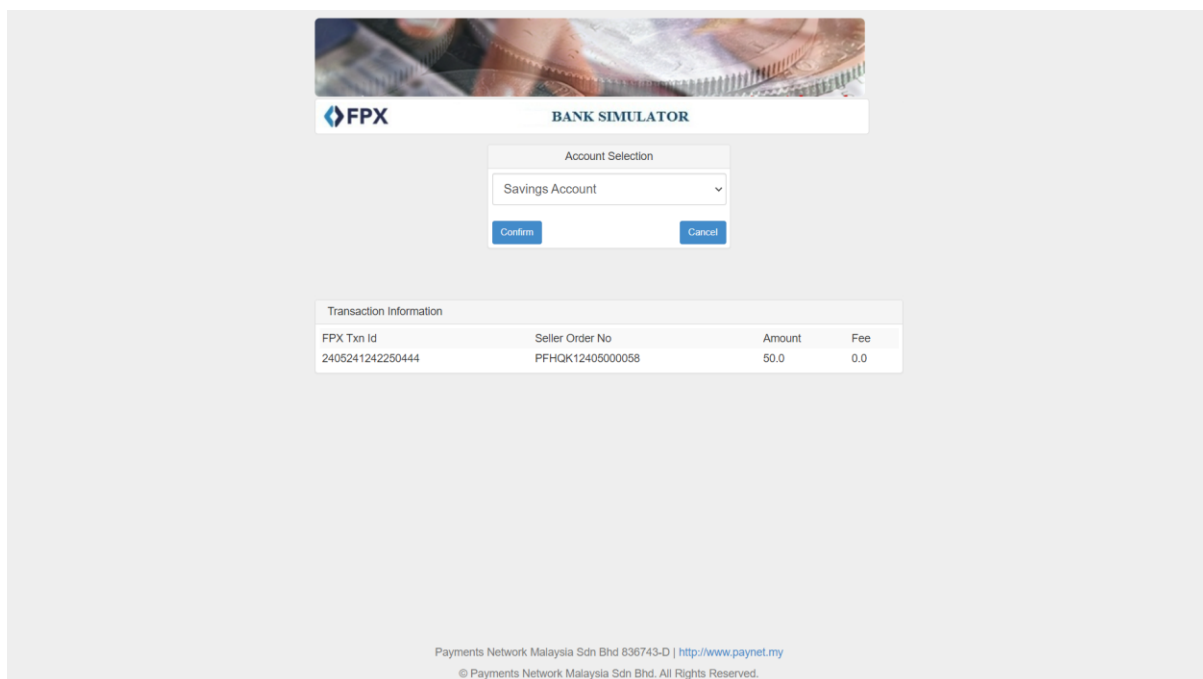
FPX **BANK SIMULATOR**

Sign in to continue

User Id

Password

Version 1.7
 Payments Network Malaysia Sdn Bhd 836743-D | <http://www.paynet.my>



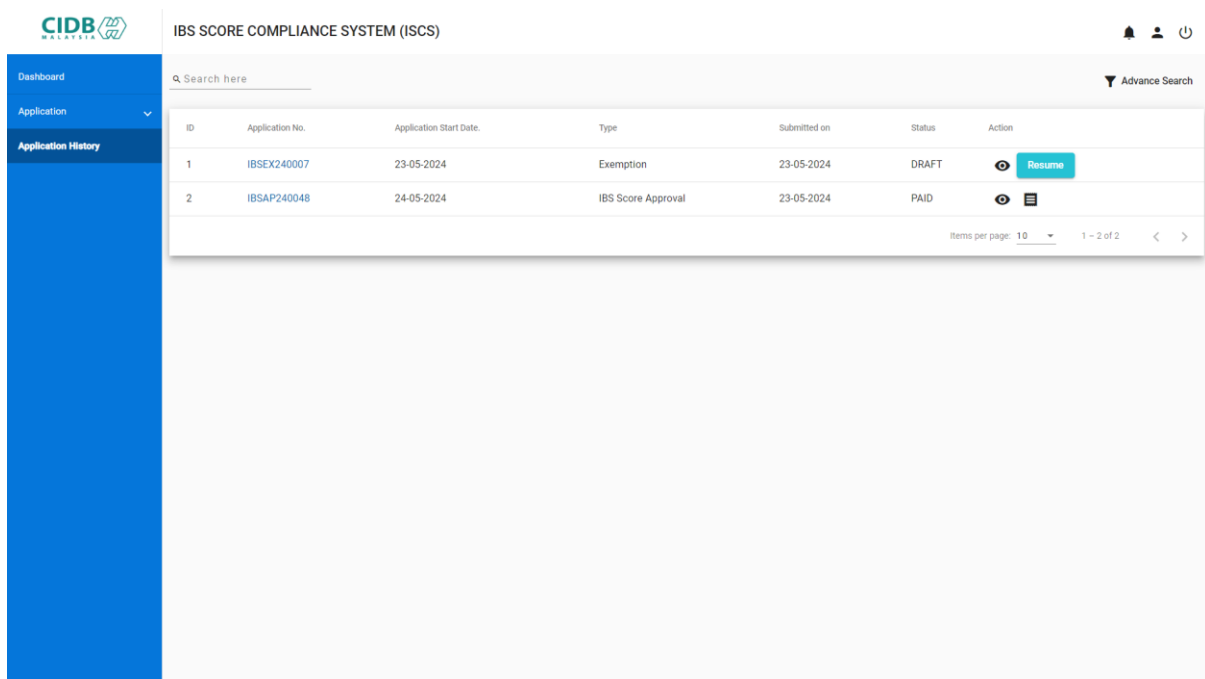
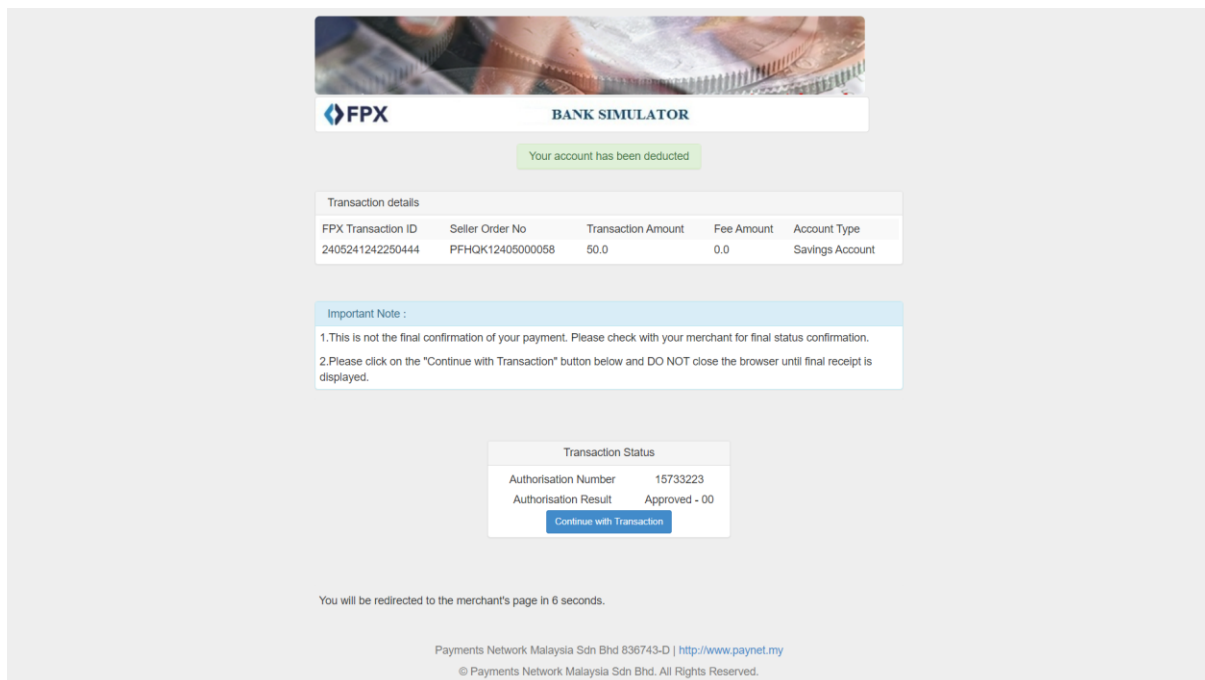
FPX **BANK SIMULATOR**

Account Selection

Savings Account ▼

Transaction Information			
FPX Txn Id	Seller Order No	Amount	Fee
2405241242250444	PFHQK12405000058	50.0	0.0

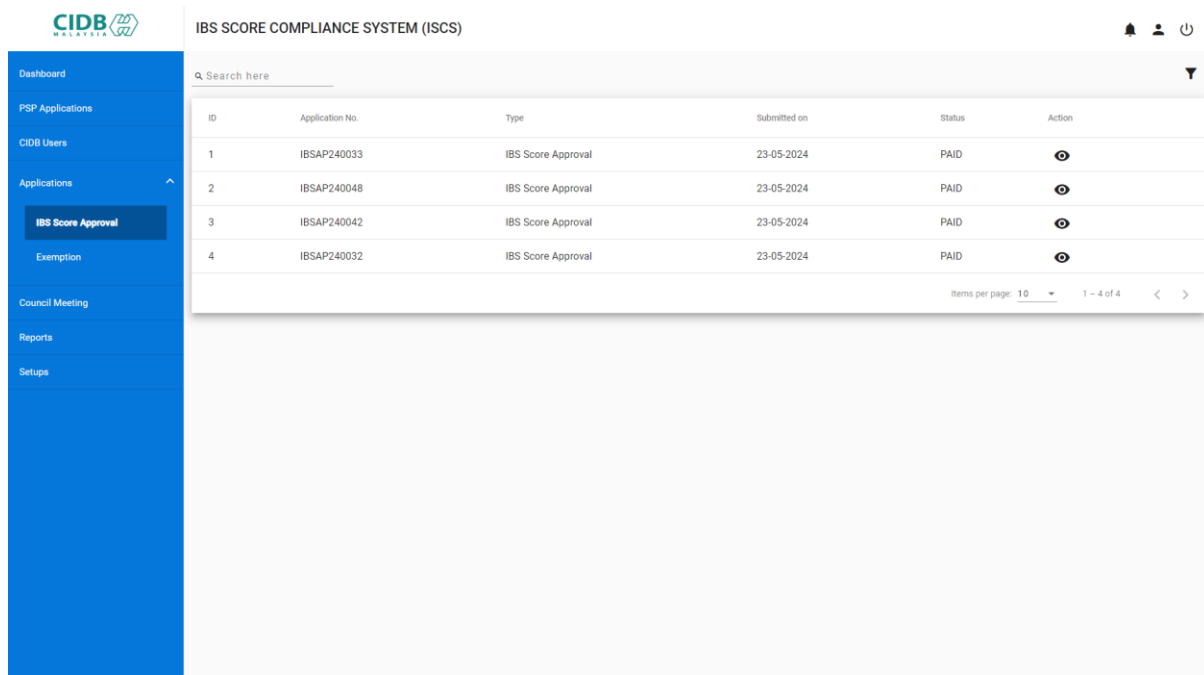
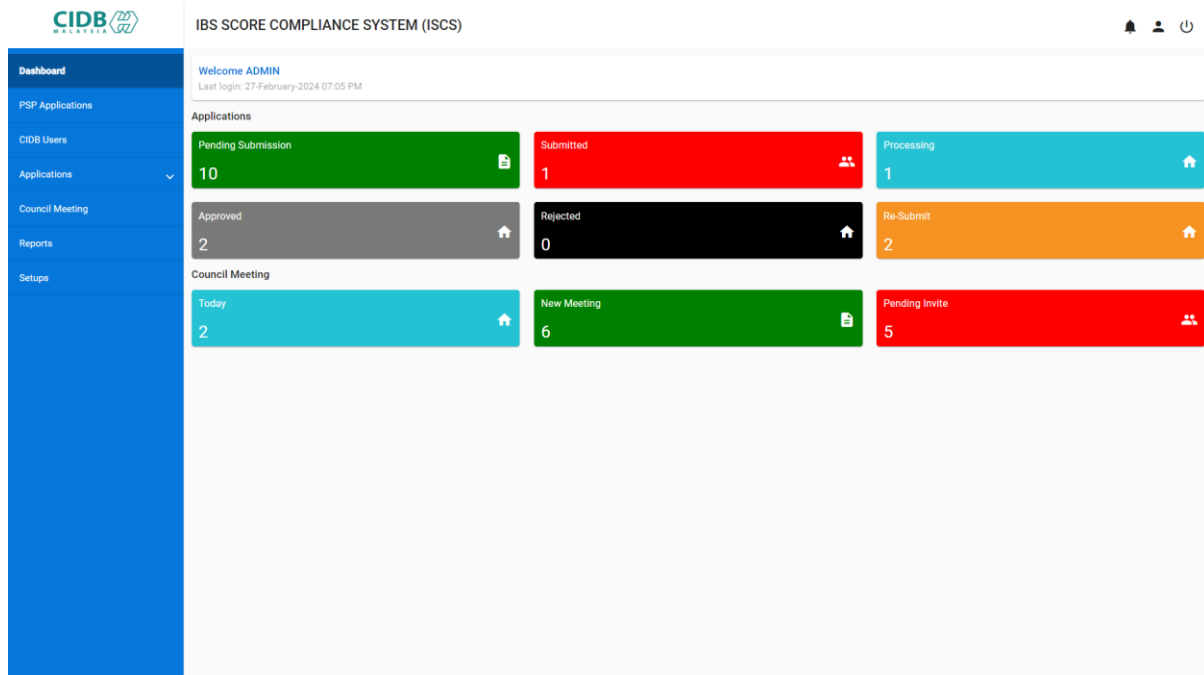
Payments Network Malaysia Sdn Bhd 836743-D | <http://www.paynet.my>
 © Payments Network Malaysia Sdn Bhd. All Rights Reserved.



4.7 Verifier 1

In verifier login, role verifier 1 is to check on the document part.

1. They able to see the application dashboard
2. They able to process the application by viewing the document and accept each document



CIDB MALAYSIA

IBS SCORE COMPLIANCE SYSTEM (ISCS)

Dashboard

PSP Application

CIDB Users

Application

IBS Score

Example

Council Meeting

Reports

Setup

IBS Building Plan Score Approval - IBSAP240048

Project Detail

Project Name:

CADANGAN PEMBANGUNAN BERCAMPUR 2 BLOK BANGUNAN 27 TINGKAT YANG MENGANDUNGI i. 1 TINGKAT SUB BASEMENT, ii. 3 TINGKAT KOMPLEKS PERNIAGAAN, MUSOLLA DAN DEWAN SERBAGUNA, iii. 5 TINGKAT TEMPAT LETAK KERETA, iv. 19 TINGKAT SERVIS APARTMENT SERTA PENT HOUSE YANG BERJUMLAH 461 UNIT DI ATAS LOT 160 (PT 2341), LOT 165 (PT 1790) DAN LOT 167 (PT 1) DAN SEBAHAGIAN TANAH KERAJAAN, JALAN KOLAM AIR, DAERAH KOTA SETAR, KEDAH DARUL AMAN.

Contractor Name:

SYARIKAT BERJAYA SDN BHD

Developer / Owner Name:

SYARIKAT ENTERPROSE

Civil / Structural Engineer Consultant Name:

BEESTEEL ENGTECH SDN BHD

Contractor Value:

RM 32242424

Architecture Consultant:

RD TECHNOLOGY

Documents

Project Plan Drawing

No	File name	Document name	File Size	Status	Action
1	Project Plan Drawing 1	MONITORING MODULE (SRS).PDF	3.49 MB	☒ Approve ☐ Resubmit	

Structural Drawings

No	File name	Document name	File Size	Status	Action
1	Structural Drawing 2	PENDAFTARAN PENYEDIA PROGRAM MATA CCD (SRS).PDF	1.86 MB	☒ Approve ☐ Resubmit	
2	Structural Drawing 1	TRAINING INDIVIDUAL ACCREDITATION (SRS).PDF	2.76 MB	☒ Approve ☐ Resubmit	

CIDB MALAYSIA

IBS SCORE COMPLIANCE SYSTEM (ISCS)

Dashboard

PSP Application

CIDB Users

Application

IBS Score

Example

Council Meeting

Reports

Setup

Architectural Drawings

No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 1.PDF	71.82 KB	☒ Approve ☐ Resubmit	

Section Plan

No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 3.PDF	74.87 KB	☒ Approve ☐ Resubmit	

Roof Plan

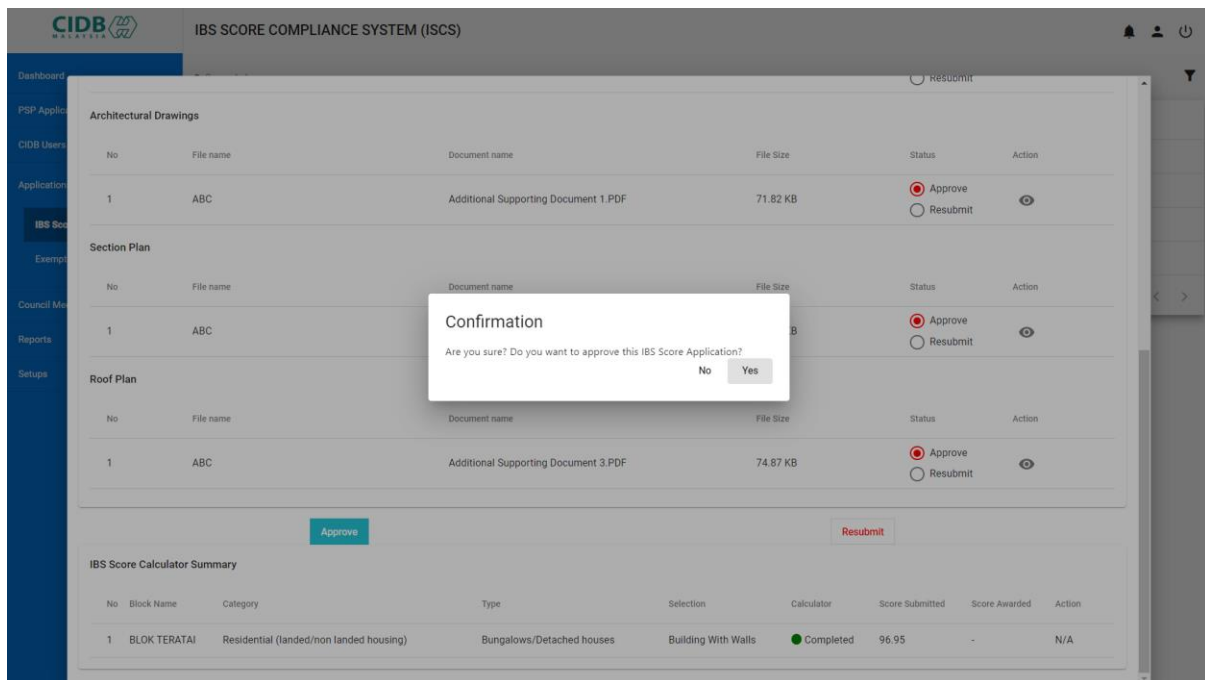
No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 3.PDF	74.87 KB	☒ Approve ☐ Resubmit	

Approve

Resubmit

IBS Score Calculator Summary

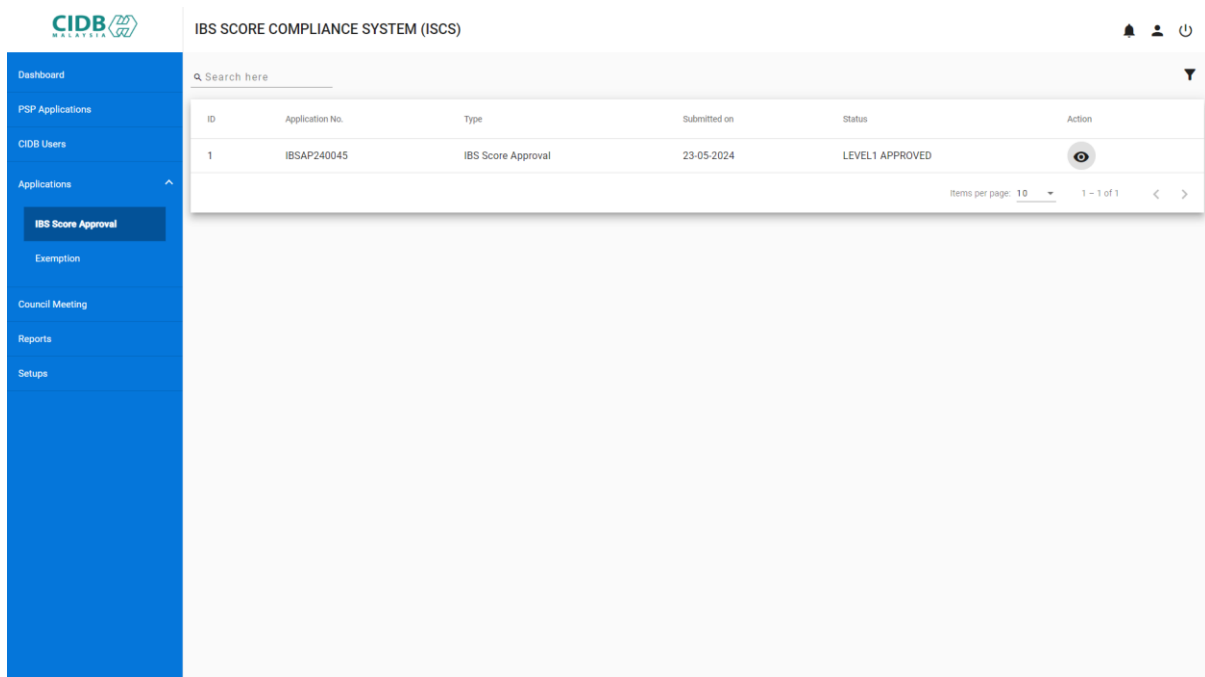
No	Block Name	Category	Type	Selection	Calculator	Score Submitted	Score Awarded	Action
1	BLOK TERATAI	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	Completed	96.95	-	N/A



4.8 Verifier 2

In verifier 2 login, will see the status by verifier 1

1. They able to process the application by viewing the document and Score calculator
2. Verifier 2 able to modify score by PSP and also overwrite the result.





IBS SCORE COMPLIANCE SYSTEM (ISCS)





Dashboard

PSP Application

CIDB Users

Application

IBS Score

Example

Council Meeting

Reports

Setup

IBS Building Plan Score Approval - IBSAP240045

Project Detail

Project Name:

CADANGAN PEMBANGUNAN SKIM BERSTRATA YANG MENGANDUNGI: i) 260 UNIT RUMAH BANDAR TIGA (3) TINGKAT, ii) 1 UNIT PEJABAT PENGURUSAN, iii) 1 UNIT PONDOK PENGAWAL, iv) 1 UNIT PENCAWANG ELEKTRIK, DI ATAS SEBAHAGIAN LOT 117171 DAN 17172, BANDAR BARU SALAK TINGGI, MUKIM DENGKIL, DAERAH SEPANG, SELANGOR DARUL EHSAN UNTUK TETUAN PARAMOUNT PROPERTY (SEPANG) SDN BHD

Contractor Name:

PARAMOUNT PROPERTY CONSTRUCTION SDN BHD

Developer / Owner Name:

PARAMOUNT PROPERTY (SEPANG) SDN BHD

Civil / Structural Engineer Consultant Name:

JURUTERA PERUNDING KELANA SDN BHD

Contractor Value:

RM 40214957.12

Architecture Consultant:

SA ARCHITECTS SDN BHD

Documents

Project Plan Drawing

No	File name	Document name	File Size	Status	Action
1	Project Plan Drawing	M1831_PH3_CO_12-01~14-01_KEYPLANS_Y230724.PDF	4.74 MB	APPROVED	

Structural Drawings

No	File name	Document name	File Size	Status	Action
1	456	M1831-IBS Scoring Cendana PH3 Attachment -Area.PDF	429.94 KB	APPROVED	
2	123	M1831-IBS Scoring Cendana PH3 Attachment - Door & Window.PDF	199.4 KB	APPROVED	

Architectural Drawings



IBS SCORE COMPLIANCE SYSTEM (ISCS)





Dashboard

PSP Application

CIDB Users

Application

IBS Score

Example

Council Meeting

Reports

Setup

1	ABC	Additional Supporting Document 2.PDF	73.97 KB	APPROVED	
2	ABC	Additional Supporting Document 1.PDF	71.82 KB	APPROVED	

Architectural Drawings

No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 1.PDF	71.82 KB	APPROVED	

Section Plan

No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 3.PDF	74.87 KB	APPROVED	

Roof Plan

No	File name	Document name	File Size	Status	Action
1	ABC	Additional Supporting Document 3.PDF	74.87 KB	APPROVED	

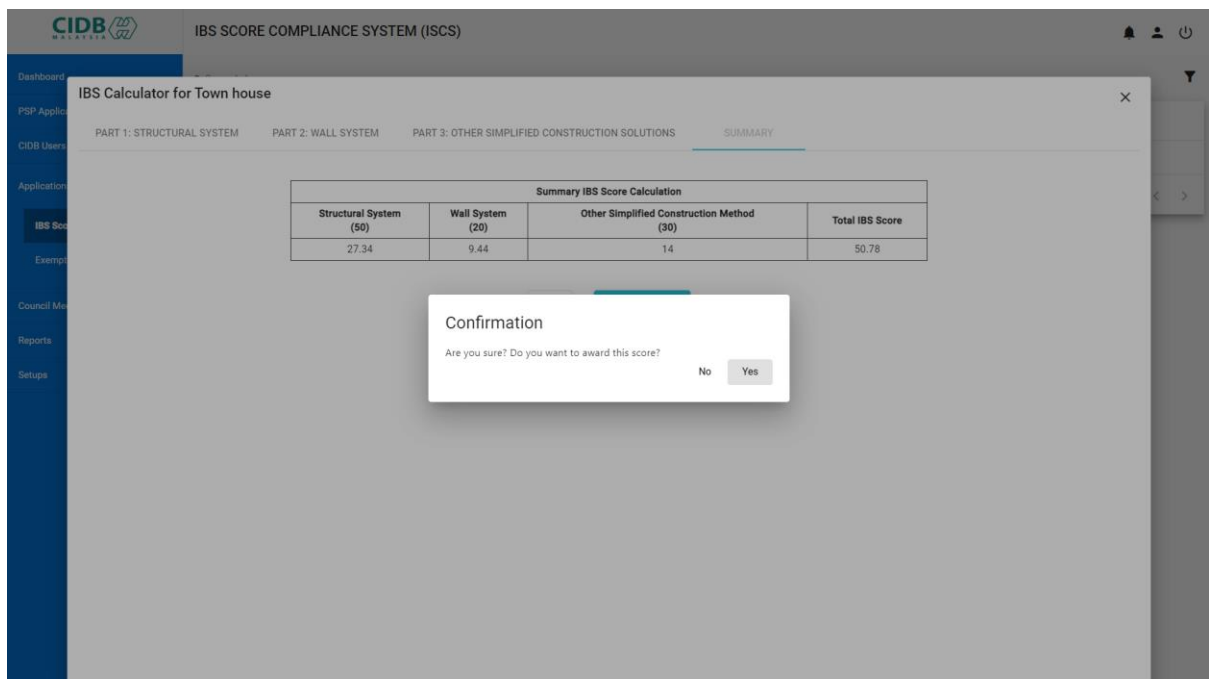
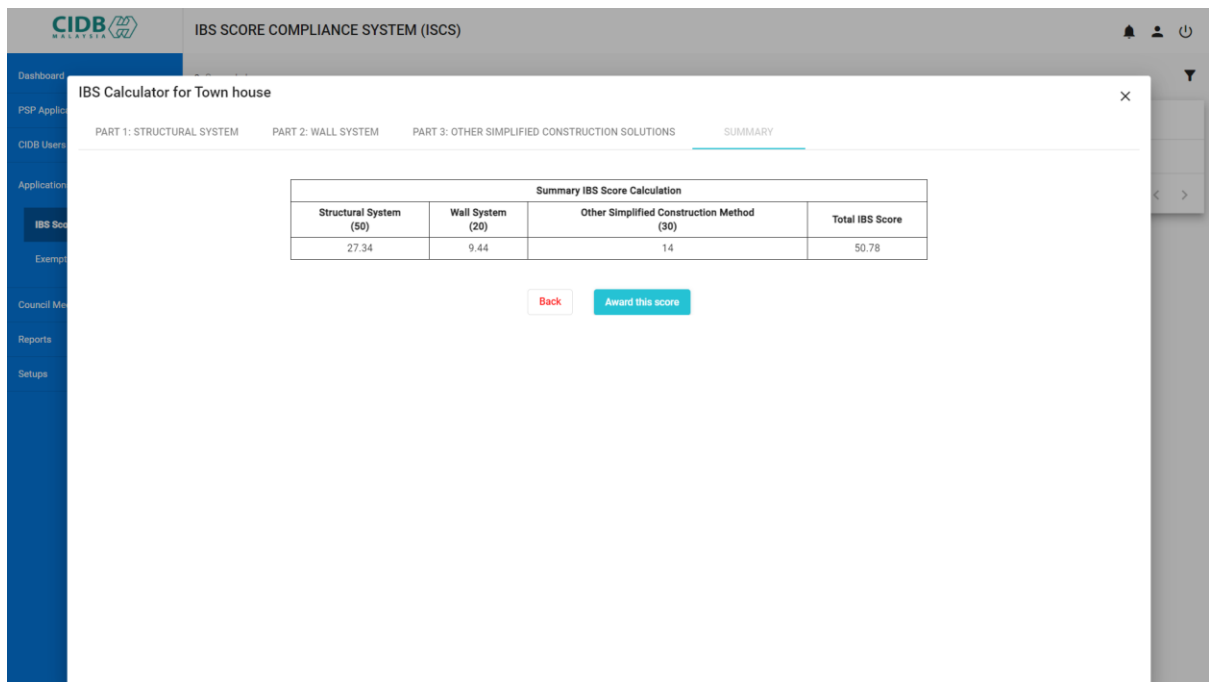
IBS Score Calculator Summary

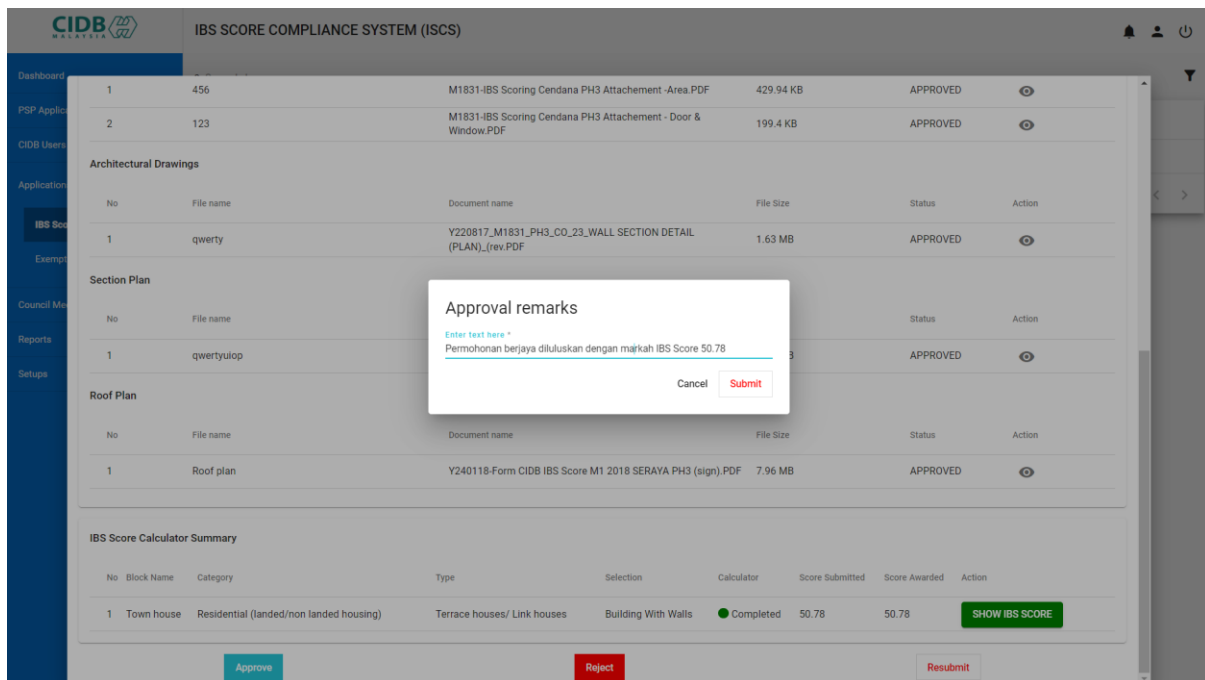
No	Block Name	Category	Type	Selection	Calculator	Score Submitted	Score Awarded	Action
1	BLOK TERATAI	Residential (landed/non landed housing)	Bungalows/Detached houses	Building With Walls	 Completed	96.95	-	SHOW IBS SCORE

Approve

Reject

Resubmit





The screenshot displays the IBS Score Compliance System (ISCS) interface. A modal window titled "Approval remarks" is open, prompting the user to "Enter text here" with the example text "Permohonan berjaya diluluskan dengan markah IBS Score 50.78". The modal includes "Cancel" and "Submit" buttons. The background interface shows a sidebar with navigation options like Dashboard, PSP Application, CIDB Users, Application, IBS Score, Examples, Council Meeting, Reports, and Settings. The main content area displays a table of architectural drawings and a section for the IBS Score Calculator Summary.

No	File name	Document name	File Size	Status	Action
1	qwerty	Y220817_M1831_PH3_CO_23_WALL SECTION DETAIL (PLAN)_(rev).PDF	1.63 MB	APPROVED	

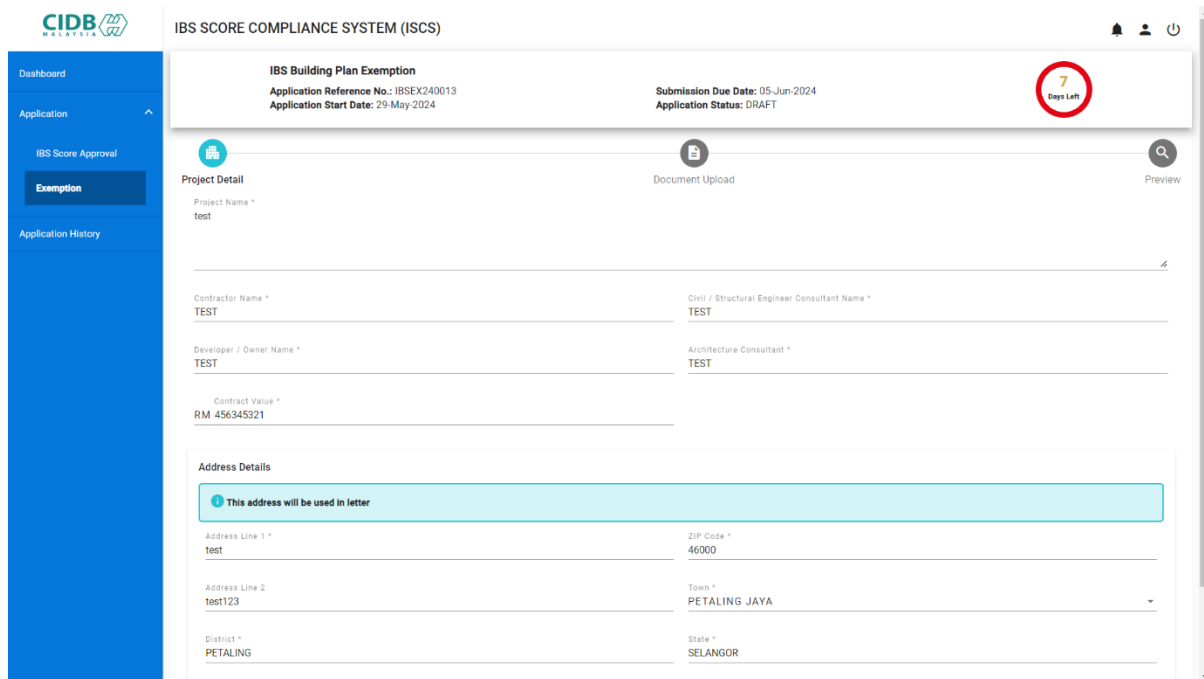
No	Block Name	Category	Type	Selection	Calculator	Score Submitted	Score Awarded	Action
1	Town house	Residential (landed/non landed housing)	Terrace houses/ Link houses	Building With Walls	Completed	50.78	50.78	SHOW IBS SCORE

At the bottom of the interface, there are buttons for "Approve", "Reject", and "Resubmit".

4.9 IBS SCORE EXEMPTION

- For Exemption Approval, only required 3 tab which are for Project Detail, Document Upload and Preview

4.9.1 Project Detail



IBS Building Plan Exemption
Application Reference No.: IBSEX240013
Application Start Date: 29-May-2024

Submission Due Date: 05-Jun-2024
Application Status: DRAFT

7 Days Left

Project Detail

Project Name *
test

Contractor Name *
TEST

Civil / Structural Engineer Consultant Name *
TEST

Developer / Owner Name *
TEST

Architecture Consultant *
TEST

Contract Value *
RM 456345321

Address Details

This address will be used in letter

Address Line 1 *
test

ZIP Code *
46000

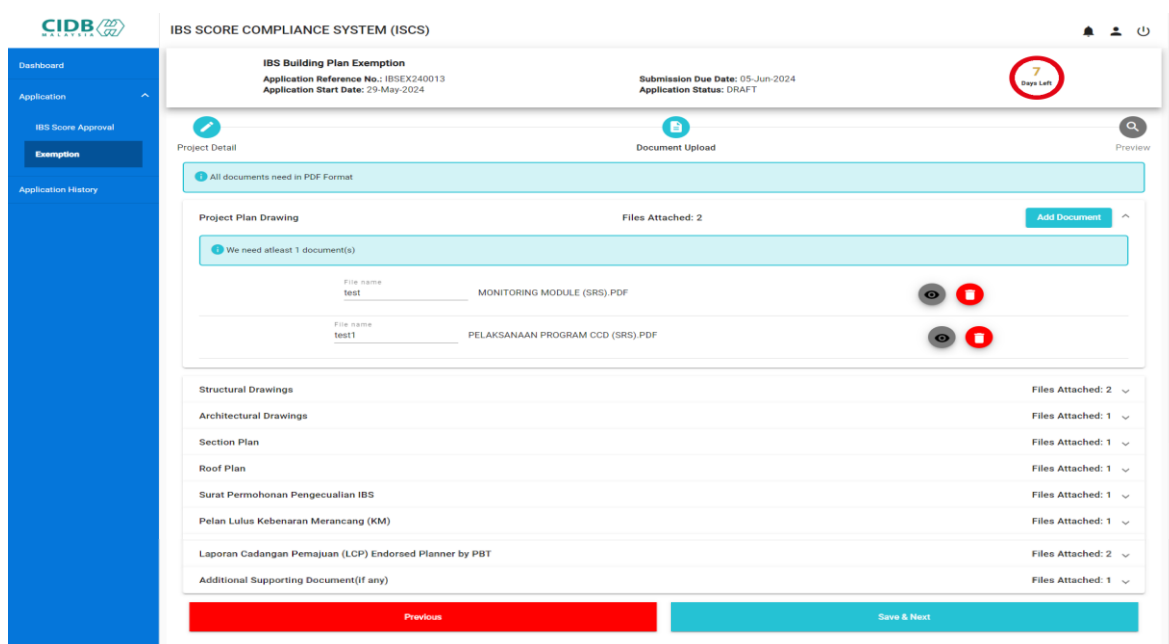
Address Line 2
test123

Town *
PETALING JAYA

District *
PETALING

State *
SELANGOR

4.9.2 Document Upload



IBS Building Plan Exemption
Application Reference No.: IBSEX240013
Application Start Date: 29-May-2024

Submission Due Date: 05-Jun-2024
Application Status: DRAFT

7 Days Left

Document Upload

All documents need in PDF Format

Project Plan Drawing

Files Attached: 2

We need atleast 1 document(s)

File name
test MONITORING MODULE (SRS).PDF

File name
test1 PELAKSANAAN PROGRAM CCD (SRS).PDF

Structural Drawings Files Attached: 2

Architectural Drawings Files Attached: 1

Section Plan Files Attached: 1

Roof Plan Files Attached: 1

Surat Permohonan Pengecualian IBS Files Attached: 1

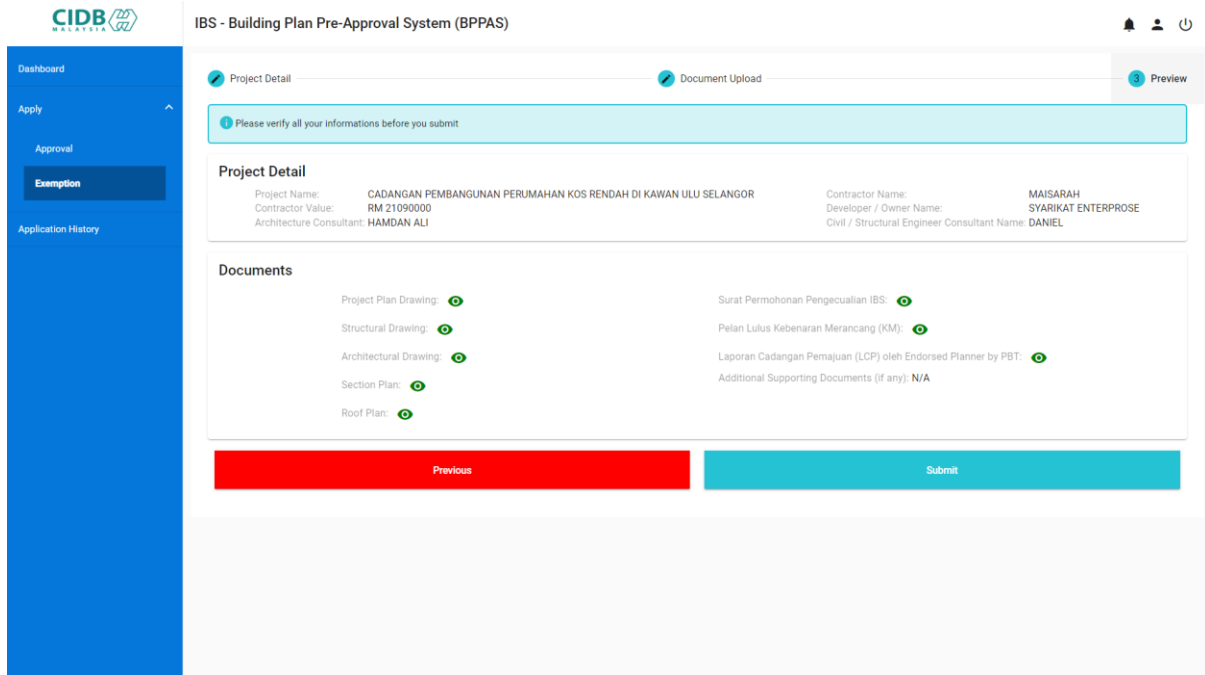
Pelan Lulus Kebenaran Merancang (KM) Files Attached: 1

Laporan Cadangan Pemajuan (LCP) Endorsed Planner by PBT Files Attached: 2

Additional Supporting Document(if any) Files Attached: 1

Previous **Save & Next**

4.9.3 Preview



IBS - Building Plan Pre-Approval System (BPPAS)

Project Detail | Document Upload | Preview

Please verify all your informations before you submit

Project Detail

Project Name: CADANGAN PEMBANGUNAN PERUMAHAN KOS RENDAH DI KAWAN ULU SELANGOR
Contractor Value: RM 21090000
Architecture Consultant: HAMDAN ALI

Contractor Name: MAISARAH
Developer / Owner Name: SYARIKAT ENTERPROSE
Civil / Structural Engineer Consultant Name: DANIEL

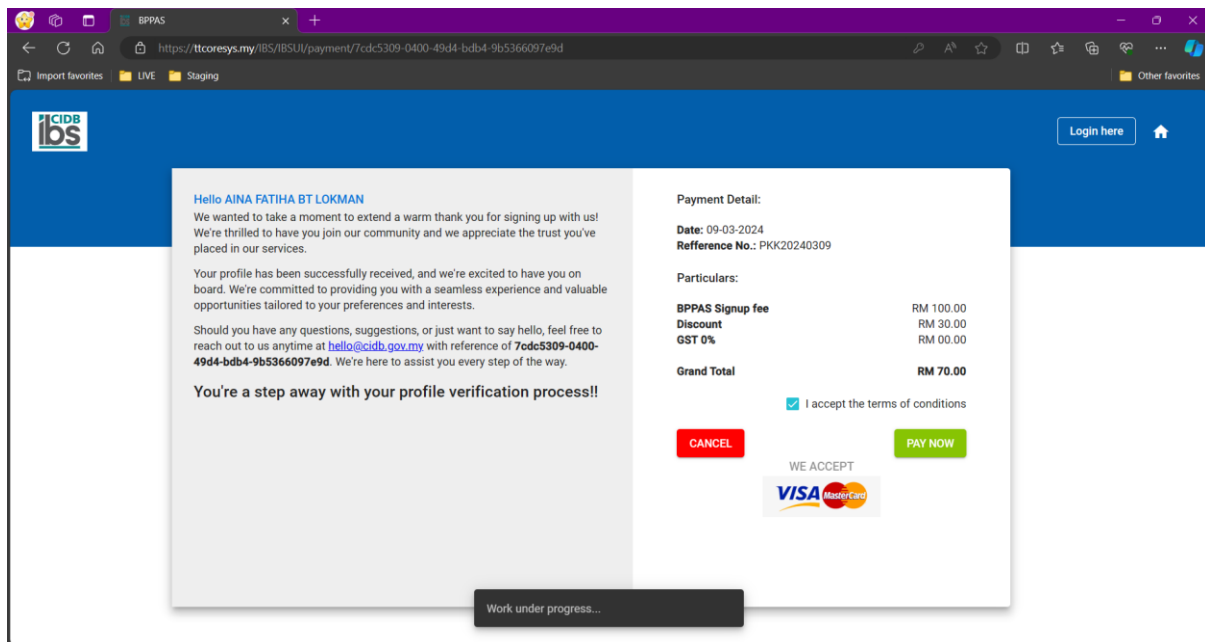
Documents

Project Plan Drawing: ✔
Structural Drawing: ✔
Architectural Drawing: ✔
Section Plan: ✔
Roof Plan: ✔

Surat Permohonan Pengecualian IBS: ✔
Pelan Lulus Kebenaran Merancang (KM): ✔
Laporan Cadangan Pemajuan (LCP) oleh Endorsed Planner by PBT: ✔
Additional Supporting Documents (if any): N/A

[Previous](#) [Submit](#)

4.9.4 Payment Gateway



IBS [Login here](#)

Hello AINA FATIHA BT LOKMAN

We wanted to take a moment to extend a warm thank you for signing up with us! We're thrilled to have you join our community and we appreciate the trust you've placed in our services.

Your profile has been successfully received, and we're excited to have you on board. We're committed to providing you with a seamless experience and valuable opportunities tailored to your preferences and interests.

Should you have any questions, suggestions, or just want to say hello, feel free to reach out to us anytime at hello@cidb.gov.my with reference of 7cdc5309-0400-49d4-bdb4-9b5366097e9d. We're here to assist you every step of the way.

You're a step away with your profile verification process!!

Payment Detail:

Date: 09-03-2024
Reference No.: PKK20240309

Particulars:

BPPAS Signup fee	RM 100.00
Discount	RM 30.00
GST 0%	RM 00.00
Grand Total	RM 70.00

☒ I accept the terms of conditions

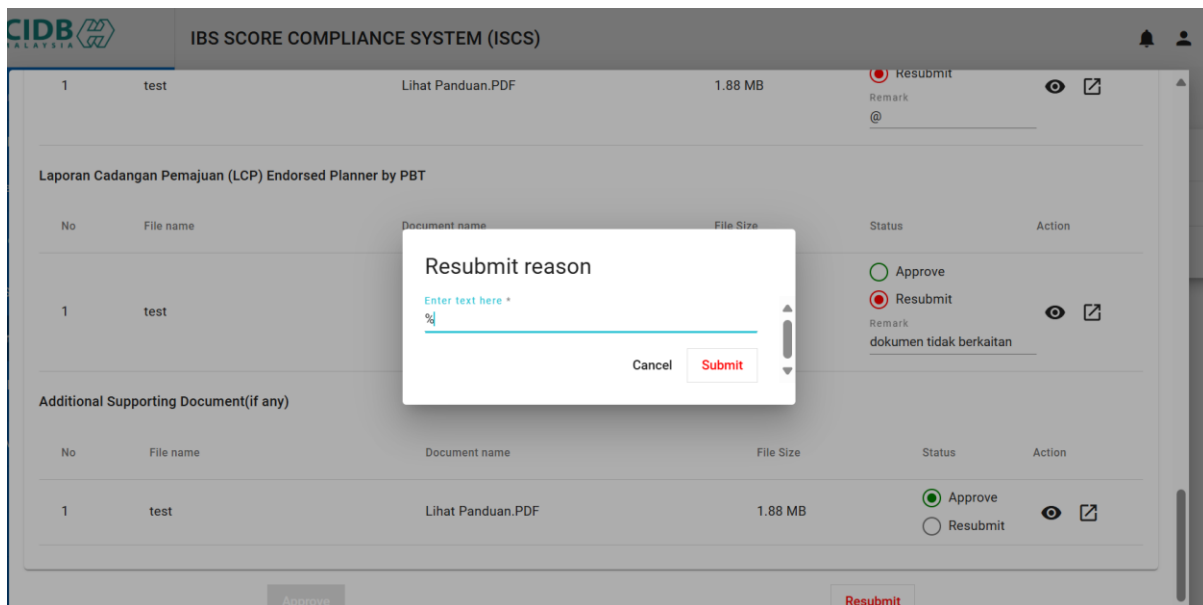
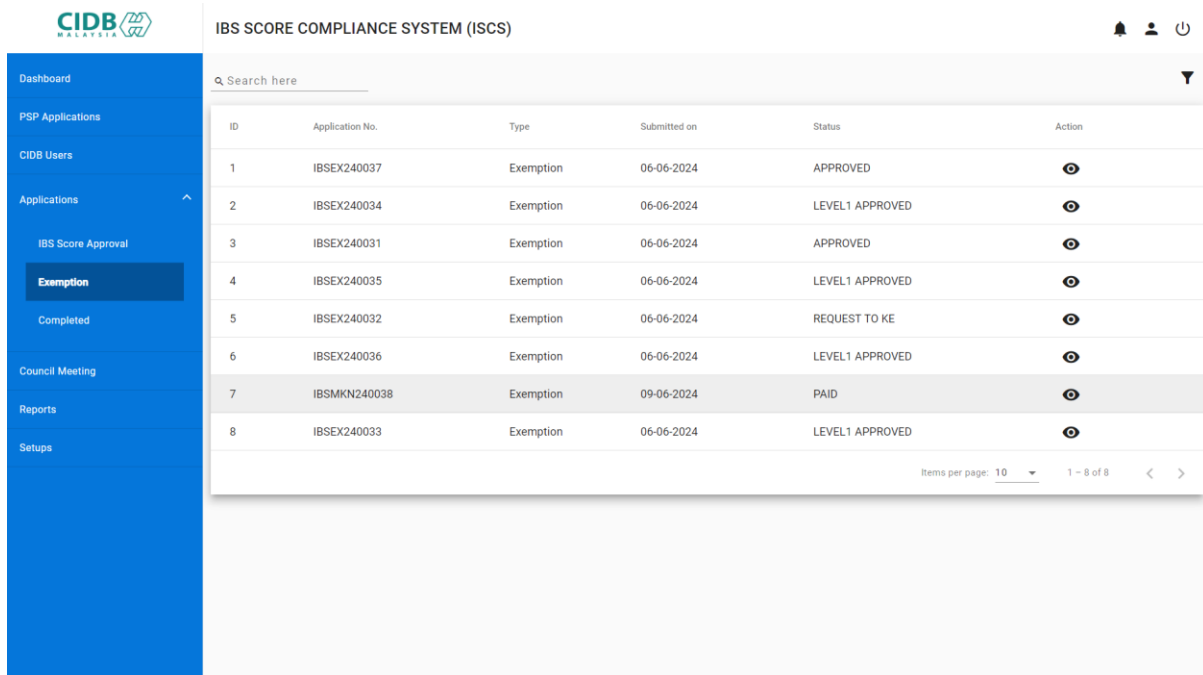
[CANCEL](#) [PAY NOW](#)

WE ACCEPT 

Work under progress...

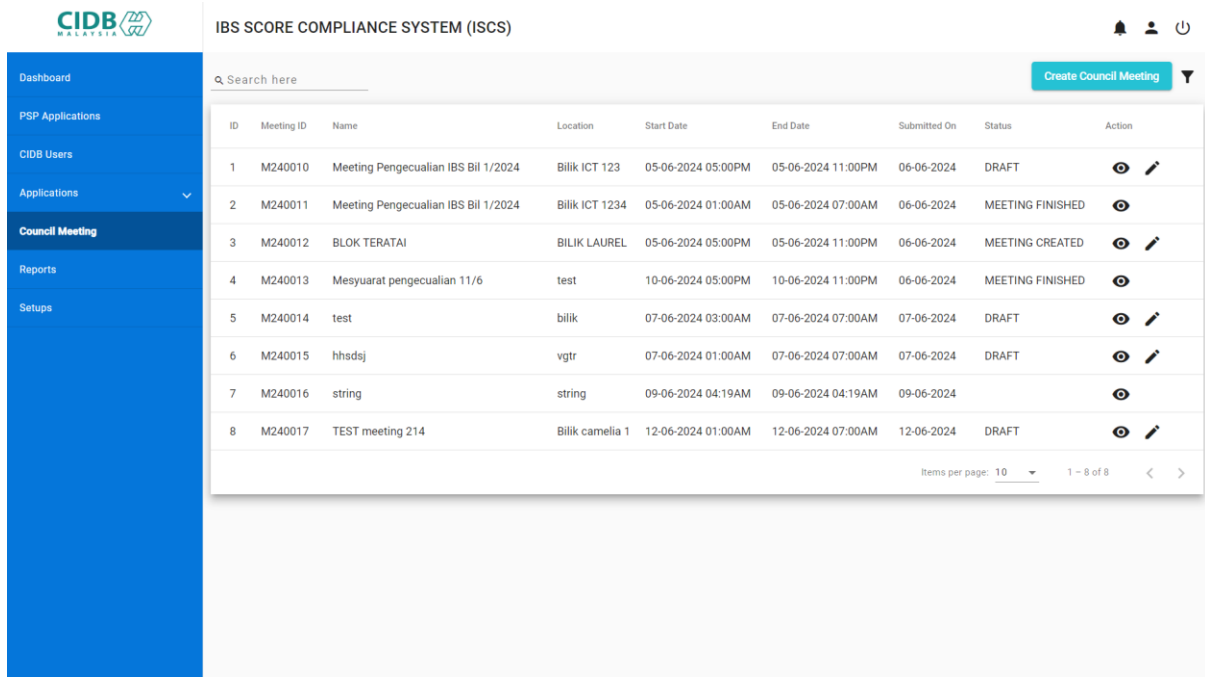
4.10 Verifier 1

- Verifier to check on the document submitted



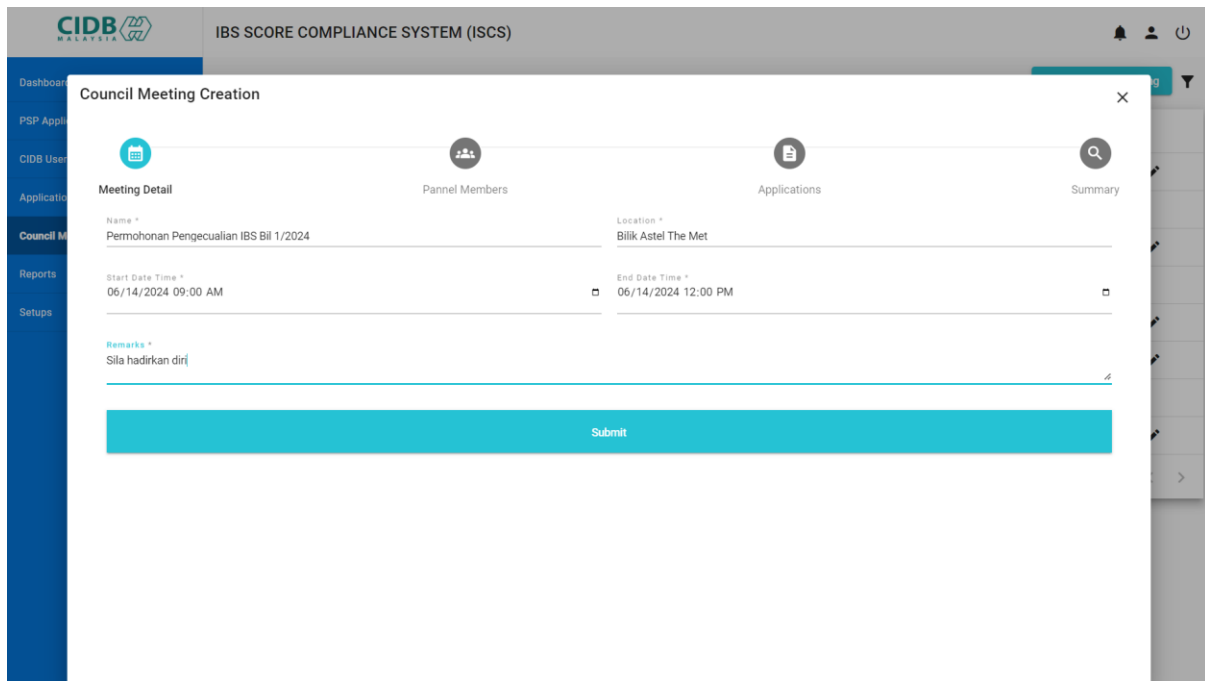
4.11 Create Meeting

- To create meeting information needed are Meeting details, the panel members, which application to review and tab for summary.
- Once meeting submitted, panel will receive email about the invitation details of the meeting

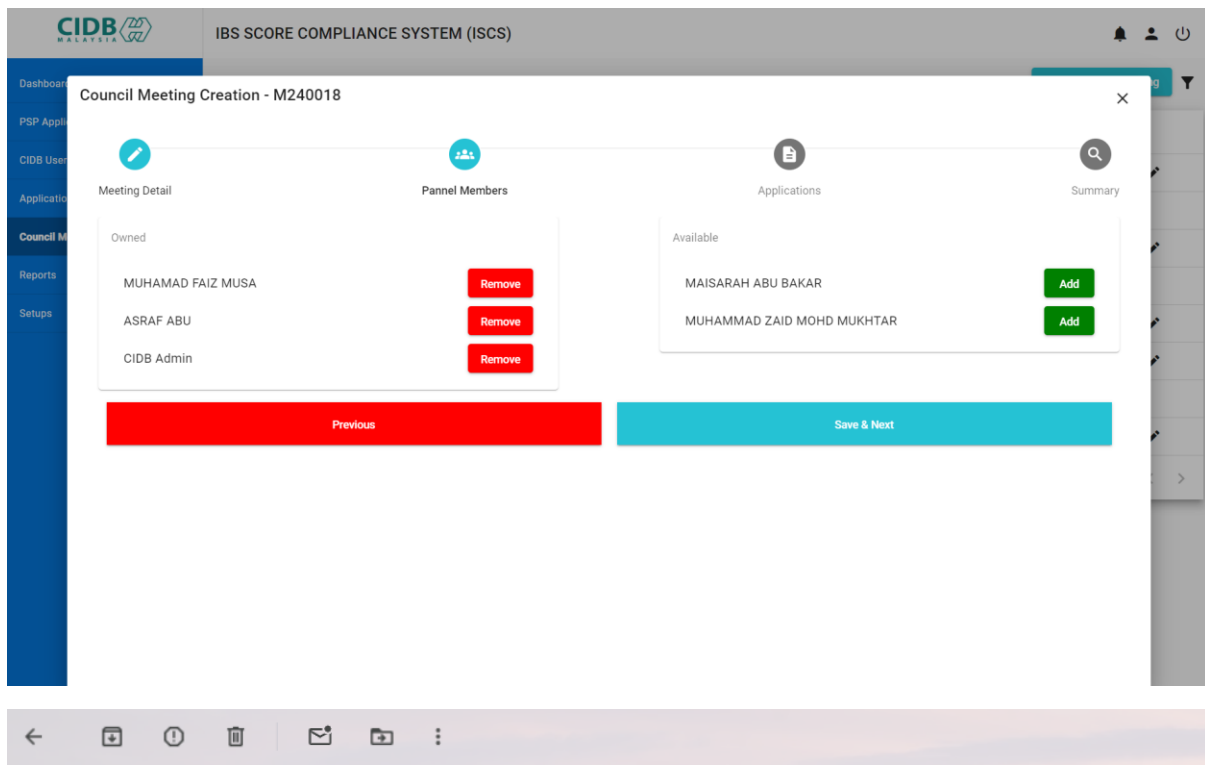


The screenshot shows the IBS Score Compliance System (ISCS) dashboard. On the left is a blue sidebar with navigation links: Dashboard, PSP Applications, CIDB Users, Applications, Council Meeting (selected), Reports, and Setups. The main area has a header with the CIDB logo, system name, and user profile. Below the header is a search bar and a 'Create Council Meeting' button. A table lists meetings with columns: ID, Meeting ID, Name, Location, Start Date, End Date, Submitted On, Status, and Action. The table contains 8 rows of meeting data. At the bottom right of the table, it says 'Items per page: 10' and '1 - 8 of 8'.

ID	Meeting ID	Name	Location	Start Date	End Date	Submitted On	Status	Action
1	M240010	Meeting Pengecualian IBS Bil 1/2024	Bilik ICT 123	05-06-2024 05:00PM	05-06-2024 11:00PM	06-06-2024	DRAFT	 
2	M240011	Meeting Pengecualian IBS Bil 1/2024	Bilik ICT 1234	05-06-2024 01:00AM	05-06-2024 07:00AM	06-06-2024	MEETING FINISHED	
3	M240012	BLOK TERATAI	BILIK LAUREL	05-06-2024 05:00PM	05-06-2024 11:00PM	06-06-2024	MEETING CREATED	 
4	M240013	Mesyuarat pengecualian 11/6	test	10-06-2024 05:00PM	10-06-2024 11:00PM	06-06-2024	MEETING FINISHED	
5	M240014	test	bilik	07-06-2024 03:00AM	07-06-2024 07:00AM	07-06-2024	DRAFT	 
6	M240015	hhsdsj	vgtr	07-06-2024 01:00AM	07-06-2024 07:00AM	07-06-2024	DRAFT	 
7	M240016	string	string	09-06-2024 04:19AM	09-06-2024 04:19AM	09-06-2024		
8	M240017	TEST meeting 214	Bilik camelia 1	12-06-2024 01:00AM	12-06-2024 07:00AM	12-06-2024	DRAFT	 



The screenshot shows the 'Council Meeting Creation' form. It has a title bar with a close button. Below the title bar are four tabs: Meeting Detail (selected), Pannel Members, Applications, and Summary. The Meeting Detail tab contains the following fields: Name (Permohonan Pengecualian IBS Bil 1/2024), Location (Bilik Astel The Met), Start Date Time (06/14/2024 09:00 AM), End Date Time (06/14/2024 12:00 PM), and Remarks (Sila hadirkan diri). At the bottom is a large blue 'Submit' button.



Score Application Meeting Invitation ➤ Inbox x



noreply@cidb.gov.my

to me ▾

Hi CIDB Admin,

You have been appointed as Member for the meeting Meeting test with Reference No M240006 scheduled on 2024-06-05 at 01:30:00.

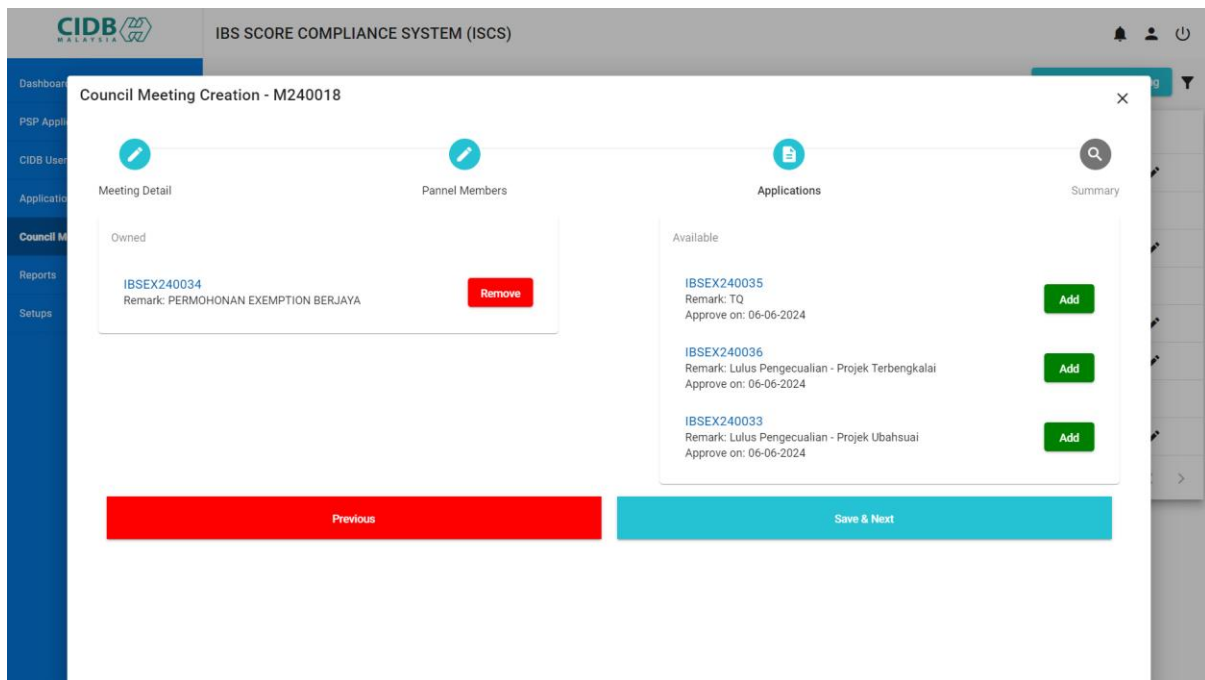
Meeting details:

- Meeting Name: Meeting test
- Meeting reference ID: M240006
- Location: bilik Astel
- Start Date Time: 2024-06-05 01:30:00
- End Date Time: 2024-06-05 03:00:00
- Remarks: perlu dapatkan pengesahan daripda KE dahulu

Panel Members:

First name	Last name
CIDB	Admin
MUSHAQDEEN J	

Thank you,



Council Meeting Creation - M240018

Meeting Detail | Pannel Members | Applications | Summary

Owned

IBSEX240034
Remark: PERMOHONAN EXEMPTION BERJAYA
[Remove](#)

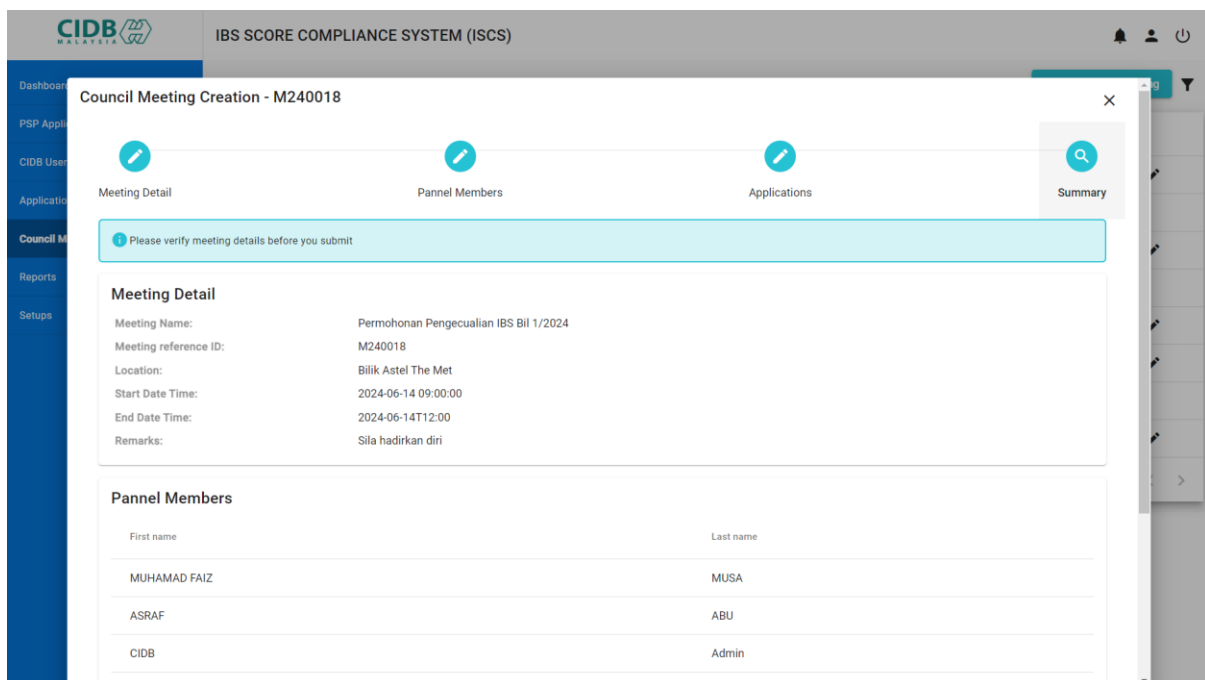
Available

IBSEX240035
Remark: TQ
Approve on: 06-06-2024
[Add](#)

IBSEX240036
Remark: Lulus Pengecualian - Projek Terbangkalai
Approve on: 06-06-2024
[Add](#)

IBSEX240033
Remark: Lulus Pengecualian - Projek Ubahsuai
Approve on: 06-06-2024
[Add](#)

[Previous](#) [Save & Next](#)



Council Meeting Creation - M240018

Meeting Detail | Pannel Members | Applications | Summary

Please verify meeting details before you submit

Meeting Detail

Meeting Name: Permohonan Pengecualian IBS Bil 1/2024
Meeting reference ID: M240018
Location: Bilik Astel The Met
Start Date Time: 2024-06-14 09:00:00
End Date Time: 2024-06-14T12:00
Remarks: Sila hadirkan diri

Pannel Members

First name	Last name
MUHAMAD FAIZ	MUSA
ASRAF	ABU
CIDB	Admin



IBS SCORE COMPLIANCE SYSTEM (ISCS)





Dashboard

PSP Appli

CIDB User

Application

Council M

Reports

Setups

Meeting Name:

Permohonan Pengecualian IBS Bil 1/2024

Meeting reference ID:

M240018

Location:

Bilik Astel The Met

Start Date Time:

2024-06-14 09:00:00

End Date Time:

2024-06-14T12:00

Remarks:

Sila hadirkan diri

Pannel Members

First name	Last name
MUHAMAD FAIZ	MUSA
ASRAF	ABU
CIDB	Admin

Applications

Application

IBSEX240034

Previous

Submit



IBS SCORE COMPLIANCE SYSTEM (ISCS)





Dashboard

PSP Appli

CIDB User

Application

Council M

Reports

Setups

Meeting Name:

Permohonan Pengecualian IBS Bil 1/2024

Meeting reference ID:

M240018

Location:

Bilik Astel The Met

Start Date Time:

2024-06-14 09:00:00

End Date Time:

2024-06-14T12:00

Remarks:

Sila hadirkan diri

Pannel Members

First name	Last name
MUHAMAD FAIZ	MUSA
ASRAF	ABU
CIDB	Admin

Applications

Application

IBSEX240034

Previous

Submit

Confirmation

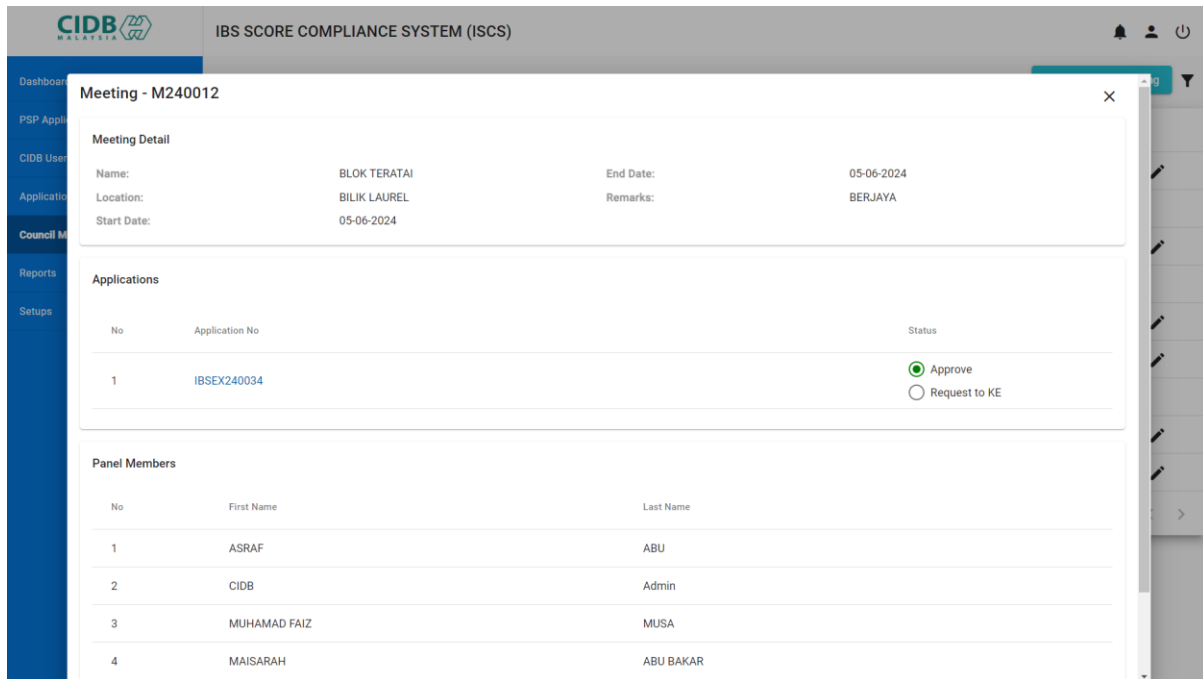
Are you sure? Do you want to submit this meeting?

No

Yes

4.11.1 Council Meeting

- In meeting, panel will review each application and approved, they able to enter remarks and submit the result.
- meeting status will change as Meeting Finished



Meeting - M240012

Meeting Detail

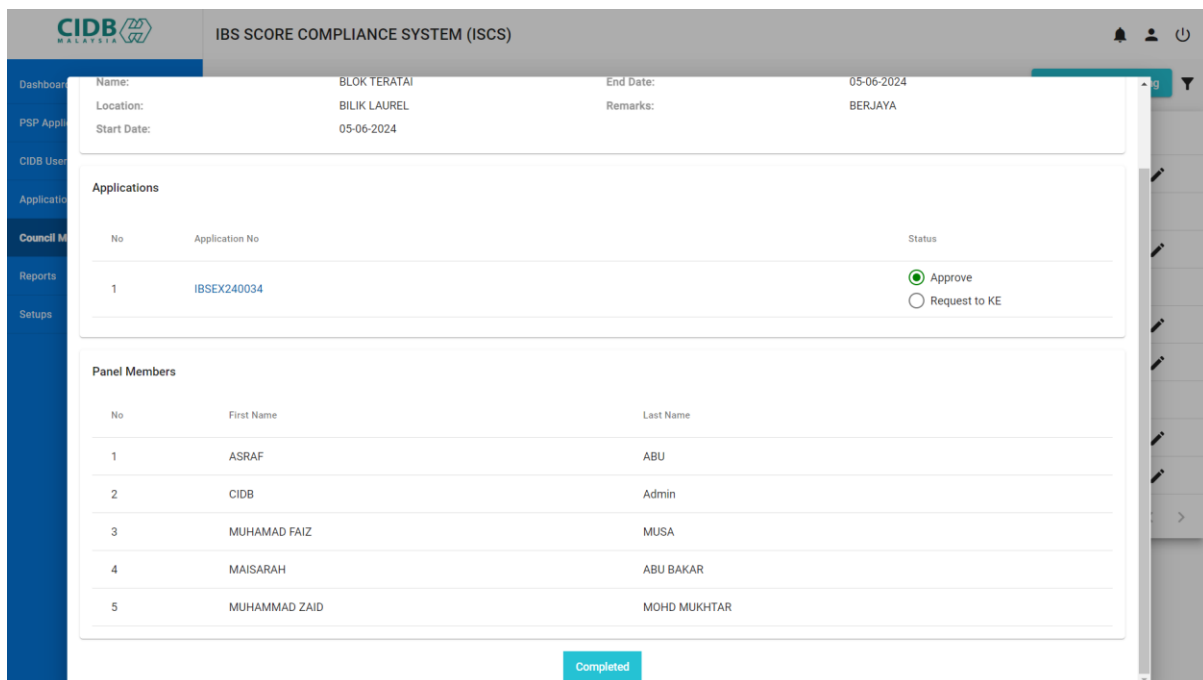
Name:	BLOK TERATAI	End Date:	05-06-2024
Location:	BILIK LAUREL	Remarks:	BERJAYA
Start Date:	05-06-2024		

Applications

No	Application No	Status
1	IBSEX240034	☒ Approve ☐ Request to KE

Panel Members

No	First Name	Last Name
1	ASRAF	ABU
2	CIDB	Admin
3	MUHAMAD FAIZ	MUSA
4	MAISARAH	ABU BAKAR



Meeting - M240012

Meeting Detail

Name:	BLOK TERATAI	End Date:	05-06-2024
Location:	BILIK LAUREL	Remarks:	BERJAYA
Start Date:	05-06-2024		

Applications

No	Application No	Status
1	IBSEX240034	☒ Approve ☐ Request to KE

Panel Members

No	First Name	Last Name
1	ASRAF	ABU
2	CIDB	Admin
3	MUHAMAD FAIZ	MUSA
4	MAISARAH	ABU BAKAR
5	MUHAMMAD ZAID	MOHD MUKHTAR

Completed



IBS SCORE COMPLIANCE SYSTEM (ISCS)





Name:

BLOK TERATAI

End Date:

05-06-2024

Location:

BILIK LAUREL

Remarks:

BERJAYA

Start Date:

05-06-2024

Applications

No	Application No	Status
1	IBSEX240034	☒ Approve ☐ Request to KE

Meeting remarks

Enter text here *

ok tahniah

Cancel

Submit

Panel Members

No	First Name	
1	ASRAF	ABU
2	CIDB	Admin
3	MUHAMAD FAIZ	MUSA
4	MAISARAH	ABU BAKAR
5	MUHAMMAD ZAID	MOHD MUKHTAR

Completed



IBS SCORE COMPLIANCE SYSTEM (ISCS)





Dashboard

PSP Applications

CIDB Users

Applications

Council Meeting

Reports

Setups

Search here

Create Council Meeting

ID	Meeting ID	Name	Location	Start Date	End Date	Submitted On	Status	Action
1	M240010	Meeting Pengecualian IBS Bil 1/2024	Bilik ICT 123	05-06-2024 05:00PM	05-06-2024 11:00PM	06-06-2024	DRAFT	 
2	M240011	Meeting Pengecualian IBS Bil 1/2024	Bilik ICT 1234	05-06-2024 01:00AM	05-06-2024 07:00AM	06-06-2024	MEETING FINISHED	
3	M240012	BLOK TERATAI	BILIK LAUREL	05-06-2024 05:00PM	05-06-2024 11:00PM	06-06-2024	MEETING FINISHED	
4	M240013	Mesyuarat pengecualian 11/6	test	10-06-2024 05:00PM	10-06-2024 11:00PM	06-06-2024	MEETING FINISHED	
5	M240014	test	bilik	07-06-2024 03:00AM	07-06-2024 07:00AM	07-06-2024	DRAFT	 
6	M240015	hhsdsj	vgtr	07-06-2024 01:00AM	07-06-2024 07:00AM	07-06-2024	DRAFT	 
7	M240016	string	string	09-06-2024 04:19AM	09-06-2024 04:19AM	09-06-2024		
8	M240017	TEST meeting 214	Bilik camelia 1	12-06-2024 01:00AM	12-06-2024 07:00AM	12-06-2024	DRAFT	 
9	M240018	Permohonan Pengecualian IBS Bil 1/2024	Bilik Astel The Met	14-06-2024 01:00AM	14-06-2024 04:00AM	14-06-2024	DRAFT	 

Items per page: 10

1 - 9 of 9

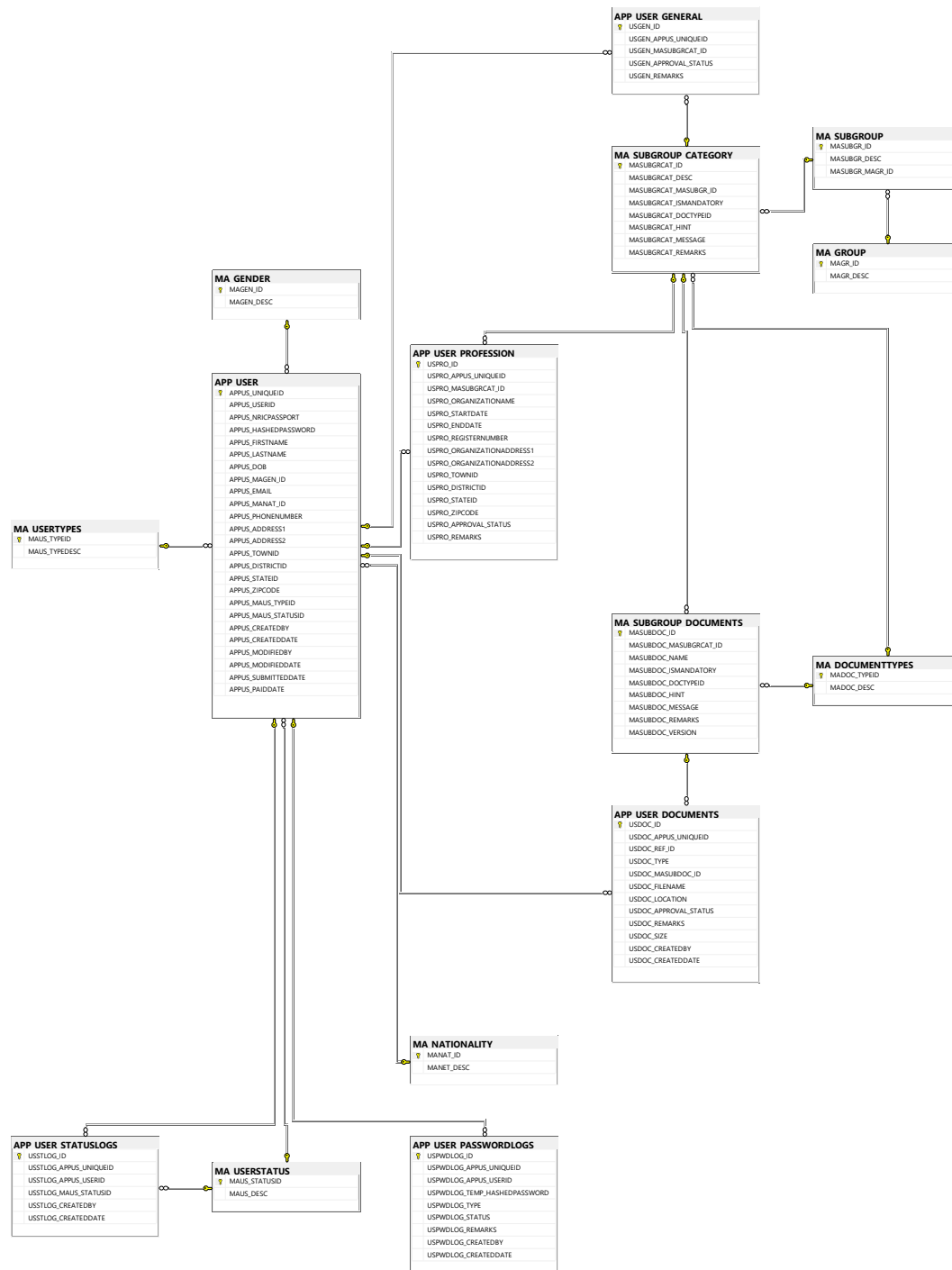
<

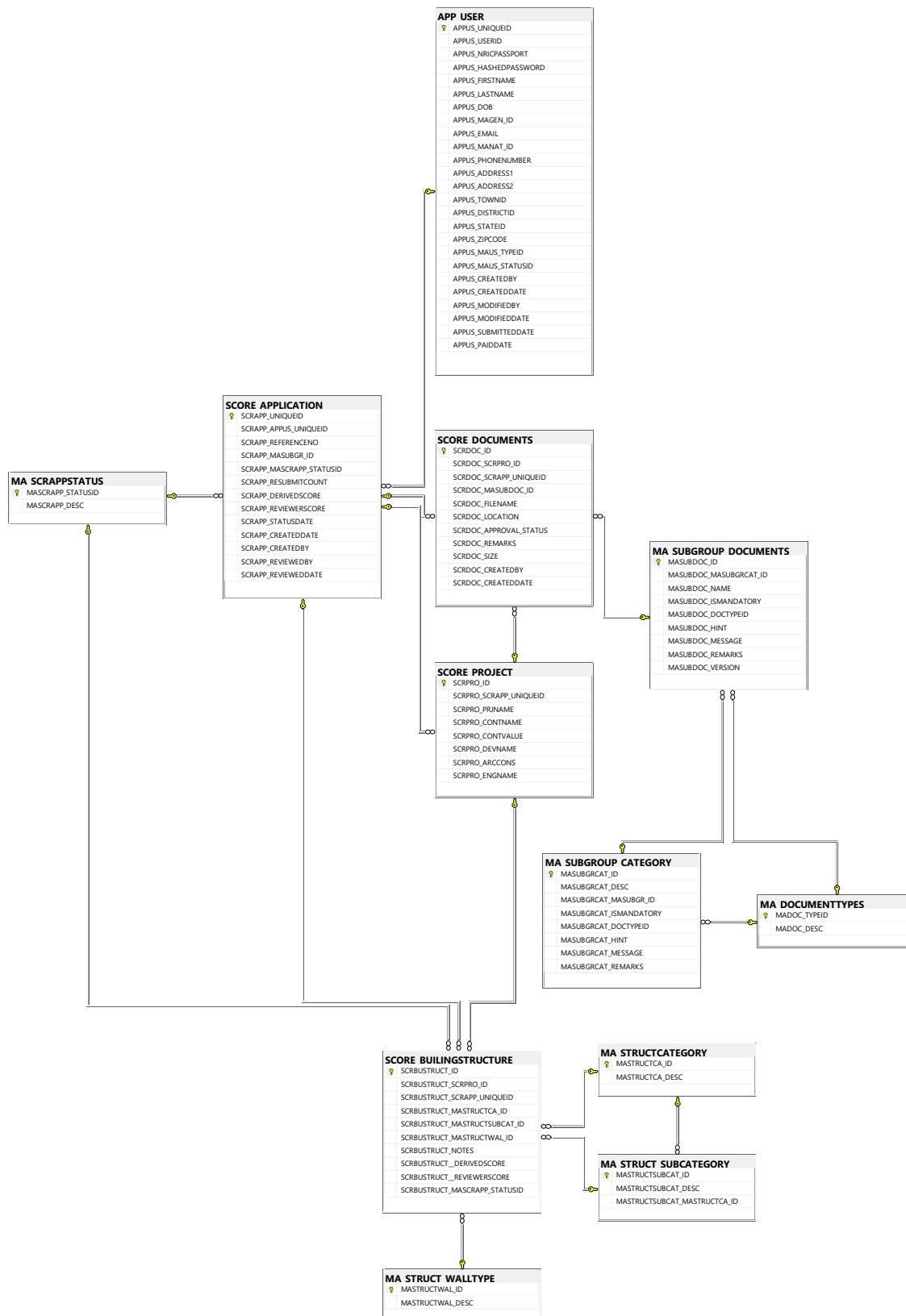
>

5.0 DATA STRUCTURE

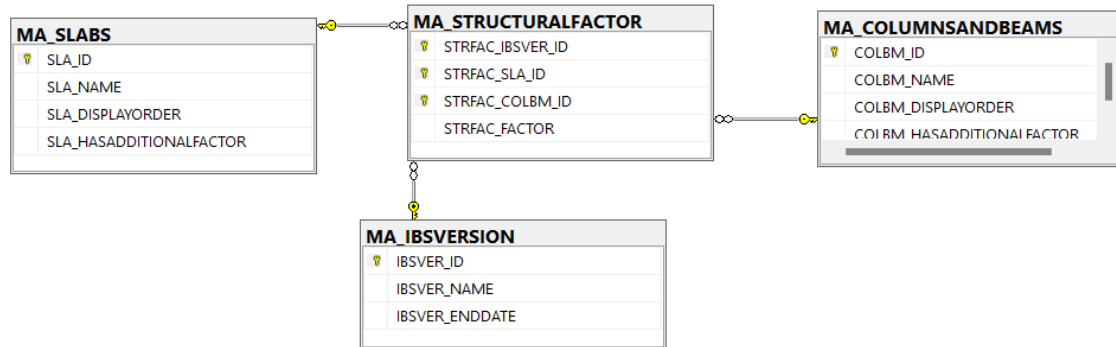
This section outlines the data structure used in the system and is complied with CIDB BPM defined policy.

DATA STRUCTURE DIAGRAMS

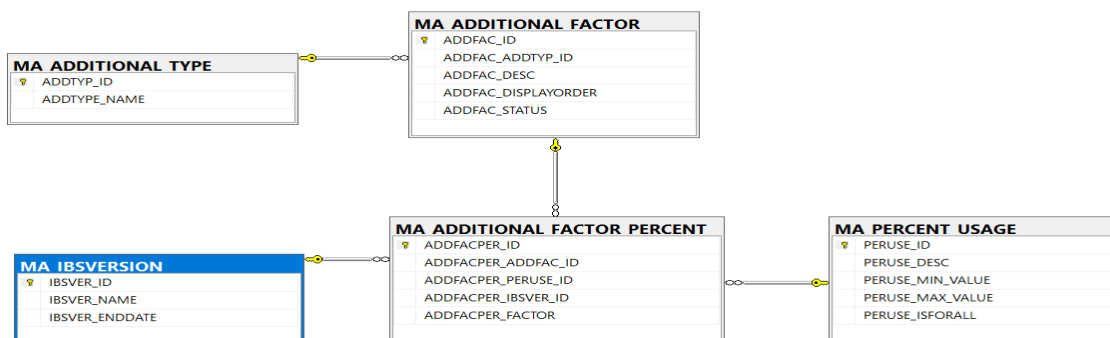




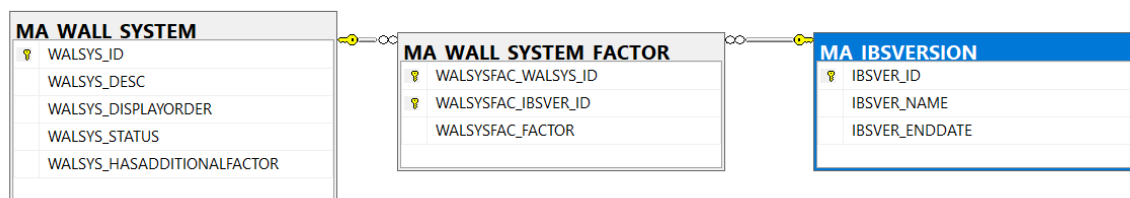
ER Diagram for Structural Master Data



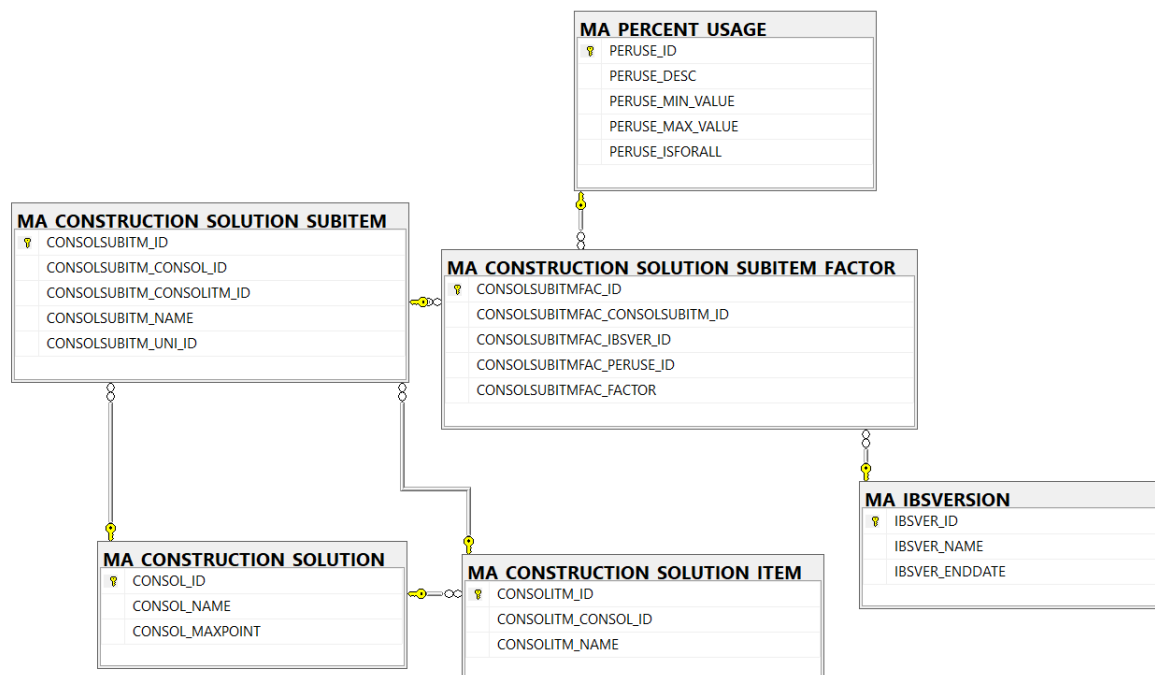
ER Diagram for Additional Factor Master Data



ER Diagram for Wall System Master data



ER Diagram for Simplified Construction Method Master data



ER Diagram for overall Master data

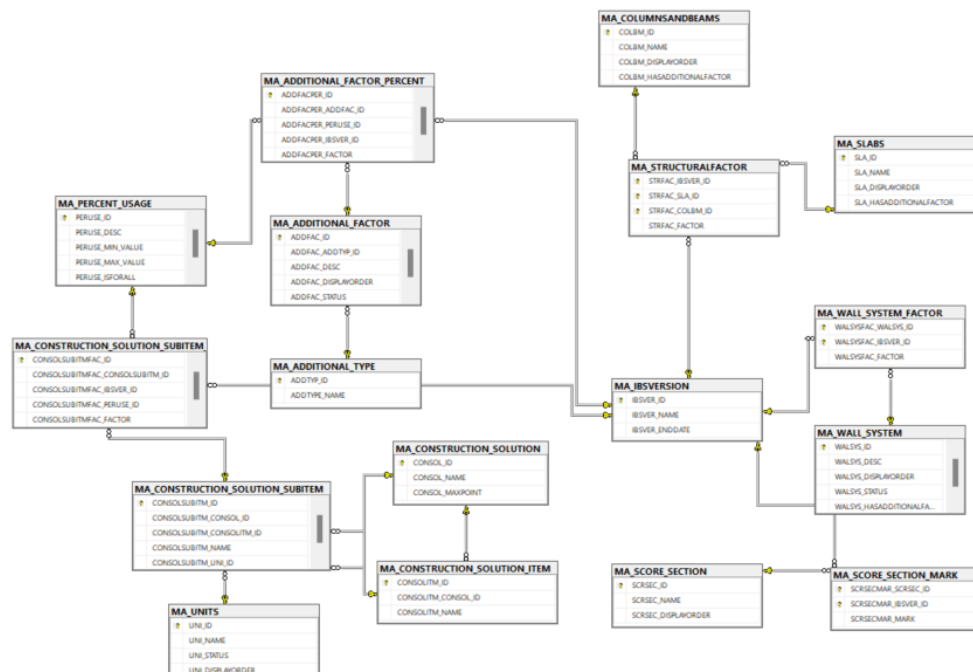


TABLE DEFINITION

Table Name	MA_IBSVERSION					
Table Description	This table holds the IBS Version info.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
IBSVER_ID	tinyint	N/A	Y			
IBSVER_NAME	Varchar	50				
IBSVER_ENDDATE	date	N/A				This column if null indicates active version

Table Name	MA_SCORE_SECTION					
Table Description	This table holds the score sections.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRSEC_ID	tinyint	N/A	Y			
SCRSEC_NAME	Varchar	100				
SCRSEC_DISPLAYORDER	tinyint	N/A				

Table Name	MA_SCORE_SECTION_MARK					
Table Description	This table holds the score section marks for an IBS Version.					

Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRSECMAR_SCRSEC_ID	tinyint	N/A	Y	MA_SCORE_SECTION	SCRSEC_ID	
SCRSECMAR_IBSVER_ID	tinyint	N/A	Y	MA_IBSVERSION	IBSVER_ID	
SCRSECMAR_MARK	tinyint	N/A				

Table Name	MA_UNITS					
Table Description	This table holds the score section marks for an IBS Version.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
UNI_ID	smallint	N/A	Y			
UNI_NAME	varchar	100				
UNI_STATUS	tinyint	N/A				
UNI_DISPLAYORDER	smallint					

Table Name	MA_PERCENT_USAGE					
Table Description	This table holds the percent usage range					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
PERUSE_ID	tinyint	N/A	Y			
PERUSE_DESC	Varchar	250				
PERUSE_MIN_VALUE	decimal	(18,2)				
PERUSE_MAX_VALUE	tinyint	(18,2)				

PERUSE_ISFORALL	tinyint					
-----------------	---------	--	--	--	--	--

Table Name	MA_ADDITIONAL_TYPE					
Table Description	This table holds the Additional Type information, such as Structural System, Wall System etc.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
ADDTYP_ID	tinyint	N/A	Y			
ADDTYPE_NAME	varchar	200				

Table Name	MA_ADDITIONAL_FACTOR					
Table Description	This table holds the Additional Factor items for each additional Type.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
ADDFAC_ID	smallint	N/A	Y			
ADDFAC_ADDTYP_ID	tinyint	N/A		MA_ADDITIONAL_TYPE	ADDTYP_ID	
ADDFAC_DESC	Varchar	250				
ADDFAC_DISPLAYORDER	tinyint	N/A				
ADDFAC_STATUS	tinyint	N/A				1 or 0

Table Name	MA_ADDITIONAL_FACTOR_PERCENT					
Table Description	This table holds the Additional Factor value for each additional factor for a given IBS version.					

Column Name	Data Type	Size	PK	FK Table	FK Column	Description
ADDFACPER_ID	smallint	N/A	Y			
ADDFACPER_ADDFAC_ID	smallint	N/A		MA_ADDITIONAL_FACTOR	ADDFAC_ID	
ADDFACPER_PERUSE_ID	tinyint	N/A				
ADDFACPER_IBSVER_ID	tinyint	N/A				
ADDFACPER_FACTOR	Decimal	(3,2)				

Table Name	MA_SLABS					
Table Description	This table holds the Slabs reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SLA_ID	tinyint	N/A	Y			
SLA_NAME	varchar	250				
SLA_DISPLAYORDER	tinyint	N/A				
SLA_HASADDITIONALFACTOR	tinyint	N/A				

Table Name	MA_COLUMNSANDBEAMS					
Table Description	This table holds the columns and beams reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
COLBM_ID	tinyint	N/A	Y			
COLBM_NAME	varchar	250				

COLBM_DISPLAYORDER	tinyint	N/A				
COLBM_HASADDITIONALFACTOR	tinyint	N/A				

Table Name	MA_STRUCTURALFACTOR					
Table Description	This table holds the structural factor reference data for a given slab and column for an IBS version.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
STRFAC_IBSVER_ID	tinyint	N/A	Y	MA_IBSVERSION	IBSVER_ID	
STRFAC_SLA_ID	tinyint	N/A	Y	MA_SLABS	SLA_ID	
STRFAC_COLBM_ID	tinyint	N/A	Y	MA_COLUMNSANDBEAMS	COLBM_ID	
STRFAC_FACTOR	decimal	(5,2)				

Table Name	MA_WALL_SYSTEM					
Table Description	This table holds the wall system reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
WALSYS_ID	smallint	N/A	Y			
WALSYS_DESC	varchar	250				
WALSYS_DISPLAYORDER	tinyint	N/A				
WALSYS_STATUS	tinyint	N/A				1 or 0
WALSYS_HASADDITIONALFACTOR	tinyint	N/A				1 or 0

Table Name	MA_WALL_SYSTEM_FACTOR					
Table Description	This table holds the wall system factor reference data for an IBS version.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
WALSYSFAC_WALSYS_ID	smallint	N/A	Y	MA_WALL_SYSTEM	WALSYS_ID	
WALSYSFAC_IBSVER_ID	tinyint	N/A	Y	MA_IBSVERSION	IBSVER_ID	
WALSYSFAC_FACTOR	decimal	(5,2)				

Table Name	MA_CONSTRUCTION_SOLUTION					
Table Description	This table holds the construction solution reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
CONSOL_ID	tinyint	N/A	Y			
CONSOL_NAME	varchar	500	Y			
CONSOL_MAXPOINT	decimal	(6,2)				

Table Name	MA_CONSTRUCTION_SOLUTION_ITEM					
Table Description	This table holds the construction solution item by default if there is no item one record will be inserted to identify the default reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
CONSOLITM_ID	tinyint	N/A	Y			
CONSOLITM_CONSOL_ID	tinyint	N/A		MA_CONSTRUCTION_SOLUTION	CONSOL_ID	

CONSOLITM_NAME	varchar	250				
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Table Name	MA_CONSTRUCTION_SOLUTION_SUBITEM					
Table Description	This table holds the construction solution sub item for each construction solution item reference data.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
CONSOLSUBITM_ID	Smallint	N/A	Y			
CONSOLSUBITM_CONSOL_ID	tinyint	N/A		MA_CONSTRUCTION_SOLUTION	CONSOL_ID	
CONSOLSUBITM_CONSOLITM_ID	tinyint	N/A		MA_CONSTRUCTION_SOLUTION_ITEM	CONSOLITM_ID	
CONSOLITM_NAME	varchar	250				
CONSOLSUBITM_UNI_ID	tinyint	N/A		MA_UNITS	UNI_ID	

Table Name	MA_CONSTRUCTION_SOLUTION_SUBITEM_FACTOR					
Table Description	This table holds the construction solution sub item factor reference data for an IBS version.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
CONSOLSUBITMFAC_ID	Smallint	N/A	Y			
CONSOLSUBITMFAC_CONSOLSUBITM_ID	tinyint	N/A		MA_CONSTRUCTION_SOLUTION_SUBITEM	CONSOLSUBITM_ID	
CONSOLSUBITMFAC_IBSVER_ID	tinyint	N/A		MA_IBSVERSION	IBSVER_ID	
CONSOLSUBITMFAC_PERUSE_ID	tinyint	N/A		MA_PERCENT_USAGE	PERUSE_ID	
CONSOLSUBITMFAC_FACTOR	decimal	(5,2)				

Table Name	MA_DOCUMENTTYPES					
Table Description	This table holds the type of the document information.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MADOC_TYPEID	smallint	NULL	Y			
MADOC_DESC	varchar	30				

Table Name	MA_GENDER					
Table Description	This table holds the gender information.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MAGEN_ID	smallint	NULL	Y			
MAGEN_DESC	varchar	10				

Table Name	MA_GROUP					
Table Description	This table holds the group information for the menu.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MAGR_ID	smallint	NULL	Y			
MAGR_DESC	varchar	20				

Table Name	MA_SUBGROUP					
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Table Description	This table holds the sub group information for the menu.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASUBGR_ID	smallint	NULL	Y			
MASUBGR_DESC	varchar	20				
MASUBGR_MAGR_ID	smallint	NULL		MA_GROUP	MAGR_ID	

Table Name	MA_SUBGROUP_CATEGORY					
Table Description	This table holds the sub group information for the menu.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASUBGRCAT_ID	smallint	NULL	Y			
MASUBGRCAT_DESC	varchar	80				
MASUBGRCAT_MASUBGR_ID	smallint	NULL		MA_SUBGROUP	MASUBGR_ID	
MASUBGRCAT_ISMANDATORY	bit	NULL				
MASUBGRCAT_DOCTYPEID	smallint	NULL		MA_DOCUMENTTYPES	MADOC_TYPEID	
MASUBGRCAT_HINT	nvarchar	200				
MASUBGRCAT_MESSAGE	nvarchar	200				
MASUBGRCAT_REMARKS	nvarchar	200				

Table Name	MA_SUBGROUP_DOCUMENTS					
Table Description	This table holds the sub group document information for the menu.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description

MASUBDOC_ID	smallint	NULL	Y			
MASUBDOC_MASUBGRCAT_ID	smallint	NULL		MA_SUBGROUP_CATEGORY	MASUBGRCAT_ID	
MASUBDOC_NAME	varchar	150				
MASUBDOC_ISMANDATORY	bit	NULL				
MASUBDOC_DOCTYPEID	smallint	NULL		MA_DOCUMENTTYPES	MADOC_TYPEID	
MASUBDOC_HINT	nvarchar	200				
MASUBDOC_MESSAGE	nvarchar	200				
MASUBDOC_REMARKS	nvarchar	200				
MASUBDOC_VERSION	smallint	NULL				

Table Name	MA_NATIONALITY					
Table Description	This table holds the nationality information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MANAT_ID	smallint	NULL	Y			
MANET_DESC	varchar	100				

Table Name	MA_USERSTATUS					
Table Description	This table holds the user current status information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MAUS_STATUSID	smallint	NULL	Y			
MAUS_DESC	varchar	30				

Table Name	MA_USERTYPES					
Table Description	This table holds the type of the user information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MAUS_TYPEID	smallint	NULL	Y			
MAUS_TYPEDESC	varchar	50				

Table Name	MA_SCRAPPSTATUS					
Table Description	This table holds the status type of the score application .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASCRAPP_STATUSID	smallint	NULL	Y			
MASCRAPP_DESC	varchar	30				

Table Name	MA_STRUCTCATEGORY					
Table Description	This table holds the structure category of the score application .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASTRUCTCA_ID	smallint	NULL	Y			
MASTRUCTCA_DESC	nvarchar	MAX				

Table Name	MA_STRUCT_SUBCATEGORY					
Table Description	This table holds the structure sub category of the score application .					

Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASTRUCTSUBCAT_ID	smallint	NULL	Y			
MASTRUCTSUBCAT_DESC	nvarchar	MAX				
MASTRUCTSUBCAT_MASTRUCTCA_ID	smallint	NULL		MA_STRUCTURECATEGORY	MASTRUCTCA_ID	

Table Name	MA_STRUCT_WALLTYPE					
Table Description	This table holds the wall type of the score application .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
MASTRUCTWAL_ID	smallint	NULL	Y			
MASTRUCTWAL_DESC	nvarchar	MAX				

Table Name	MA_DISTRICT					
Table Description	This table holds the district information for the system.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
Description	varchar	50				
MaCode	varchar	50				
Sequence	int	NULL				
stateid	int	NULL				
id	int	NULL	Y			
branchid	int	NULL				
isActive	int	NULL				

Table Name	MA_STATE					
Table Description	This table holds the state information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
Id	int	NULL	Y			
Description	varchar	50				
MaCode	varchar	50				
Sequence	int	NULL				
MaStateCarPlateNo	char	1				
MaStateCode	char	10				
isActive	int	NULL				
BPKUID	int	NULL				

Table Name	MA_TOWN					
Table Description	This table holds the town information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
TownId	int	NULL	Y			
POSTCODE	nvarchar	10				
TOWNNAME	nvarchar	200				
isActive	nvarchar	1				

Table Name	MA_MAPOSTCODESTATEDISTRICT					
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Table Description	This table holds the mapping information for the postcode state and district.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
Postcode	nvarchar	10				
District	nvarchar	60				
State	nvarchar	60				
StateCode	nvarchar	5				

Table Name	APP_USER					
Table Description	This table holds the user information for the system.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
APPUS_UNIQUEID	uniqueidentifier	NULL	Y			
APPUS_USERID	varchar	20				
APPUS_NRICPASSPORT	varchar	20				
APPUS_HASHEDPASSWORD	varchar	255				
APPUS_FIRSTNAME	varchar	50				
APPUS_LASTNAME	varchar	50				
APPUS_DOB	date	NULL				
APPUS_MAGEN_ID	smallint	NULL		MA_GENDER	MAGEN_ID	
APPUS_EMAIL	varchar	100				
APPUS_MANAT_ID	smallint	NULL		MA_NATIONALITY	MANAT_ID	
APPUS_PHONENUMBER	varchar	20				

APPUS_ADDRESS1	nvarchar	100			
APPUS_ADDRESS2	nvarchar	100			
APPUS_TOWNID	smallint	NULL			
APPUS_DISTRICTID	smallint	NULL			
APPUS_STATEID	smallint	NULL			
APPUS_ZIPCODE	varchar	10			
APPUS_MAUUS_TYPEID	smallint	NULL		MA_USERTYPES	MAUS_TYPEID
APPUS_MAUUS_STATUSID	smallint	NULL		MA_USERSTATUS	MAUS_STATUSID
APPUS_CREATEDBY	varchar	50			
APPUS_CREATEDDATE	datetime	NULL			
APPUS_MODIFIEDBY	varchar	50			
APPUS_MODIFIEDDATE	datetime	NULL			
APPUS_SUBMITTEDDATE	datetime	NULL			
APPUS_PAIDDATE	datetime	NULL			

Table Name	APP_USER_DOCUMENTS					
Table Description	This table holds the documents of the user information .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
USDOC_ID	uniqueidentifier	NULL	Y			
USDOC_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
USDOC_REF_ID	bigint	NULL				
USDOC_TYPE	varchar	20				
USDOC_MASUBDOC_ID	smallint	NULL		MA_SUBGROUP_DOCUMENTS	MASUBDOC_ID	
USDOC_FILENAME	varchar	255				

USDOC_LOCATION	nvarchar	255				
USDOC_APPROVAL_STATUS	varchar	50				
USDOC_REMARKS	nvarchar	50				
USDOC_SIZE	int	NULL				
USDOC_CREATEDBY	varchar	50				
USDOC_CREATEDDATE	datetime	NULL				

Table Name	APP_USER_GENERAL					
Table Description	This table holds the general information of the user .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
USGEN_ID	bigint	NULL	Y			
USGEN_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
USGEN_MASUBGRCAT_ID	smallint	NULL		MA_SUBGROUP_CATEGORY	MASUBGRCAT_ID	
USGEN_APPROVAL_STATUS	varchar	50				
USGEN_REMARKS	nvarchar	50				

Table Name	APP_USER_PASSWORDLOGS					
Table Description	This table holds the log for user password .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
USPWDLOG_ID	bigint	NULL	Y			

USPWDLOG_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
USPWDLOG_APPUS_USERID	varchar	20				
USPWDLOG_TEMP_HASHEDPASSWORD	varchar	255				
USPWDLOG_TYPE	varchar	50				
USPWDLOG_STATUS	varchar	30				
USPWDLOG_REMARKS	varchar	50				
USPWDLOG_CREATEDBY	varchar	50				
USPWDLOG_CREATEDDATE	datetime	NULL				

Table Name	APP_USER_PROFESSION					
Table Description	This table holds the details of user profession .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
USPRO_ID	bigint	NULL	Y			
USPRO_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
USPRO_MASUBGRCAT_ID	smallint	NULL		MA_SUBGROUP_CATEGORY	MASUBGRCAT_ID	
USPRO_ORGANIZATIONNAME	varchar	100				
USPRO_STARTDATE	datetime	NULL				
USPRO_ENDDATE	datetime	NULL				
USPRO_REGISTERNUMBER	nvarchar	50				

USPRO_ORGANIZATIONADDRESS1	nvarchar	100				
USPRO_ORGANIZATIONADDRESS2	nvarchar	100				
USPRO_TOWNID	int	NULL				
USPRO_DISTRICTID	int	NULL				
USPRO_STATEID	int	NULL				
USPRO_ZIPCODE	varchar	10				
USPRO_APPROVAL_STATUS	varchar	50				
USPRO_REMARKS	nvarchar	50				

Table Name	APP_USER_STATUSLOGS					
Table Description	This table holds the details of user status log .					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
USSTLOG_ID	bigint	NULL	Y			
USSTLOG_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
USSTLOG_APPUS_USERID	varchar	20				
USSTLOG_MAUUS_STATUSID	smallint	NULL		MA_USERSTATUS	MAUS_STATUSID	
USSTLOG_CREATEDBY	varchar	50				
USSTLOG_CREATEDDATE	datetime	NULL				

Table Name	SCORE_APPLICATION					
Table Description	This table holds the information of the score application.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRAPP_UNIQUEID	uniqueidentifier	NULL	Y			
SCRAPP_APPUS_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	
SCRAPP_REFERENCENO	nvarchar	30				
SCRAPP_MASUBGR_ID	smallint	NULL		MA_SUBGROUP	MASUBGR_ID	
SCRAPP_MASCRAPP_STATUSID	smallint	NULL		MA_SCRAPPSTATUS	MASCRAPP_STATUSID	
SCRAPP_RESUBMITCOUNT	smallint	NULL				
SCRAPP_DERIVEDSCORE	decimal	NULL				
SCRAPP_REVIEWERSCORE	decimal	NULL				
SCRAPP_STATUSDATE	datetime	NULL				
SCRAPP_CREATEDDATE	datetime	NULL				
SCRAPP_CREATEDBY	varchar	50				
SCRAPP_REVIEWEDBY	varchar	50				
SCRAPP_REVIEWEDDATE	datetime	NULL				

Table Name	SCORE_APPSTATUS_LOG					
Table Description	This table holds the log for the status of the user.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRAPPSTATLOG_ID	bigint	NULL	Y			
SCRAPPSTATLOG_STATUS	varchar	30				

SCRAPPSTATLOG_DERIVEDSCORE	decimal	NULL				
SCRAPPSTATLOG_REVIEWERSCORE	decimal	NULL				
SCRAPPSTATLOG_CREATEDBY	varchar	50				
SCRAPPSTATLOG_CREATEDDATE	datetime	NULL				

Table Name	SCORE_PROJECT					
Table Description	This table holds the project information of the score application.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRPRO_ID	bigint	NULL	Y			
SCRPRO_SCRAPP_UNIQUEID	uniqueidentifier	NULL		SCORE_APPLICATION	SCRAPP_UNIQUEID	
SCRPRO_PRJNAME	nvarchar	200				
SCRPRO_CONTNAME	nvarchar	200				
SCRPRO_CONTVALUE	decimal	NULL				
SCRPRO_DEVNAME	nvarchar	200				
SCRPRO_ARCCONS	nvarchar	200				
SCRPRO_ENGNAME	varchar	200				

Table Name	SCORE_BUILDINGSTRUCTURE					
Table Description	This table holds the building information of the score application.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRBUSTRUCT_ID	bigint	NULL	Y			

SCRBUSTRUCT_SCRPRO_ID	bigint	NULL		SCORE_PROJECT	SCRPRO_ID	
SCRBUSTRUCT_SCRAPP_UNIQUEID	uniqueidentifier	NULL		SCORE_APPLICATION	SCRAPP_UNIQUEID	
SCRBUSTRUCT_MASTRUCTCA_ID	smallint	NULL		MA_STRUCTCATEGORY	MASTRUCTCA_ID	
SCRBUSTRUCT_MASTRUCTSUBCAT_ID	smallint	NULL		MA_STRUCT_SUBCATEGORY	MASTRUCTSUBCAT_ID	
SCRBUSTRUCT_MASTRUCTWAL_ID	smallint	NULL		MA_STRUCT_WALLTYPE	MASTRUCTWAL_ID	
SCRBUSTRUCT_NOTES	nvarchar	MAX				
SCRBUSTRUCT__DERIVEDSCORE	decimal	NULL				
SCRBUSTRUCT__REVIEWERSCORE	decimal	NULL				
SCRBUSTRUCT_MASCRAPP_STATUSID	smallint	NULL		MA_SCRAPPSTATUS	MASCRAPP_STATUSID	

Table Name	SCORE_DOCUMENTS					
Table Description	This table holds the document information of the score application.					
Column Name	Data Type	Size	PK	FK Table	FK Column	Description
SCRDOC_ID	uniqueidentifier	NULL	Y			
SCRDOC_SCRPRO_ID	bigint	NULL		SCORE_PROJECT	SCRPRO_ID	
SCRDOC_SCRAPP_UNIQUEID	uniqueidentifier	NULL		APP_USER	APPUS_UNIQUEID	

SCRDOC_MASUBDOC_ID	smallint	NULL		MA_SUBGROUP_DOCUMENT S	MASUBDOC_ID	
SCRDOC_FILENAME	varchar	255				
SCRDOC_LOCATION	nvarchar	255				
SCRDOC_APPROVAL_STATUS	varchar	50				
SCRDOC_REMARKS	nvarchar	50				
SCRDOC_SIZE	int	NULL				
SCRDOC_CREATEDBY	varchar	50				
SCRDOC_CREATEDDATE	datetime	NULL				

6.0 DEVELOPMENT TECHNOLOGY AND FRAMEWORK.

.Net Core 6

IBS System uses .NET 6 which unifies the SDK, base libraries, and runtime across mobile, desktop, IoT, and cloud apps.

Better performance: .NET 6 is the fastest full stack web framework

Ultimate productivity: .NET 6 and [Visual Studio 2022](#) provide hot reload, new git tooling, intelligent code editing, robust diagnostics and testing tools, and better team collaboration.

Hot reload

Hot reload is a feature that lets you modify your app's source code and instantly apply those changes to your running app. The feature's purpose is to increase your productivity by avoiding app restarts between edits. Hot reload is available in Visual Studio 2022.

New JSON serialization interfaces for validation and defaulting values

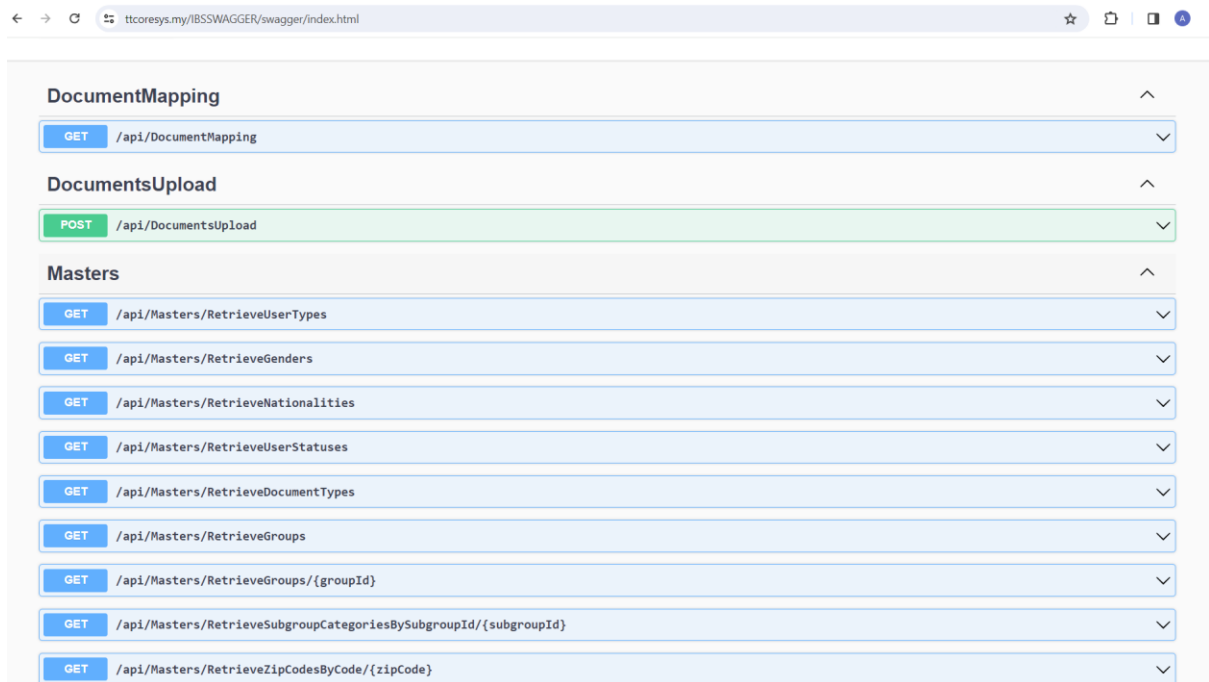
SignalR

Long running activity tag for SignalR connections

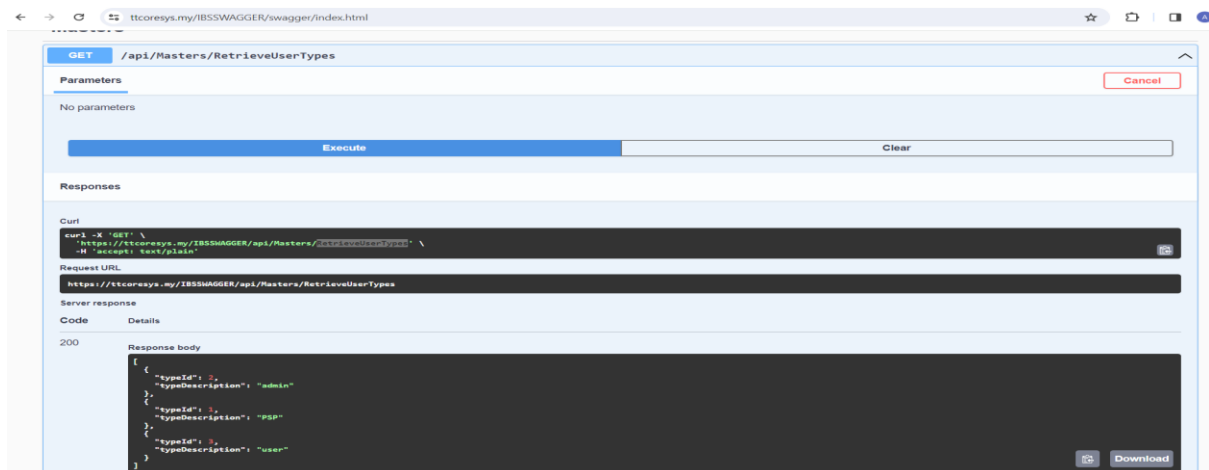
Swagger OpenAPI in IBS

- An OpenAPI file allows you to describe your entire API, including:
 - Available endpoints (/users) and operations on each endpoint (GET /users, POST /users)
 - Operation parameters Input and output for each operation
 - Authentication methods

This is how the Swagger UI displays the methods used in Score system.



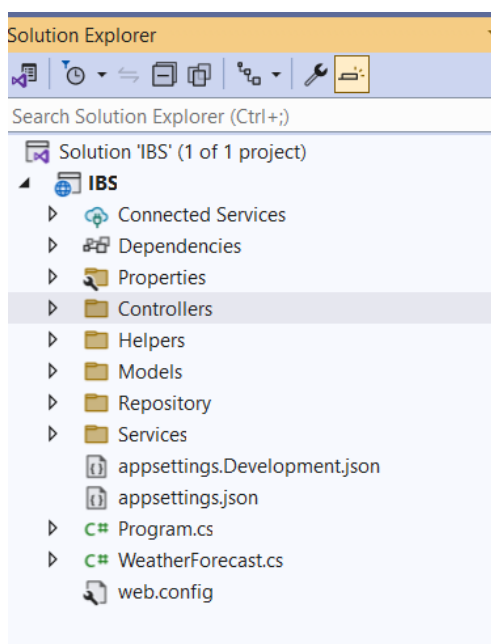
RetrieveUserTypes method in the project.



- Implementing JWTToken(JSON Web Token) authentication and authorization techniques to secure the Web API.

The IBS project comprises of the following folders:

1. Controllers-Contains the Action methods to process the http Url request from the browser.
2. Helpers-Contains Helper methods needed for our application
3. Models – Contains the models.
4. Repository-Contains the database connection methods and functions.
5. Services-Contains the business logic required for the application.



Angular Material – Front-end framework.

IBS system uses Angular Material as the front-end framework maintained by Google, as it offers several advantages for web application development:

The IBS system follows the development of applications in a modular way through its component-based architecture. This makes it easier to manage and scale large applications by breaking them down into smaller, reusable components.

The IBS system follows Angular’s Two-way Data Binding system which automatically synchronizes the data between the model and the view, eliminating the need for writing boilerplate code to manually update the view when the model changes and vice versa. This simplifies development and reduces the likelihood of bugs.

The IBS system Angular Performance Optimization provides various optimization techniques such as ahead-of-time (AOT) compilation, lazy loading, and tree shaking to improve the performance of web applications. These optimizations help reduce load times and enhance the overall user experience.

7.0 APPROACH

8.0 PROJECT STAGES