



UNIVERSITI TEKNOLOGI MALAYSIA, JOHOR BAHRU

FACULTY OF COMPUTING

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SCSV1223 – WEB PROGRAMMING

**PROJECT REPORT -
DATA-CENTRIC ONLINE SYSTEM:
STUDENTS' COLLEGE ACCOMMODATION SYSTEM
[COLLEGE of HOPE]**

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Table of Contents

1.0 PROJECT OVERVIEW	3
2.0 TOOLS & TECHNOLOGY	3
3.0 MODULES	4
4.0 FUNCTIONALITY	5
5.0 DATABASE AND TABLES	6
6.0 SQL FILE TEXT	8
7.0 USER MANUAL.....	10
7.1 ADMINISTRATOR	12
7.2 ACCOMMODATION MANAGER.....	15
7.3 STUDENT	18
8.0 CONCLUSION.....	22

1.0 PROJECT OVERVIEW

The project is about students' college accommodation system. This system aims to provide a convenient way for both accommodation managers and students. By using this system, the manager can manage the students' application systematically and student can apply their hostel for the next sem without going to the office counter. In this system, a few assumptions are made, which included that there are only 5 blocks of the hostel (3 male blocks and 2 female blocks) for the students to apply, the duration of the hostel (if success) is two semesters, students can only choose the block and room type of the hostel, room number is not available for them, and they have to wait for their application to be updated by the manager. The manager will then approve or reject the application and assign a room for the approved application. To register for our system, students can press sign up at the login page to create an account. Unfortunately, for manager to have an account, they need to the help of admin to create it for them. The administrators of our system can view all the pages in the system, while managers can only view their own manager page and student page, and students can only view student's page.

There are three modules of the system:

- A. Administrators (Admin)
- B. Accommodation managers
- C. Students

2.0 TOOLS & TECHNOLOGY

- HTML : Basic webpage layout.
- CSS : To design the layout of our HTML.
- PHP : To perform form handling and connecting to the database
- MYSQL : To be used with PHP
- JAVASCRIPT: To validation form

3.0 MODULES

1. Administrator

- ✓ Administrators can manage the websites and the database of the system.
- ✓ Administrators can update their own self personal information, which included name, email, phone number and password.
- ✓ Administrators can create a new admin account.
- ✓ Administrators have the right on data manipulation, which included adding new users, edit and delete any information on both accommodation managers and students.
- ✓ Administrators can edit the block database details.
- ✓ Administrators can also view the pages of staff and student.

2. Accommodation Managers

- ✓ Accommodation managers can view their own self personal information.
- ✓ Accommodation managers can update their own self personal information, which included name, email, phone number, password, gender, IC no. and address.
- ✓ Accommodation managers can view the students' application.
- ✓ Accommodation managers have the right to approve or reject the students' application based on the availability of the requested block.
- ✓ Accommodation managers can manipulate the data of hostel (blocks) details.

3. Students

- ✓ Students can view their own self personal information.
- ✓ Students can update their own self personal information, which included name, email, phone number, password, gender, IC no. and address.
- ✓ Students can apply for a hostel for the next two semesters, by filling up necessary information in a form and submit.
- ✓ Students can check their application status after submitting the application.

4.0 FUNCTIONALITY

- **Administrators**

1. Manage and update their own profile
2. Create new administrators account
3. Create a new accommodation manager and students account.
4. Manage, edit and update accommodation managers and students' account.
5. Manage the block database detail

- **Accommodation manager**

1. View and update own self personal information.
2. View or delete students' application
3. Manage students' application, either approved or rejected, based on the availability of the requested block.
4. Manager can edit, update and delete the information of the block, for example, update the room number of the students.

- **Students**

1. View own self personal information.
2. Manage and update own self personal information.
3. Apply the hostel by choosing the block and room type desired.
4. View the application status, whether “approved” or “rejected”.

Extra Functionality

- Viewing a sorted / filtered list of tables
- Passing values with session
- Cookies with session
- User Level session
- Map selection with hover effect
- Sign up Form validation
- User id and password validation

5.0 DATABASE AND TABLES

Database Name: db_tsx

Table:

1. **Name** : **User**

Usage : To store the users' details.

Description : In this table, there is a total of 3 users' details, which are administrators, accommodation managers and students as well. The information included id(primary key), password, name, email, phone number, gender, IC number, address, block, room number and user type. At first, the block and room number are null until the student had success in their hostel application, then the block and room number will update by the accommodation manager.

Relate Table : Application table, Block table

2. **Name** : **Application**

Usage : To store the hostel application details and information.

Description : The information contains in this table included application id(primary key), matric number, block, room number, room type, date applied, time applied and status. Status is used to store the status of the hostel application, whether is approved or rejected. Once the student had successfully made apply, the application table will updated.

Relate Table : User table, Block table

3. **Name** : **Block**

Usage : To store the information of the block and id of the student who stays.

Description : This table will have a fixed amount of rows of data, which record the details of each room in every block. The table will determine who occupied the room in a block. The information in the table included block, roomNo (primary key), roomType, gender, id1 and id2. In the beginning, the id1 and id2 will be null to indicate that all the room are not occupied yet. The information will be updated by staff once the application of the students is being approved. Id1 and id2 are used to store the detail of 2 students if the room type is a double room, if the room type is a single room, the student id will be stored in both id1 and id2.

Relate Table : User table, Application table

5.1 DATABASE DESIGN WITH ENTITY RELATIONSHIP DIAGRAM

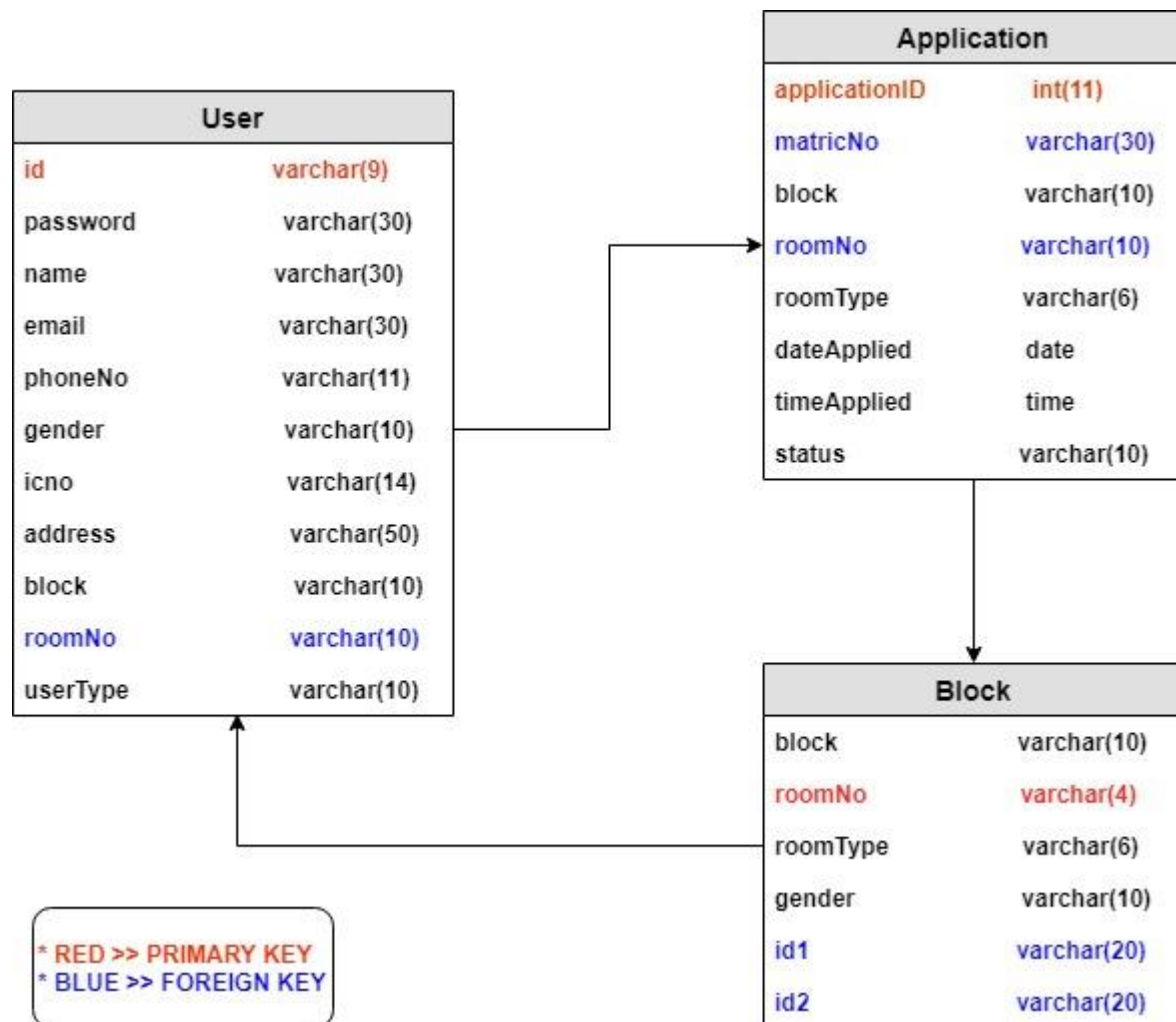


Diagram # shows the ERD Database Design of the system

6.0 SQL FILE TEXT

```
$sql = "CREATE TABLE Block
(
    block varchar(10),
    roomNo varchar(10),
    roomType varchar(20),
    gender varchar(10),
    id1 varchar(9),
    id2 varchar(9)
)";
mysql_query($sql);
```

Diagram # shows the sql query of create table block

First we create 3 table which are User, Block and Application. Diagram # shows the example of creating table block. We use the sql query CREATE TABLE and setting the attribute type of each attribute.

```
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A01', 'single', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A02', 'single', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A03', 'single', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A04', 'single', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A05', 'single', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A06', 'double', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A07', 'double', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A08', 'double', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A09', 'double', 'male')");
mysql_query("INSERT INTO Block (block, roomNo, roomType, gender)VALUES ('Block A', 'A10', 'double', 'male')");
```

Diagram # shows the sql query of INSERT INTO

We initialize the table of block with the data of block, room no, room type and room gender without the id1 and id2 which will be update later. Sql Query of INSERT INTO are being used. This query will insert a row of data into the respective table.

```
$result=mysql_fetch_array(mysql_query("SELECT * FROM User WHERE id='$id'"));
```

Diagram # shows the sql query of SELECT

The SQL Query of SELECT are being used to retrieve the data of the selected rows. This query allow us to compare data, get data, and view data. This query are being used most of the time in our system.

```
mysql_query("INSERT INTO Block (block,roomNo,roomType,gender,id1,id2)
VALUES ('$block','$roomNo','$roomType','$gender','$id1','$id2')");
$_SESSION["EXISTEDMESSAGE"] = "New Block Added";
```

Diagram # shows the sql query of INSERT INTO in Block

This SQL Query are also being used when admin add a new data into a table.

```
mysql_query("DELETE FROM User WHERE id='$id'");
```

Diagram # shows the sql query of DELETE FROM

The DELETE FROM sql query are used to delete a row of data from the table. The WHERE query are used to determine which row to select.

```
mysql_query("UPDATE Application SET status = 'APPROVED' WHERE applicationID = '$id'");
```

Diagram # shows the sql query of UPDATE

The SQL Query are used to update the data in the table. The diagram above shows the section of query where Manager will update the status in application of a student to APPROVED.

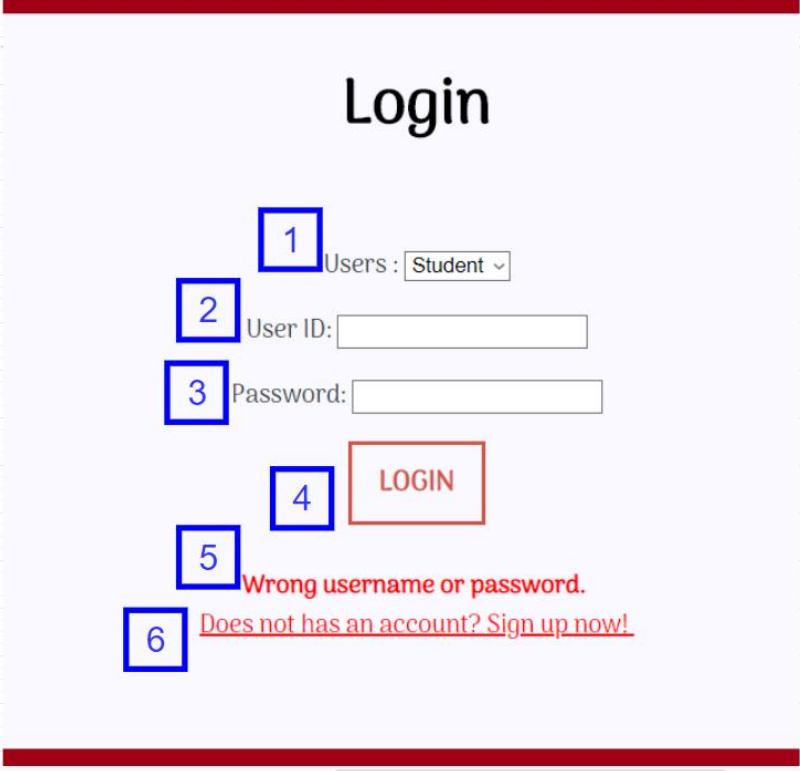
```
'SELECT Application.matricNo,
Application.applicationID,
Application.block,
Application.roomNo,
Application.roomType,
Application.dateApplied,
Application.timeApplied,
Application.status,
User.name,
User.gender FROM Application inner join User On Application.matricNo = User.id order by name');
```

Diagram # shows the sql query of ORDER BY

The ORDER BY query is being used to sort the data. The diagram above shows the query of sorting the data in application by name. This function are being used by Manager to view a sorted list of application data.

7.0 USER MANUAL

A. Login Page

 <p>The screenshot shows a login interface with the following elements and annotations:</p> <ul style="list-style-type: none">1: A dropdown menu labeled "Users :" with "Student" selected.2: A text input field labeled "User ID:".3: A text input field labeled "Password:".4: A red rectangular button labeled "LOGIN".5: A red text message: "Wrong username or password."6: A red text message: "Does not has an account? Sign up now!".	<p>Note:</p> <ol style="list-style-type: none">1. This will let the users to select which user type to log in as.2. User needs to fill in the their own USER ID3. This section will let the user to key in their password4. To login their account, user can press this button5. This line will tell the user if they had entered the wrong username or password6. This section will allow the user to go to the sign up page
---	--

B. Sign up

1

Sign Up

MATRIC NO (ID):	<input type="text"/>	NAME:	<input type="text"/>
IC NO.:	<input type="text"/>	GENDER:	<input checked="" type="radio"/> Male <input type="radio"/> Female
PASSWORD:	<input type="text"/>	CONFIRM PASSWORD:	<input type="text"/>
PHONE NO:	<input type="text"/>		
EMAIL:	<input type="text"/>		
ADDRESS:	<input type="text"/>		

ID already exists. Please re-insert your ID. 5

CONFIRM

RESET

BACK TO LOGIN

234

gmm-student.fc.utm.my says


Please enter your matric number (ID).
Thank You~

OK

6

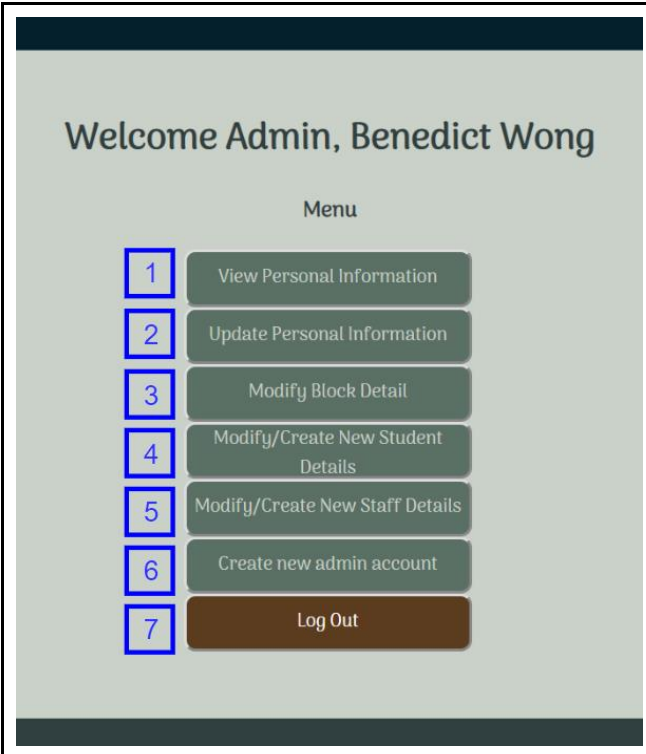
Note:

1. Student can fill in their details for signing up over here.
2. Press the confirm button to confirm the sign up
3. The reset button will clear all the form input
4. This button will return the user back to the login page
5. This message will shows if the user registered with an existed ID
6. Form validation are being done here.
This message will be shown if the users doesn't enter the correct information

	<p>Note:</p> <p>After succesfully signed up, user will enter this page and a button will redirect the user back to the login page once pressed.</p>
--	---

7.1 ADMINISTRATOR

A. Admin Main Page

	<p>This is the main page of admin with a selection menu</p> <ol style="list-style-type: none"> 1. Click to view personal infomation of admin 2. Click to update personal information 3. Click the modify the college block database 4. Click to modify student details 5. Click to modify staff details 6. Click to create new admin account 7. Click to log out
--	---

B. Admin Profile Page

Personal Information

1

ID	Admin01
Password	123456
Name	Benedict Wong
Email	benedict@gmail.com
Phone No	0102939993
Gender	Male
IcNo	851002073223
Address	UTM

2

BACK TO HOMEPAGE

1. The personal information of admin.
2. This button will redirect the user back to their main/home page.

C. Update Admin Account information

Update Account Information

1

ID	Admin01
Password
Name	Benedict Wong
Email	benedict@gmail.com
Phone No.	0102939993
Gender :	Male
IcNo :	851002073223
Address :	UTM

2

Update

3

BACK TO HOMEPAGE

This page allow the admin to edit his/her own account information

1. Admin can edit their information in this section.
2. Once changes are done, press UPDATE button to change the details.
3. Press this button to go back to the homepage.

Block

Block Database Management

1

Block

Room No.

Room Type

Gender

Id 1

Id 2

2

Add

Reset

3

4

7

BACK TO HOMEPAGE

Block	Room No	Room Type	Gender	Id 1	Id 2	Action	
Block A	A01	single	male	A17CS0011	A17CS0011	Edit	Delete
Block A	A02	single	male			Edit	Delete
Block A	A03	single	male			Edit	Delete
Block A	A04	single	male			Edit	Delete
Block A	A05	single	male			Edit	Delete

Update

Cancel

BACK TO HOMEPAGE

5

6

Staff

Staff Account Management

ID:

Password:

Name:

Email:

Phone:

Gender:

IdNo:

Address:

Add

Reset

BACK TO HOMEPAGE

ID	Name	Email	Phono No	Gender	Id No	Address	Password	Action
ST001	Jacky ChanZhan	jacky99@gmail.com	011234567	Male	881212 01-1234	Jalan resak,55555 Skudai,38.	123156	Edit Delete

Student

Student Account Management

Matric No (ID):

Parent(s) E:

Name:

Email:

Phone:

Gender:

Relig:

Address:

Block:

Room No.:

Add

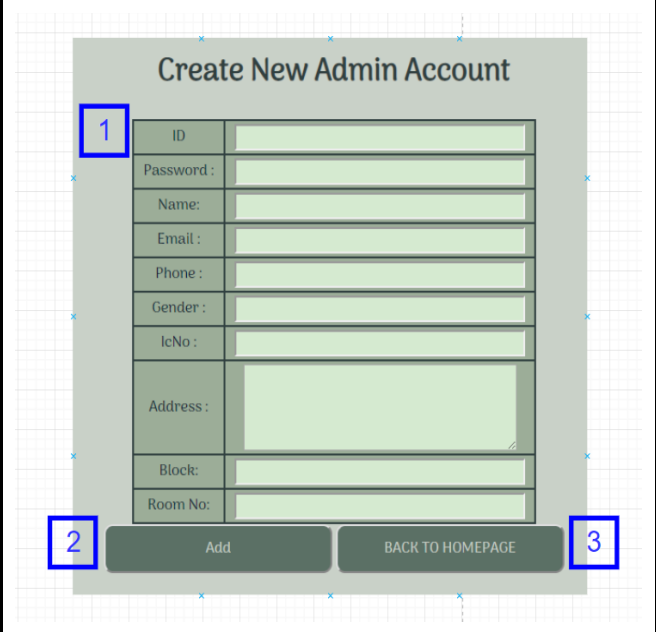
BACK TO HOME PAGE

Matric No (ID)	Password	Name	Email	Phone No	Gender	Ic No	Address	Block	Room No	Action
AT150001	TTTTT	Angela Liza	angy13@gmail.com	0625999688	male	9711005763	Batu Pahat	Block A	A01	Edit
AT150002	123	Fara	farahdiaz@gmail.com	0625440491	Female	970101021008	skudai			Edit
AT150022	123 456	Tae Chi Kuo	gk@gmail.com	07522015	Female	970050262524	Bahau			Edit
AT150035	573464	Low Chai Hong	lowch@gmail.com	0974663555	Female	971100181620	NAB (BTM BOPHS) Skudai, Johor Bahru			Edit
AT150077	777777	Hellio Kikig	hellio1991@gmail.com	0177777777	Male	971100181620	skudai			Edit

This page is for block database management, the function of this page are the same with student account management page and staff account management page.

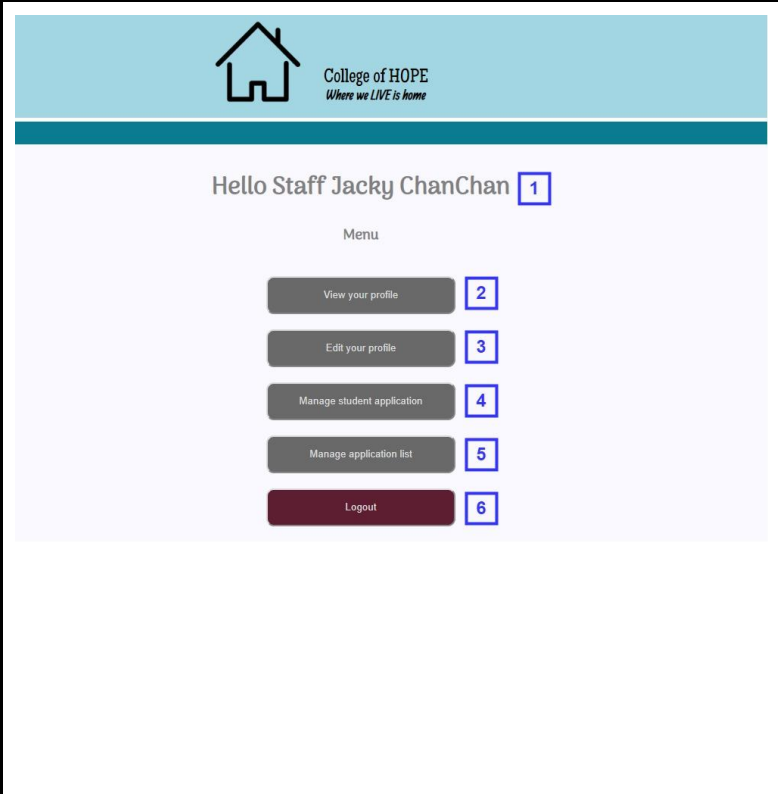
1. This section let the admin to fill in the details of the database
2. Click this button to add new rows of data
3. Click this button to clear the form
4. This section shows the list of the database in the table.
5. Press this button to edit the database of the rows. Once press, the admin can edit in the information in #1 section. The button at #2 will change to Update where once click, the information will be updated
6. Press this button to delete the selected rows of database.
7. Press this button to goes back to homepage

E. Create New Admin Account

	<p>This page can create new admin account.</p> <ol style="list-style-type: none">1. This section is to key in all the required information for creating the admin account.2. Press this button to create3. Press this button to goes back to the homepage.
---	--

7.2 ACCOMMODATION MANAGER

A. Accommodation Manager Main Page

	<ol style="list-style-type: none">1. Show the accommodation manager's name once they successfully login in.2. Click to view own self profile.3. Click to edit own self profile.4. Click to manage student application.5. Click to Manage application list.6. Click to log out.
---	---

B. Accommodation Manager Profile Page

View Profile 1

Staff ID ST001

Name Jacky ChanChan

Email jack99@gmail.com

Phone No 0111234567

Gender Male

IC No. 881212-01-1234

Address Jalan rusak,55555 Skudai,JB.

BACK TO HOME PAGE 2

1. Show the details of the staff.
2. Click “Back to home page” to back to the home page.

C. Accommodation Manager Update Profil Page

Edit Profile 1

STAFF ID:	ST001	NAME:	Jacky ChanChan
IC NO.:	881212-01-1234	GENDER:	<input checked="" type="radio"/> Male <input type="radio"/> Female
Password:		Confirm Password:	
Phone No:	0111234567		
Email:	jack99@gmail.com		
Address	Jalan rusak,55555 Skudai,JB.		

Update 2

BACK TO HOME PAGE 3

1. The information contains in the table enable the accommodation manager to update that information.
2. Click to confirm the update.
3. Click to back to the homepage.

D. Manage Student Application

All Only Approve Only Reject Sort by Name Sort by Date Sort by Gender Sort by Block

1

ApplicationID	Matric NO	Name	Gender	Block	Room Type	Room No	Date	Time	Status	Action
29	A17CS0011	Andy Lau	male	Block A	Single	A01	2019-05-11	04:58:38	APPROVED	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
30	A23CB1200	Mickey Mouse	male	Block B	single	B01	2019-05-11	16:00:00	APPROVED	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
31	A17CS0212	Tan Chi Ko0	female	Block E	Single		2019-05-11	09:53:36	REJECTED	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
32	A17CS0202	Fish	Female	Block D	Single		2019-05-13	08:00:37	processing	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

BACK TO HOME PAGE 4

6 Room is Occupied

Room No Submit Cancel 5

This page allow the manager to approve or reject the application of student

1. This section allow the manager to filter the list, either to show only the result they want or

	<p>to sort the list</p> <ol style="list-style-type: none"> 2. Press this button to approve the application. Once press the section in number 5 will be shown 3. Press this button to reject the application 4. Press this button to return to homepage 5. This section let the manager to assign the room no for the approved student. This section will only be shown once an approve are pressed 6. This message will shown when the assign room are already occupied
--	--

E. Manage Application List

Delete application data

ApplicationID	Matric NO	Block	Room Type	Room No	Date	Time	Status	Action
29	A17CS0011	Block A	Single	A01	2019-05-11	04:58:38	APPROVED	Delete
30	A23CB1200	Block B	single	B01	2019-05-11	16:00:00	APPROVED	Delete
31	A17CS0212	Block E	Single		2019-05-11	09:53:36	REJECTED	Delete
32	A17CS0202	Block D	Single		2019-05-13	08:00:37	processing	Delete


BACK TO HOME PAGE

This page allow manager to delete application list

1. Click the delete button to delete
2. Click the button to return to homepage

7.3 STUDENT

A. Student Main Page



College of Hope
Where we LIVE is home

Welcome Student, Andy Lau !

Student Profile

Update Profile


Hostel Application

Check Hostel Status

Log Out

1. Show student's name once they successfully login in.
2. Click to go student profile page.
3. Click to go update profile page.
4. Click to go Hostel application.
5. Click to log out.

B. Student Profile page



College of Hope
Where we LIVE is home

PERSONAL DETAILS

MATRIC NO (ID):	A17C50011	NAME:	Andy Lau
IC NO.:	971110017631	GENDER:	male
PASSWORD:	111111	PHONE NO.:	0129999888
BLOCK:		ROOM NO.:	
EMAIL:	andy11@gmail.com		
ADDRESS:	Batu Pahat		

BACK TO HOME PAGE

1. The table shows the personal details of the student.
2. Click to back to the homepage.

C. Student Update Profile page

UPDATE INFORMATION

NAME	Andy Lau
PASSWORD	111111
IC	971110017631
GENDER	male
PHONE NO.	0129999888
EMAIL	andy11@gmail.com
ADDRESS	Batu Pahat

CONFIRM UPDATE

BACK TO HOME PAGE


1. The information contains in the table enable the students to update that information.
2. Click to confirm the update.
3. Click to back to the homepage.

D. Student Hostel Application (Hostel selection)

HOSTEL APPLICATION

Please follow the following instructions :


STEP 1: Please choose which block to register.



The map shows a campus layout with streets: Main St., Spruce St., Second St., Spring St., Fourth St., and Fifth St. Buildings include Faculty Engineering (labeled with a blue box and '2'), Faculty Science, Block A, Block B, Block C, Block D, and Block E. A red dashed line outlines a specific area on the map.


1. Show the selection of the hostel. Once student hovers over the target hostel, how many rooms available will be shown.
2. Show the landmark around the college.

E. Student Hostel Application [Room Type Selection]




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Where we LIVE is home

STEP 2: Please choose the room type.



1

SINGLE ROOM



2

DOUBLE ROOM

1. Click to choose a single room.
2. Click to choose a double room.

F. Student Hostel Application [Check Application details]


STEP 3: Please check the details. 1	
NAME	Andy Lau
MATRIC NO.	A17CS0011
IC	971110017631
GENDER	male
BLOCK APPLIED	Block D
ROOM TYPE APPLIED	Double
DATE APPLIED	2019/05/13
DATE APPLIED	07:47:29pm

CONFIRM 2

BACK TO HOME PAGE 3


1. The table contains the information about the application, for example, the block applied, room type applied and so on.
2. Click “Confirm” to submit the application.
3. Click “Back to home page” to back to the home page, without submission.

G. Student Hostel Application [Successfully applied for the hostel]

 College of Hope <i>Where we LIVE is home</i>	
<h2>Your Application has been Confirmed... 1</h2> <p>and will be process shortly, please check after a few days. 2</p> <div style="text-align: center;">BACK TO HOME PAGE 3</div>	

1. Show that the student successfully submits the application.
2. Reminder student to check the application after a few days.
3. Click “Back to home page” to back to the home page.

H. Student Hostel Application [Not successfully applied for the hostel]



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Where we LIVE is home

You are NOT allow to make any application. 1

You had already made an application that may be in process or approved. 2

[BACK TO HOME PAGE](#) 3

1. Show that the student fails to submit the application.
2. Show the reason. (as one student only allowed to make one application.)
3. Click “Back to home page” to back to the home page.

I. Student Check Hostel Status [Approved, Processing or Rejected]

HOSTEL APPLICATION RESULT, SESSION 2019/2020 1

MATRIC NO (ID):	A17CS0202	NAME:	Fish
IC NO.:	970101020101	GENDER:	Female
BLOCK:	Block D	ROOM NO.:	
ROOM TYPE:	Single		
STATUS:	processing 2		

[BACK TO HOME PAGE](#) 3

1. The table contains the application details and the application status as well.
2. Show the “Status” of the application, either “Approved”, “Processing”, or “Rejected”.
3. Click “Back to home page” to back to the home page.

8.0 CONCLUSION

In conclusion, College of Hope Students' College Accommodation System aims to provide a convenient and effective way for both the accommodation managers and students. With this system, students can apply their hostel anywhere rather than burden them to walk in the register at the office. They can also check the status of their application through this system. Therefore, this system can prevent the long queue as well.

Besides, every record of the students' hostel application keeps privately in the Application table, only managers can view and manage it. By doing this, students are safe to use the system without worries. Accommodation manager can sort the record by using either the data applied, name, gender or block. With this feature, the process for the manager to approve the status of the applications is much easier, as they can approve the application according to the date applied.

The students are being told to give cooperation for using this system wisely and fill in all the information honestly by giving the true identity. Apart from that, it can also make sure that the system can run smoothly and response in the correct way.