



Faculty of Computing and Information Technology
BAIT1083 Visual Programming
Assignment 2020/2021

Programme : Management Mathematic with Computing

Tutorial Group : RMM2G1

System Title : Sport Facility Reservation System

Tutor : Ms. Lee Seah Fang

Student Name	Registration No.	Module Handled
Lee Shu Ern	19WMR05933	Login Module
Chew Hwa Ern	19WMR04184	Staff Module
Dylon Tan Eng Tat	19WMR01066	Facilities Maintenance Module
Hee Sze Wei	19WMR05920	Usage Module
Hong Wei Hao	19WMR02419	Facilities Reservation Module

BAIT1083 Visual Programming - Assignment Evaluation Form

Student Name						
Assessment Criteria		Marks Awarded				
CLO	Criteria					
3	Description of System and Targeted Users (5 marks)					
3	Detailed Functional Modules Descriptions (10 marks)					
2	GUI and Navigation Design (10 marks)					
2	Program / Business Logic Design (10 marks)					
2	Exception Handling (10 marks)					
2	Database Integration (10 marks)					
2	System Reports (10 marks)					
3	Teamwork (10 marks)					
3	Final Documentation (15 marks)					
3	Presentation (10 marks)					
	Total					

1. Description of system

Convenience at your fingertips, the brand new Sports Facility Reservation System strives to serve a better future for TARUC. With this advanced and integrated system, TARUC will be able to expand their limits in terms of facilities to greater heights. The Sports Facility Reservation System consists of five highly integrated modules, which are linked and work together to compile information on the workflow of the system: Login module, Staff module, Facilities maintenance module, Usage module and Facilities reservation module.

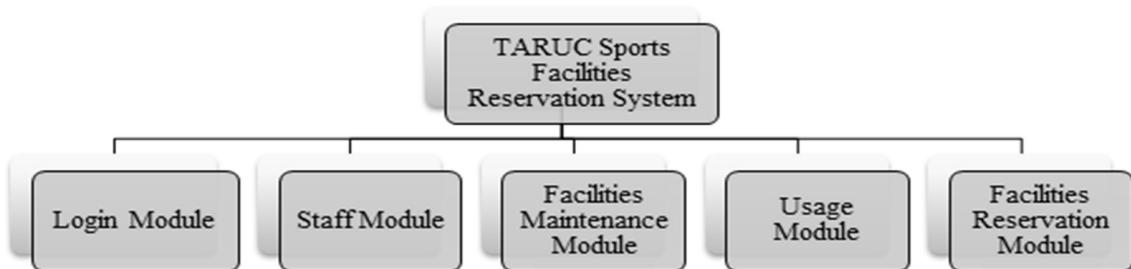


Figure 1 : TARUC Sports Facilities Reservation System

This wholesome system is customised to suit the needs of the employees at TARUC, where not only it generates a monthly report regarding the sports facilities for improved management, but also provides statistics and information for management level staff to find loopholes in their management through the system.

It provides an user-friendly interface where users can perform reservations on any facilities just by a few clicks. The system is easy to use and understand, not to mention straightforward yet simple. It also comes along with brief explanations on how to use it so training costs for staff can be reduced. Besides that, the system is well-organised so that users can access to different tools and options easily to carry out bookings or tracking records. Hence, making it really simple and easy to use.

In addition to that, this system application is integrated with exception handling systems to prevent and reduce the occurrence of human errors through the facilities reservation process. This is done to eliminate the possibility of double booking the same facility at the same time period or other likely recording errors.

1.1. Business Rules

- A. This system is customised for staff members in the TARUC Sports Facilities.

- B. All TARUC Sports Facilities are open to the public and all students in TARUC.
- C. Terminated staff members are denied Login access from the system.
- D. All facilities can be accessed and used upon reservation or walk-in
- E. Facilities are blocked from being used if maintenance status is under maintenance.
- F. Facilities reservation time is fixed by hour. Users can only book reservations for a fixed time.
- G. One customer can only make 1 reservation each time.
- H. Payment must be made to secure the reservations of any facility.
- I. No refund will be made upon cancellation.

1.2. Targeted Users:- TARUC Staff

- A. This system allows staff in TARUC to manage school sport's facilities by updating the number of available facilities in the system and the occupancy of these sports facilities.
- B. Staff in charge are able to reserve sports facilities via the system instead of recording the reservation manually on record books
- C. For management level staff like the facility manager, are able to access more information or data from the facility reservation system. Only managers are allowed to create new profiles, read staff profiles, update staff profiles, view reports and perform any other relevant facilities reservation operations. Facility managers will have access to the reports generated such as the reservation report and the employee's profiles.
- D. Staff are only allowed to update and read their own profiles and also perform relevant facilities reservation operations such as update usage, add reservations etc.

2. Detailed functional modules descriptions

2.1. Login Module

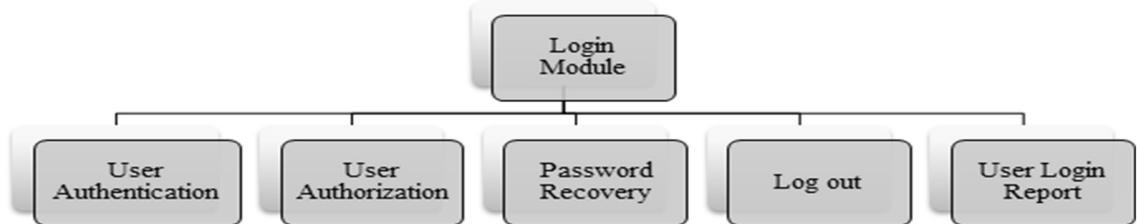


Figure 2 : Login Module

This login module allows users to access the system application logging into the system. This module is needed to prevent identity fraud which can avoid others from hacking into the system and stealing personal information.

A. User Authentication

User authentication is to verify a user's identity by authenticating user ID and password upon logging in. This function is needed to prevent people other than the staff using invalid user id and password to access the facility reservation system. Authentication is to check whether the user name and password entered by the user match the data stored in the database. If the user is unable to login to the system, it means that the user may have entered invalid user id or incorrect password. Then, they need to enter again with the valid user ID and password.

B. User Authorization

This function is to verify the user-accessible content in the sports facilities reservation system by differentiating the user from their User ID. If the user ID contains 'MNG' in the user ID, it indicates that the user is a facility manager and will be authorized to access more content such as the user login report that is generated by the system. This is able to avoid anyone other than facility managers changing the data in the system. Whereas for staffs, their ID will contain "STF" in order for the system to recognize the user to allow access to different modules.

C. Password Recovery

Password recovery is a feature that assists users to reset password if they forget their password. This feature will first confirm the user's identity by prompting the user to enter the email address that was registered in the profile stored in the database. If the email address matches the specific stored email of the user, then the system will be prompted to send the user an email to the user's email, with a 6-digit code that allows the user to reset their new password and regain access to their account. Users must enter the correct code to unlock a new password generator.

D. Change Password

This function is to allow users to change or update their current password. When the user issues a command when updating their profile in the system application to change their current password, this function is executed. This module will require users to enter their existing password before changing the password to a new one.

E. Log out

When the user is done using the system, they are able to logout by selecting the logout button. This function will log the user out of their accounts to prevent other unauthorized personnel from using the last user's profile to perform fraud operations. This function also helps to protect the current user's access or prevent unauthorized actions on the current login session.

F. User Login Report

The user can view the detailed information of the user's login history, such as user's Name, user ID, login date and time, etc. This report only can be accessed by the management level staff to backtrack to the user's login details.

2.2. Staff Module



Figure 3 : Organizational chart of the TARUC Sports Facility.

This module is carefully designed to refine staff management in the sports facility with the aid of 5 integrated sub-features : adding staff profiles, reading staff profiles, updating staff profiles, terminating staff profiles and lastly, a report generating feature. This module gives access mainly to the management level staff which are the facility managers and supervisors to communicate changes for eased management.

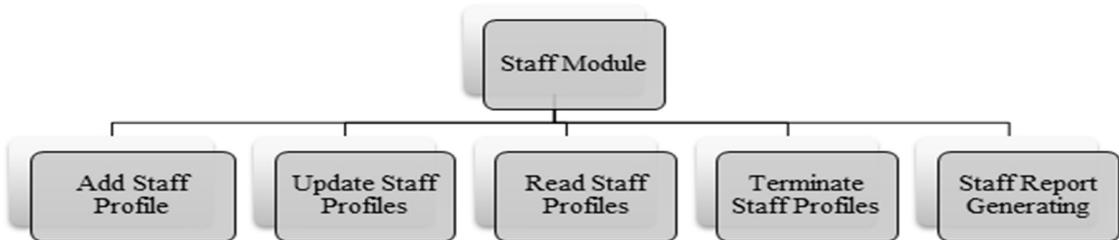


Figure 4 : Staff Module

A. Add Staff Profiles

This function is used when there is a new addition to the staff in the TARUC Sports Facility. This function can be used to add personal details of staff into the profile stored in the database for authentication and authorization purposes. The staff data stored in the database is used in the Login module to allow access to the system, reset password, determine the position of the staff and etc. The adding of staff profiles can only be done by the management level since only they have access and authority to add new staff' profiles.

B. Update Staff Profiles

This feature can be used when there is a need to alter staff's profiles or personal information such as Staff ID, Name, Password, Contact number, and etc. This can be done by management level staff who are granted access to this function and allowed to update the staff profiles, whereas staff are only given access to update their own profiles. However, for security purposes, managers are not allowed to change the user's password. Passwords can only be changed or updated by the profile owner. Staff are also not allowed to update their job positions and employee status.

C. Read Staff Profiles

This is a feature that displays a list of staff profiles. From this feature, the management level staff are able to have a clearer picture on the staff details such as User ID, Name, Contact number, Job positions, employee status and etc. This feature enables managers to choose what they want to see by shortlisting the list of profiles by names or IDs. Management level staff are able to get a full view of the staff list from here.

D. Terminate Staff Profiles

This sub-function allows only management level staff to terminate staff members' profiles. This feature is done under the update module as staff records should not be deleted permanently. This is to update their employee status from "Active" to "Terminated". This is only done when a staff member has resigned or retired from their jobs or no longer works at the facility. With that, if employee status is changed to "Terminated", the manager must input the reason and date of which this specific staff is terminated. This sub-function will continue to store their data in the database for future reference.

E. Staff Report Generating

This feature is customised to generate a report on a list of either a total active staff members or a total terminated staff. The data displayed in the report are relevant details appended to their profiles in the database. This report eases the process of management level staff to evaluate the productivity of the staff and keeps track of the current staff count.

2.3. Facilities Maintenance Module

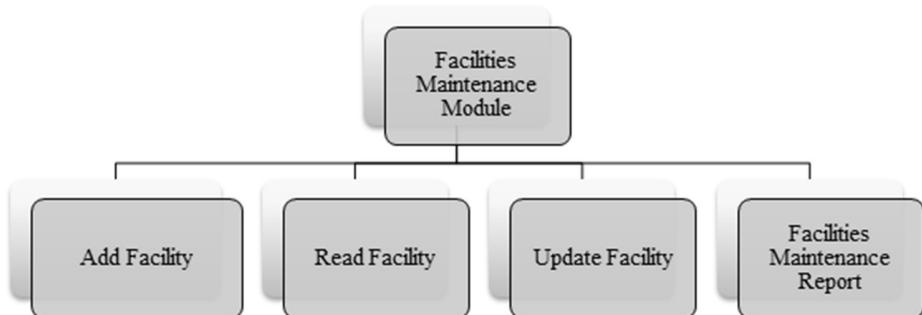


Figure 5 : Facilities Maintenance Module

This module can let the staff to add facility, read the details of facility, update facility, delete facility as well as facilities maintenance report. This will make everything convenient and the staff can easily change and update the maintenance status of facilities.

A. Add Facility

This function is for the staff to add new facilities that are newly built inside TARUC into the facilities reservation system to make it available to users to perform reservations or booking of the new facility that was just added. Staff can also add new types of facility such as Volleyball, Football or others.

B. Read Facility

This function will show a list of facilities, for instance, badminton court, futsal court, basketball court, table tennis room, squash court and tennis court. Also, the facility's maintenance status will be displayed for staff to recognize easily, but mainly used for staff to check the maintenance status of the facilities whether it is available or under maintenance. If the facility is under maintenance, the facility is automatically blocked from any reservations.

C. Update Facility

This function is for the staff to update the status if the facility is under maintenance so that it will not be available for reservations and also usage modules. Managers and Staff can also change the status of facilities that have been repaired and are ready to use so that the facility will not be under a situation that no one uses. Staff can also delete the facility if they key in the wrong facility.

D. Facility Maintenance Report

Reports will be generated on the maintenance status based on record in this function so that the manager can clearly see which facilities have been repaired or under maintenance. Staff can choose to either view a list of facilities under maintenance or ready to use or both.

2.4. Usage Module

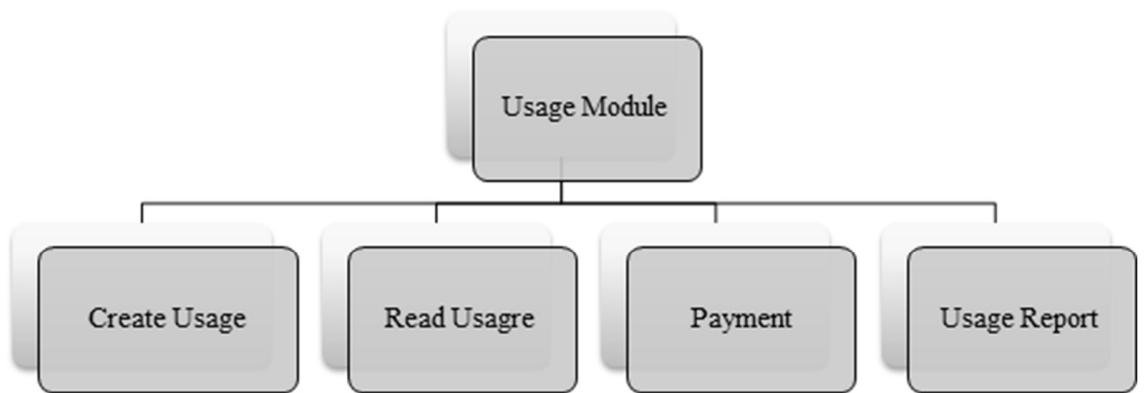


Figure 6 : Usage Module

This module shows the usage of facilities which are currently occupied, for instance, badminton court, futsal court, basketball court, table tennis room, squash court and tennis court. This module prevents walk-in facilities users to choose or use the occupied facility and brings convenience to the staff in charge.

A. Create Usage

This is to let the admin create usage for each facility with usage details such as start time, end time, method (reservation or walk-in), facility type, facility ID. A usage ID will be generated for each usage.

B. Read Usage

This function is to let staff to view the usage for each facility from time to time. Staff get to know which facility is still available to use for the walk-in customer by reading the usage.

C. Payment

This sub function has two payment methods which are cash and card payment. If the facilities user is a reservation customer, payment function is not required. After the walk-in facilities user has made their payment either cash or card payment, the system will then generate a receipt to them as a proof of payment.

D. Usage Module Report

This module will also generate a report of facilities usage based on the usage details and total revenue gained from only walk-in customers so that managers can evaluate the report accordingly for better decision making. The report is used to separate the sales from walk-in customers and reservation customers.

2.5. Facilities Reservation Module

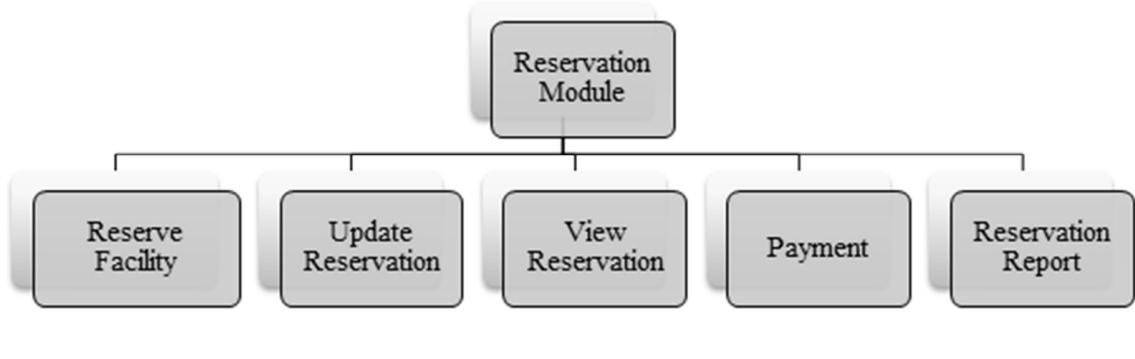


Figure 7 : Facilities Reservation Module

This module allows staff to perform the reservations and cancellation of reservations actions, record facility users' information, make the payment of booking , and generate a facilities reservation report.

A. Reserve Facility

This function allows staff to perform reservations actions based on the facility users' preferred booking time. Then, it will record the facility users' personal details such as name, contact number, email address, student ID (if any) and etc. Other than that, this function allows facilities users to pre-book at the counter. Each of the reservations may be performed by different staff as the staff has authorization to access the reservation module.

B. View Reservation

This function allows staff to view the reservation for each facility from time to time. Staff get to know which facility is still available to use for the pre-booked customer by reading the reservation.

C. Update Reservation

This function is to let staff to update the reservation of each facility in real time. Whether the staff want to update or cancel reservation,it will pop up a form of changing time to let staff perform this action. Staff will update the status to occupied after the customer comes to counter to pre-book the facility. This function also allows staff to perform the actions of cancelling the reservation of facilities users but facilities users must cancel their reservation at the counter or cancel via phone call before three days of booking time. There is no refund after facilities users have canceled their reservation.

D. Payment

This sub function has two payment methods between cash or card payment. After facilities users have made their payment either cash or card payment, the system will then save the card details of facilities users if they make payment by credit card. After successful payment, the system will generate a receipt to them as proof of payment.

E. Facilities Reservation Report

This module will also generate a report about the details of each facility reservation based on staff choosing which facility they want to generate. So, the management level staff may know which facilities are the most popular and they can renew the facilities or increase the facilities number as well.

3. Modules Allocation

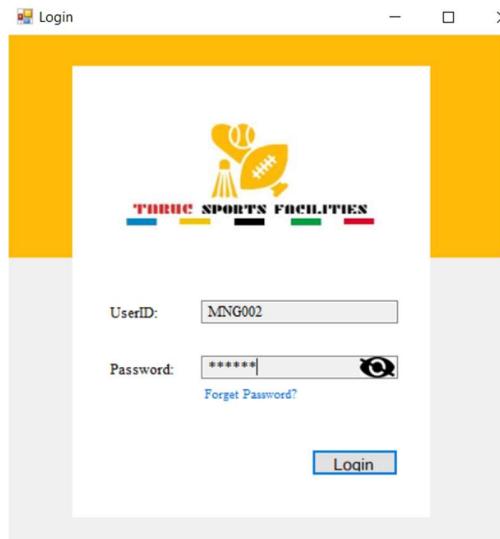
Name	Modules In Charge
Lee Shu Ern	Login Module
Chew Hwa Ern	Staff Module
Dylon Tan Eng Tat	Facilities Maintenance Module
Hee Sze Wei	Usage Module
Hong Wei Hao	Facilities Reservation Module

4. User Manual

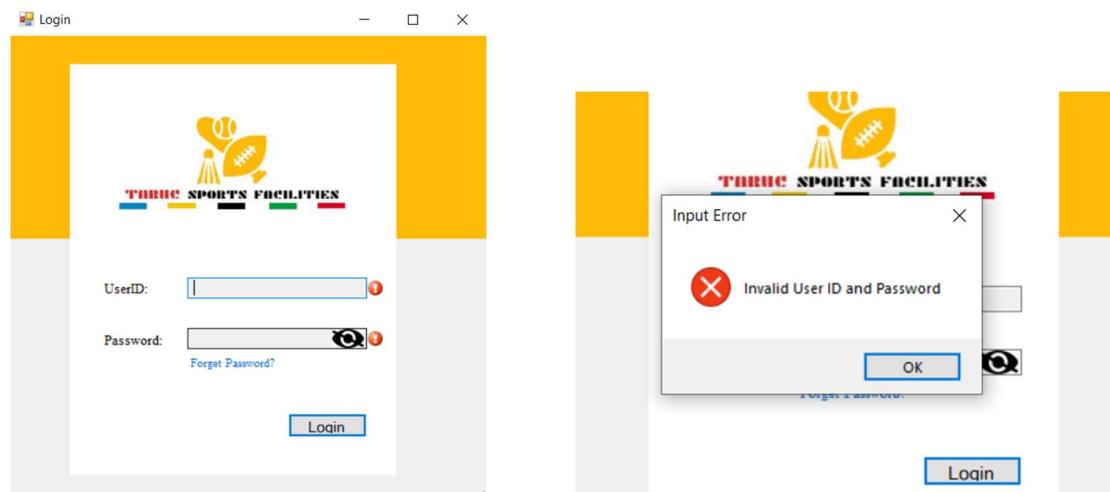
4.1. <Login Module> by < LEE SHU ERN>

4.1.1 USER AUTHENTICATION

The Login Module is the first module that starts up the facility reservations system application. The Login module allows users to input their UserID and Password.



Valid

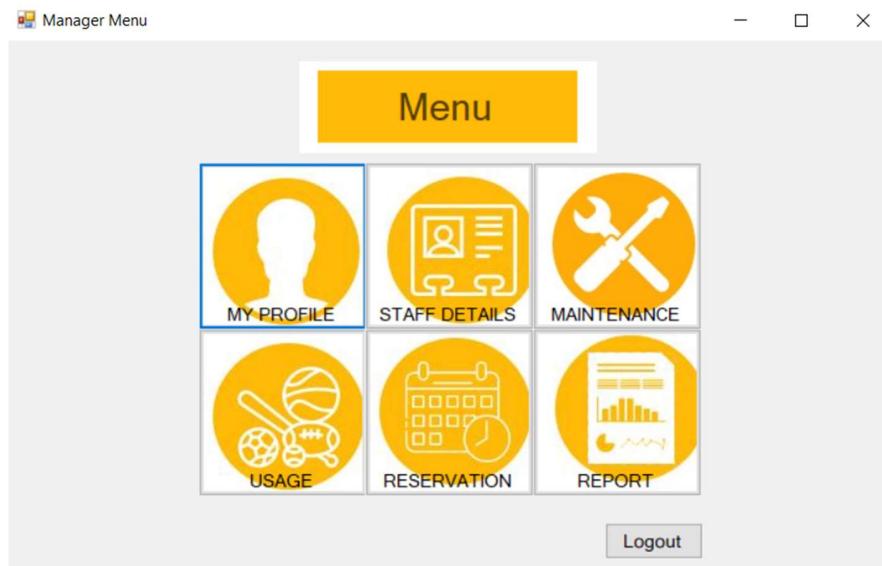


Invalid

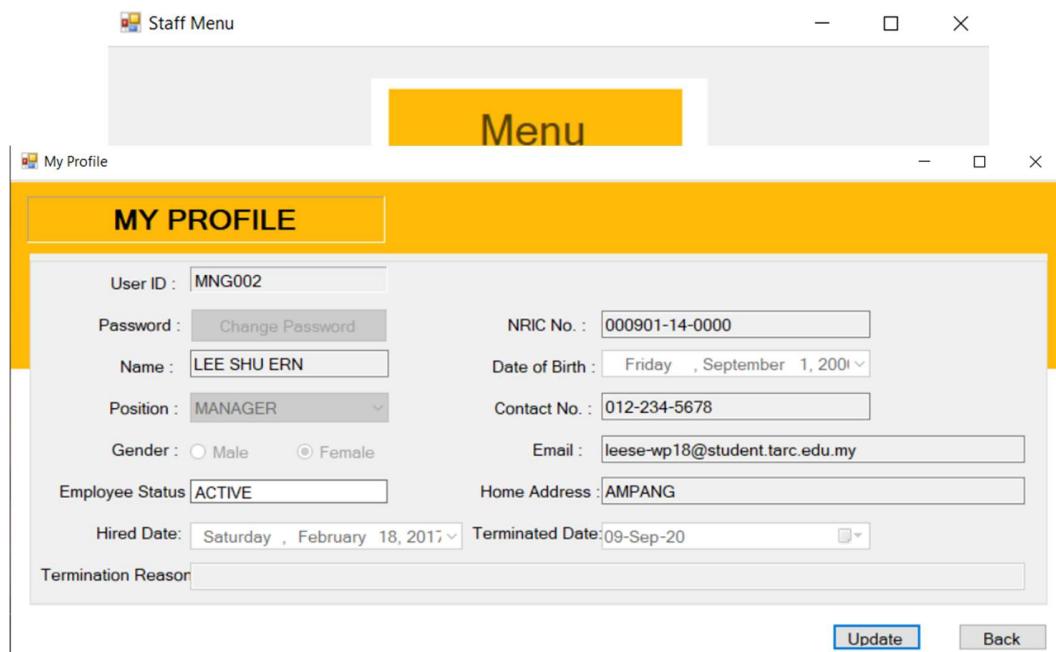
If the user does not enter any data, it prompts the error provider to remind the user to key in data followed by a pop-up dialog box to tell the user that the user ID and password is invalid.

4.1.2 USER AUTHORIZATION

Upon successful login, the system recognizes the user by the user ID and identifies the position of the user. If the user is a manager, the window form shows the Manager menu as below:



If the user is a staff member, the Staff Menu is displayed upon Login.



When the user chooses "MY PROFILE", the window displays the profile owner's details that have been saved in the database. The user is able to view his/her own profile and if the user wishes to update profile details, the "Update" button is pressed.

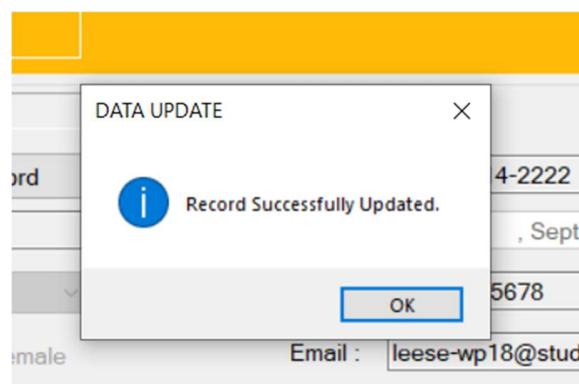
When the “Update” button is clicked, the editable fields will be enabled for editing. The “Save” button will save any changes made to the database.

The screenshot shows a Windows application window titled "My Profile". The main title bar is yellow. Below it, a white rectangular area contains various input fields for updating a profile. The fields include:

- User ID: MNG002
- Password: Change Password
- Name: LEE SHU ERN
- Position: MANAGER
- Gender: Male (radio button selected)
- Employee Status: ACTIVE
- NRIC No.: 000901-14-2222
- Date of Birth: Friday, September 1, 2001
- Contact No.: 012-234-5678
- Email: leese-wp18@student.tarc.edu.my
- Home Address: AMPANG
- Hired Date: Saturday, February 18, 2017
- Terminated Date: 09-Sep-20
- Termination Reason: (empty field)

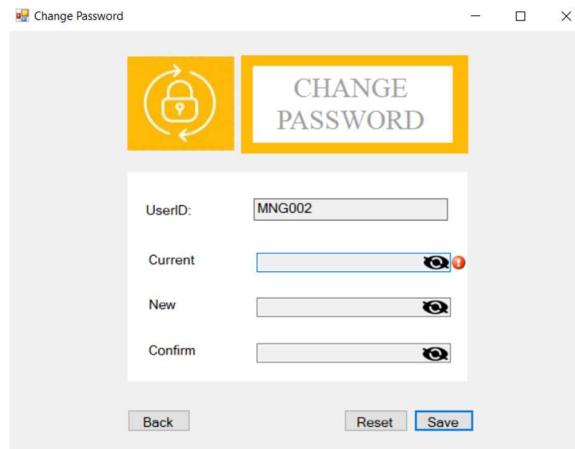
At the bottom right of the form are two buttons: "Save" and "Back".

When the “Save” button is clicked, the data will be updated successfully and prompts a message box to tell the user that the record has been saved.

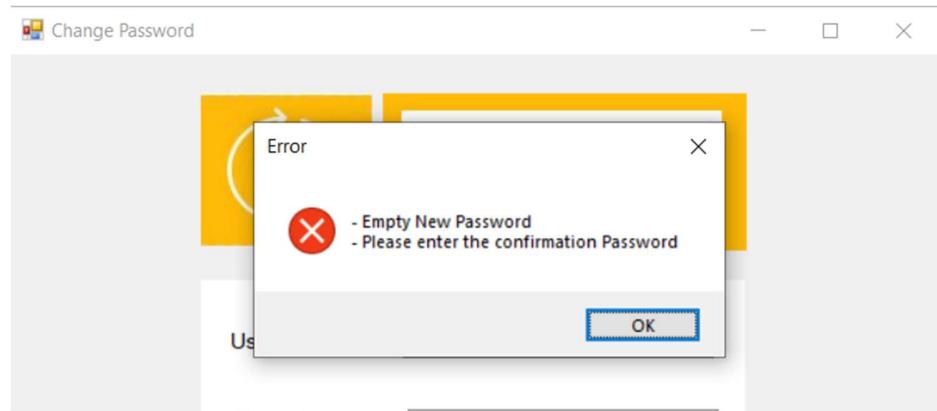


4.1.3 CHANGE PASSWORD

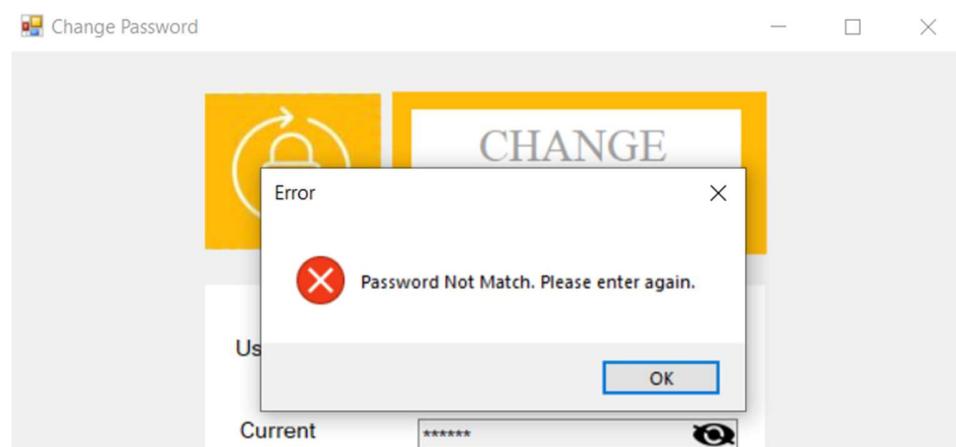
When the user chooses “Change Password” Option in MY PROFILE,



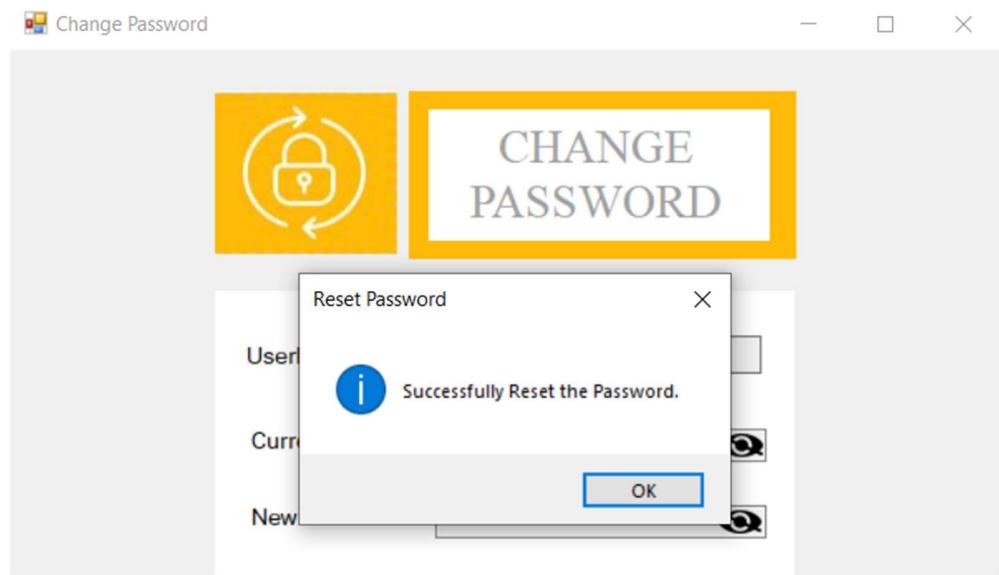
If the user does not Enter anything, the error dialog box pops up to remind the user to enter a new Password.



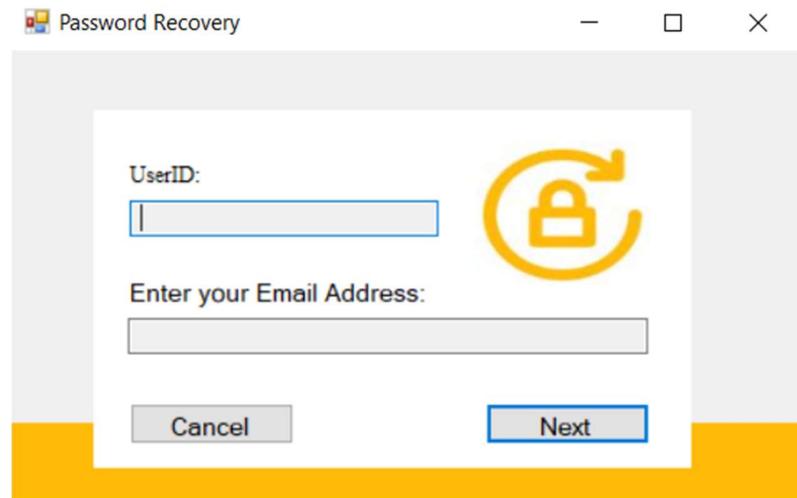
If the user's New Password does not match the Confirmation Password.



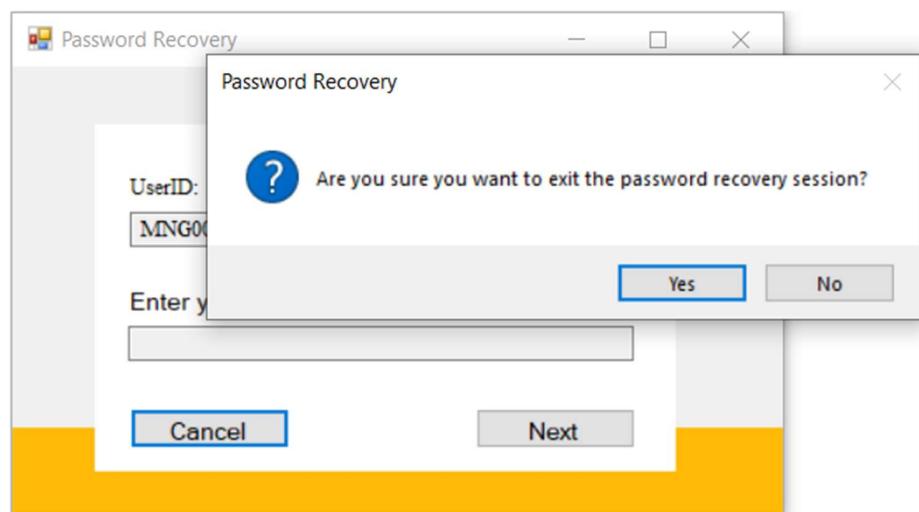
If the user successfully changes the Password,



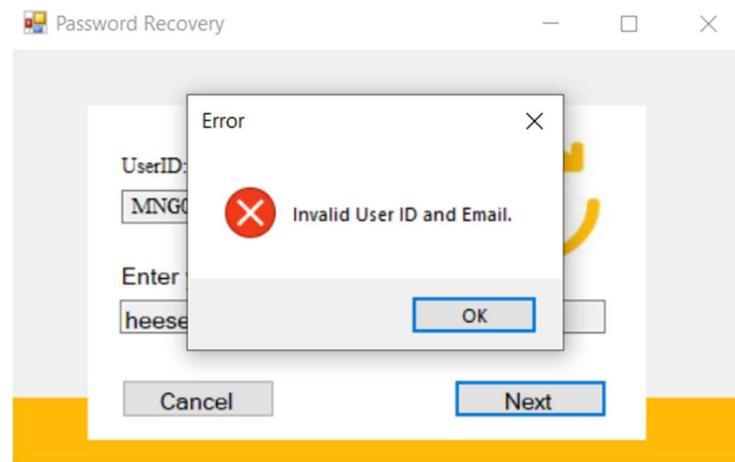
When a user forgets password, the user is prompted to recover password.



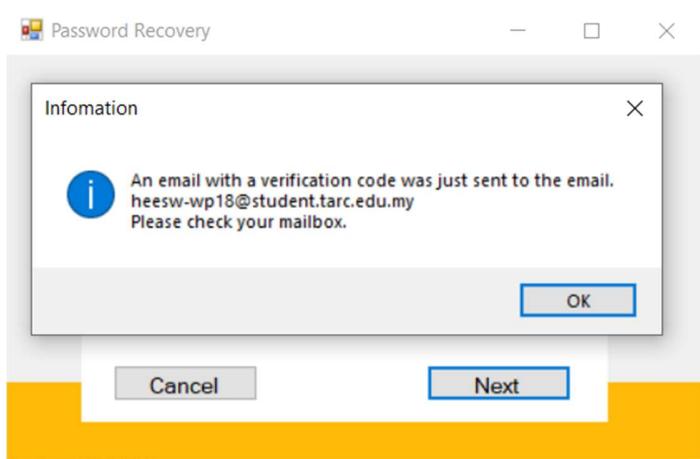
If the user selects "Cancel" Button,



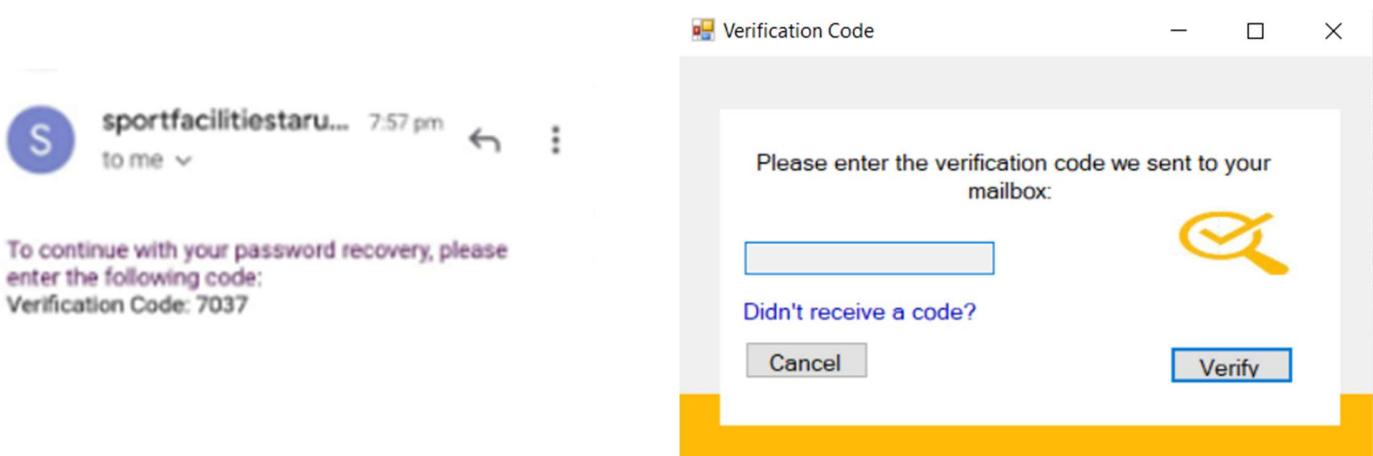
If the user enters invalid email address or User ID,



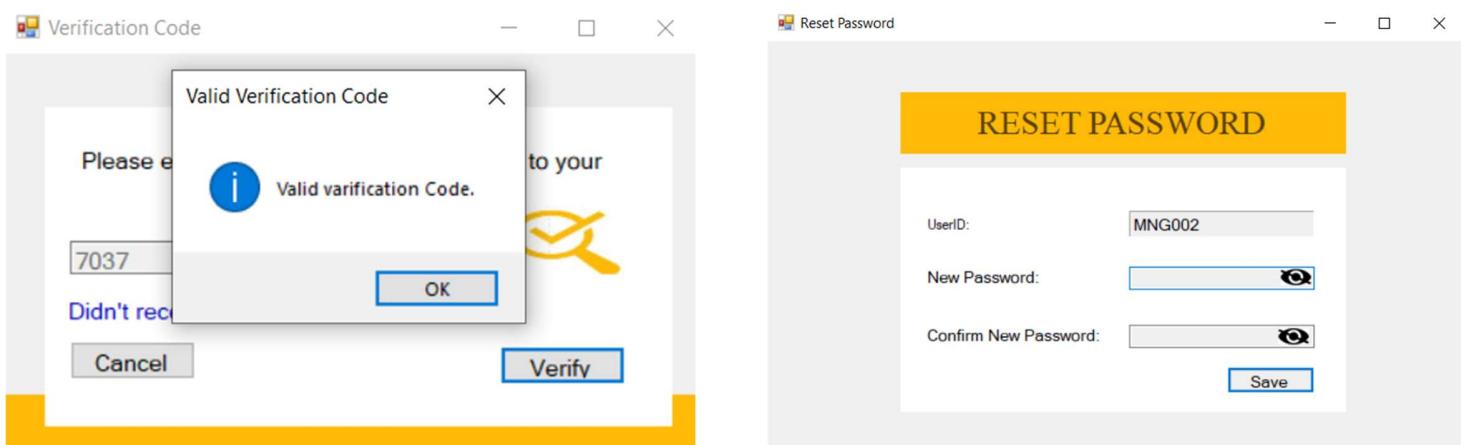
If the user enters a valid email address that matches with the database,



The user receives a verification code from the email inbox and is required to enter the code into the window form.



If the code is valid, the user can proceed to reset Password.



4.1.5 LOGIN REPORT

When the manager selects the report module for Login ,

The screenshot shows a Windows application window titled "LoginReport". The main title bar says "LOGIN REPORT". Below it is a section labeled "Login Report" with four dropdown menus: "Staff ID", "Login Hour", "Login Date" (set to "Friday, September 11"), and "Logout Hour". A table below lists three records:

	LoginID	StaffID	Date	Login_Time	Logout_Time
▶	L110	MNG002	11-Sep-20	05:24:04 PM	05:24:43 PM
	L111	MNG002	11-Sep-20	07:46:04 PM	07:47:41 PM
*	L112	STF004	11-Sep-20	07:48:54 PM	07:49:28 PM

At the bottom, there are buttons for "Back", "Reset", and "Print".

The manager can shortlist the login database by the staff ID, Login Date, Login Time o'pr Log out Time

The screenshot shows the same "LoginReport" window. The "Staff ID" dropdown is set to "MNG002", the "Login Hour" dropdown is set to "05", and the "Logout Hour" dropdown is also set to "05". The table now shows only one record for staff ID MNG002:

	LoginID	StaffID	Date	Login_Time	Logout_Time
▶	L110	MNG002	11-Sep-20	05:24:04 PM	05:24:43 PM

At the bottom, there are buttons for "Back", "Reset", and "Print".

When “Print” Button is selected, the report is generated.



Facility Maintenance

Printed on 11-Sep-2020 08:06:15 PM

Prepared by XXX

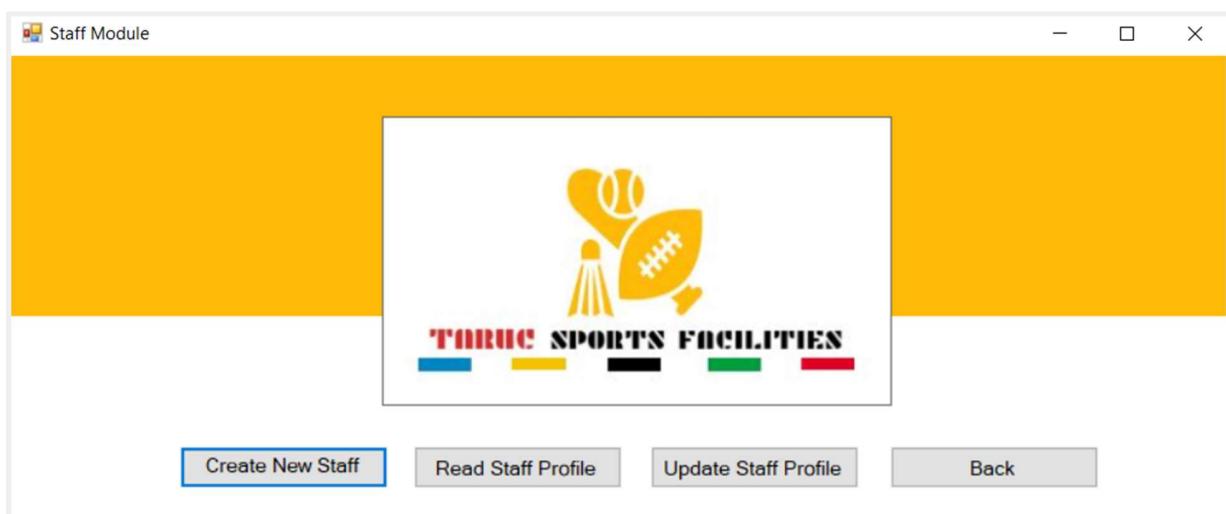
Login ID	Staff ID	Date	Login Time	Logout Time
L110	MNG002	11-09-2020	05:24:04 PM	05:24:43 PM
L111	MNG002	11-09-2020	07:46:04 PM	07:47:41 PM
L112	STF004	11-09-2020	07:48:54 PM	07:49:28 PM

2 record(s)

4.2. <Staff Module > by < CHEW HWA ERN>

Upon successful login, the user is prompted with a menu window which allows them to perform different operations such as creating new staff profiles, updating staff profiles or read staff profiles by selecting different buttons that represent each action. The menu below is only shown when the user is a Manager.

4.2.1 CREATE



When the manager clicks “Create New Staff”,

A screenshot of a Windows application window titled "Create Staff Profile". The window has a yellow header bar. It contains a "Profile Details" section with various input fields: User ID (text box), Password (text box), Name (text box), NRIC No. (text box), Position (dropdown), Date of Birth (dropdown set to "Thursday, September 10, 2"), Gender (radio buttons for Male and Female), Contact No. (text box), Employee Status (dropdown set to "ACTIVE"), Email (text box), Hired Date (dropdown set to "Wednesday, September 9, 202"), and Home Address (text box). Below this is a grid table showing staff records:

staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth
MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99
MNG002	sss222	LEE SHU ERN	MANAGER	ACTIVE	FEMALE	000901-14-3333	01-Sep-00
MNG003	ccc333	SERENE HEE SW	MANAGER	ACTIVE	FEMALE	000216-14-2222	16-Feb-89
MNG006	MNG006	Joanna	MANAGER	ACTIVE	FEMALE	000101-12-2221	01-Jan-20
STF004	eee555	Hong	STAFF	ACTIVE	MALE	000918-14-1111	18-Sep-00
STF005	fff666	DYLON TAN TE...	STAFF	TERMINATED	MALE	001027-14-0000	27-Oct-00

Create Clear Back

The manager is required to fill up all fields before pushing the “Create” button. Else,

The screenshot shows a Windows application window titled "Create Staff Profile". Inside, there's a form titled "Profile Details" with fields for User ID, Name, Position, Gender, Employee Status, and Hired Date. A modal dialog box titled "Input Error" lists validation errors: "Please Enter Name", "Please Enter Email", "Please Enter Address", "Please Enter NRIC", "Please Enter Contact Number", and "Please Select A Position". Below the errors is an "OK" button. At the bottom of the window is a data grid displaying staff information.

staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth
MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99

When the manager selects the button “Clear”, the form resets.

If the manager enters the valid data accurately, the program generates the new staff’s UserID and Password automatically and the data grid view automatically shows the updated staff list.

The screenshot shows the same "Create Staff Profile" window. This time, valid data has been entered: User ID STF007, Name Ern, Position STAFF, Gender Female, Employee Status ACTIVE, Hired Date Wednesday, September 9, 2020, and Home Address Seremban. The modal dialog box is no longer present. The data grid at the bottom now shows the updated list of staff, including the new entry for STF007.

staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth
MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99
MNG002	sss222	LEE SHU ERN	MANAGER	ACTIVE	FEMALE	000901-14-3333	01-Sep-00
MNG003	ccc333	SERENE HEE SW	MANAGER	ACTIVE	FEMALE	000216-14-2222	16-Feb-89
MNG006	MNG006	Joanna	MANAGER	ACTIVE	FEMALE	000101-12-2221	01-Jan-20
STF004	eee555	Hong	STAFF	ACTIVE	MALE	000918-14-1111	18-Sep-00
STF005	fff666	DYLON TAN TE...	STAFF	TERMINATED	MALE	001027-14-0000	27-Oct-00

4.2.2 READ

When the manager selects “Read Staff Profiles”,

Read Staff Profile

	staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth
▶	MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99
	MNG002	sss222	LEE SHU ERN	MANAGER	ACTIVE	FEMALE	000901-14-3333	01-Sep-00
	MNG003	ccc333	SERENE HEE SW	MANAGER	ACTIVE	FEMALE	000216-14-2222	16-Feb-89
	MNG006	MNG006	Joanna	MANAGER	ACTIVE	FEMALE	000101-12-2221	01-Jan-20
	STF004	eee555	Hong	STAFF	ACTIVE	MALE	000918-14-1111	18-Sep-00
	STF005	fff666	DYLON TAN TE...	STAFF	TERMINATED	MALE	001027-14-0000	27-Oct-00
<	STF007	STF007	Em	STAFF	ACTIVE	FEMALE	001201-11-1222	01-Dec-00

The data grid view automatically reflects the keywords typed into the search box.

Read Staff Profile

	staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth
▶	MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99
	MNG002	sss222	LEE SHU ERN	MANAGER	ACTIVE	FEMALE	000901-14-3333	01-Sep-00
	MNG003	ccc333	SERENE HEE SW	MANAGER	ACTIVE	FEMALE	000216-14-2222	16-Feb-89
	MNG006	MNG006	Joanna	MANAGER	ACTIVE	FEMALE	000101-12-2221	01-Jan-20
	STF004	eee555	Hong	STAFF	ACTIVE	MALE	000918-14-1111	18-Sep-00
	STF005	fff666	DYLON TAN TE...	STAFF	TERMINATED	MALE	001027-14-0000	27-Oct-00
<	STC007	STC007	E...	STAFF	ACTIVE	FEMALE	001201-11-1222	01-Dec-00
7 record(s)								
							Update	Back

Read Staff Profile

	staffID	Password	Name	Position	Employee_Status	Gender	NRIC_No_	Date_Of_Birth	
▶	MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE	FEMALE	990812-14-0000	12-Aug-99	0
*									

< >

1 record(s)

[Update](#) [Back](#)

4.2.3 UPDATE

The manager is to select a staff ID from the combo Box. Then the form retrieves the staff data from the database of the specific profile that appends the staff ID.

The screenshot shows a Windows application window titled "Update". The main title bar says "STAFF PROFILE". A dropdown menu "Staff ID:" is set to "MNG006". The form contains the following fields:

User ID :	MNG006	NRIC No. :	000101-12-2221
Name :	Joanna	Date of Birth :	Wednesday, January 1, 2021
Password :	Change Password	Contact No. :	012-222-2222
Position :	MANAGER	Email :	hwa.ern@gmail.com
Gender :	<input type="radio"/> Male <input checked="" type="radio"/> Female	Home Address :	Segambut
Employee Status	ACTIVE	Hired Date: Friday, September 11, 2021	

At the bottom right are buttons for "Update", "Clear", and "Back".

The manager can change any fields here and if the manager changes the employee status from “Active” to “Terminated”, the relevant data field will appear to be filled in.

When the manager presses the “Update” button, the record is successfully saved to the database.

The screenshot shows the same "STAFF PROFILE" update window. A modal dialog box titled "DATA UPDATE" appears in the center, displaying a blue info icon and the message "Record Successfully Updated." with an "OK" button. The main form's fields are identical to the previous screenshot. At the bottom right are buttons for "Update", "Clear", and "Back".

4.2.5 TERMINATED

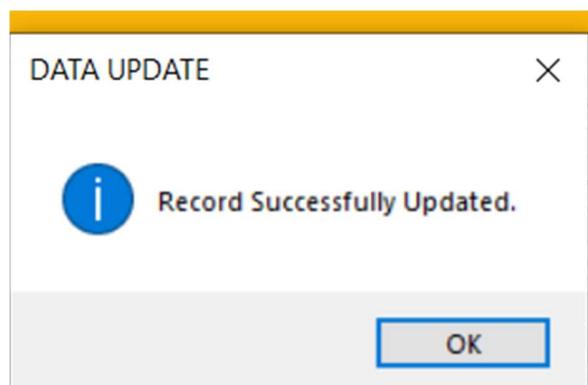
The manager can terminate the staff by updating the employee status field in the UPDATE form from “ACTIVE” to “TERMINATE”. The manager is required to fill up the relevant data fields that show up after changing the employee status. This will disable the staff profile and block the staff from logging in.

The screenshot shows a Windows application window titled "Update". Inside, there's a yellow header bar with "STAFF PROFILE" and a dropdown for "Staff ID: MNG003". The main area contains various input fields:

- User ID: MNG003
- Name: SERENE HEE SW
- Password: Change Password
- Position: MANAGER
- Gender: Male (radio button)
- Employee Status: TERMINATED
- Hired Date: Wednesday, September 9, 202
- NRIC No.: 000216-14-2222
- Date of Birth: Thursday, February 16,
- Contact No.: 987-654-3213
- Email: heesw-wp18@student.tarc.edu.my
- Home Address: SETAPAK
- Terminated Date: 09-Sep-20
- Termination Reason: (empty text box)

At the bottom right are buttons for "Update", "Clear", and "Back".

Termination Reason and Termination date must be filled in order to update the record successfully. If no input is obtained, a dialog box will prompt the user to enter the date and reason.



4.2.6 STAFF REPORT

The manager can view, access and print the report.

Staff Report

Staff Report

ACTIVE TERMINATED

	staffID	Password	Name	Position	Employee_Status
▶	MNG001	aaa111	CHEW HWA ERN	MANAGER	ACTIVE
	MNG002	jjj222	LEE SHU ERN	MANAGER	ACTIVE
	MNG003	ccc333	SERENE HEE SW	MANAGER	ACTIVE
	MNG006	MNG006	Joanna Lee	MANAGER	ACTIVE
	STF004	qqq555	Hong	STAFF	ACTIVE

8 record(s)

Print **Back**

When “Print” is selected, the report will be generated according to the checked checkbox.



Staff List

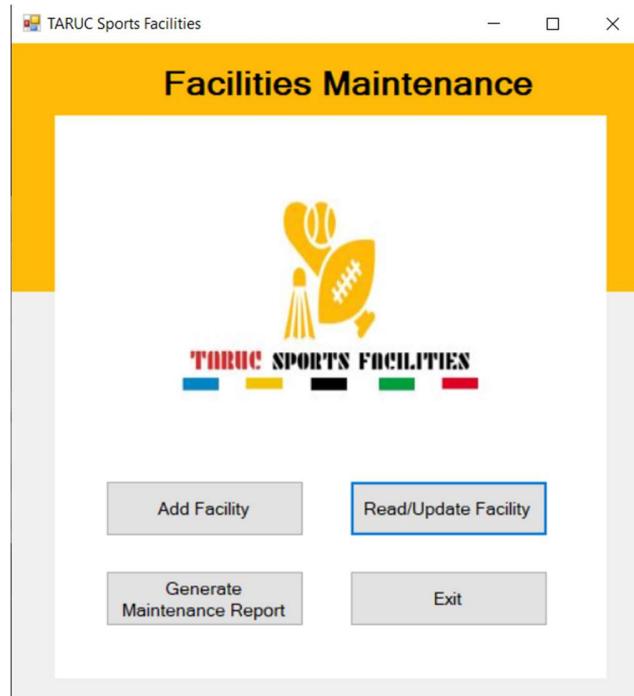
Printed on 11-September-2020 08:10:52 PM

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No	Staff ID	Name	Position	Gender	NRIC No.	Contact No.	Date Hired	Date Terminated	Termination Reason
1	MNG001	CHEW HWA ERN	MANAGER	FEMALE	998812-14-0000	017-209-9778	09-09-2019	09-09-2020	Contract terminated
2	MNG002	LEE SHU ERN	MANAGER	FEMALE	000901-14-3333	012-234-5678	18-02-2017	01-01-0001	-
3	MNG003	SERENE HEE SW	MANAGER	FEMALE	000216-14-2222	987-654-3213	09-09-2020	09-09-2020	
4	MNG006	Joanna Lee	MANAGER	FEMALE	000101-12-2221	012-222-2222	11-09-2020	09-09-2020	
5	STF004	Hong	STAFF	MALE	000918-14-1111	182-308-1111	01-01-2019	09-09-2020	
6	STF005	DYLON TAN TETET	STAFF	MALE	001027-14-0000	345-678-9800	09-09-2020	01-01-0001	-
7	STF007	Ern	STAFF	FEMALE	001201-11-1222	012-222-1111	09-09-2020	01-01-0001	-
8	STF008	friend	STAFF	MALE	000124-33-6541	012-098-0098	09-09-2020	01-01-0001	-

8 Record(s)

4.3. <Facilities Maintenance Module > by < DYLON TAN ENG TAT>



This is my facilities maintenance menu. Users can choose whether they want to add facility, read/update facility, generate maintenance report or exit to the main menu.

A screenshot of a Windows application window titled "Add Facility". The window has a yellow header bar with the title. Below the header is a section titled "Facility Details" in bold black font. Inside this section are several input fields: "Facility Type" with a dropdown arrow; "Facility Type" with a text input field; "Facility ID :" with a text input field and a note "(Ex : BD07,BS03)"; "Status :" with a dropdown arrow; "Capacity :" with two dropdown arrows and the text "Persons" between them; and "Location :" with a dropdown arrow. At the bottom of the form are three buttons: "Cancel" (grey), "Reset" (grey), and "Insert" (yellow background). The window has standard Windows-style minimize, maximize, and close buttons at the top right.

This is form will appear when user click the add facility



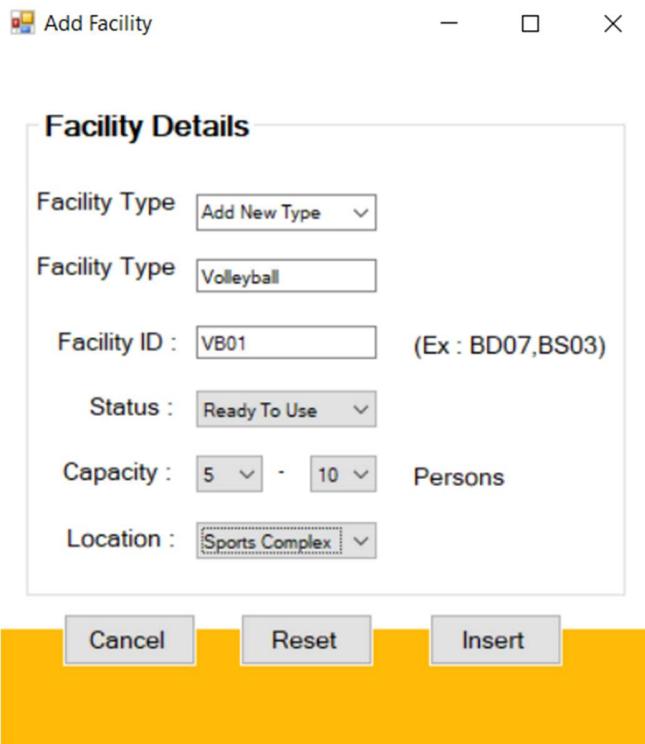
Users can choose whether they want to choose a new type which is not in the list or add the type that got in the database

Add Facility

Facility Details

Facility Type	Add New Type			
Facility Type	Volleyball			
Facility ID :	VB01	(Ex : BD07,BS03)		
Status :	Ready To Use			
Capacity :	5	-	10	Persons
Location :	Sports Complex			

Cancel Reset Insert



If users choose to add a new type, the text box of facility type will be enabled. Users can enter the details of the facility VB01.

Add Facility

Facility Details

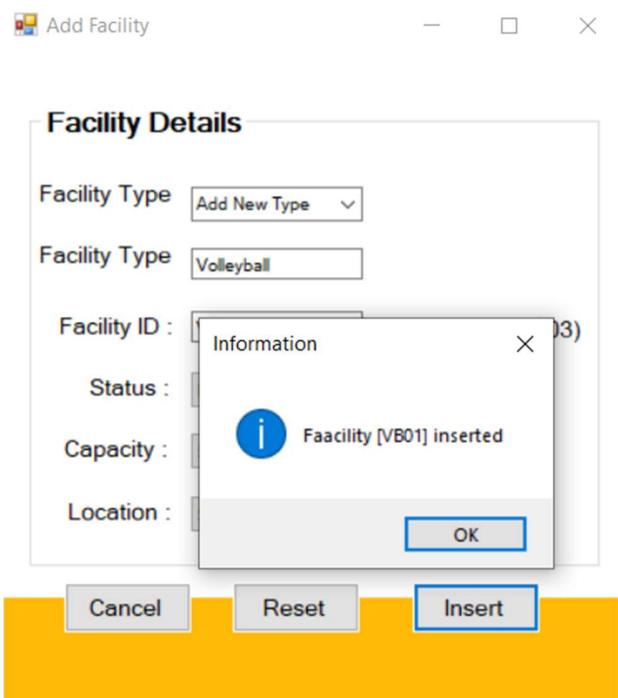
Facility Type	Add New Type
Facility Type	Volleyball
Facility ID :	VB01
Status :	Ready To Use
Capacity :	5 - 10 Persons
Location :	Sports Complex

Information

Facility [VB01] inserted

OK

Cancel Reset Insert



After the users click insert button, a message box will pop up and show the facility have been inserted



If the user adds the facility id that is already inside the database, error provider will show the facility id duplicated.

Add Facility

Facility Details

Facility Type	<input type="text"/>
Facility Type	<input type="text"/>
Facility ID :	<input type="text"/> (Ex : BD07,BS03)
Status :	<input type="text"/>
Capacity :	<input type="text"/> - <input type="text"/> Persons
Location :	<input type="text"/>

If the user clicks the reset button, all the text box, combo box will be clear and all the text box and combo box will be unable to select except facility type.

ReadUpdate

	Facility	All	Update			
▶	BD01	Badminton	Ready To Use	29/8/2020	2-4 persons	Sports Comp
	BD02	Badminton	Ready To Use		2-4 Persons	Sports Comp
	BD03	Badminton	Ready To Use		2-4 Persons	Sports Comp
	BD05	Badminton	Under Maintenance	29/8/2020	2-4 Persons	Sports Comp
	BD06	Badminton	Ready To Use		2-4 Persons	Sports Comp
	BS01	Basketball	Ready To Use	4/9/2020	5-10 persons	West Campu
	BS02	Basketball	Ready To Use	29/8/2020	5-15 Persons	West Campu
	BS06	Basketball	Ready To Use	3/9/2020	5-10 persons	Sports Comp

19 record(s)

MainMenu

If the user chooses read/update facility, all facilities in TARUC will be shown. The user can also choose the facility type to see a certain type of facility.

ReadUpdate

— □ ×

Facility

Badminton

Update

	FacilityID	FacilityType	Status	Last_Modified_Date	Capacity	Location
▶	BD01	Badminton	Ready To Use	29/8/2020	2-4 persons	Sports Complex
	BD02	Badminton	Ready To Use		2-4 Persons	Sports Complex
	BD03	Badminton	Ready To Use		2-4 Persons	Sports Complex
	BD05	Badminton	Under Maintenance	29/8/2020	2-4 Persons	Sports Complex
	BD06	Badminton	Ready To Use		2-4 Persons	Sports Complex

5 record(s)

MainMenu

User choose badminton type

ReadUpdate

— □ ×

Facility

Others

Update

	FacilityID	FacilityType	Status	Last_Modified_Date	Capacity	Location
▶	VB02	Volleyball	Ready To Use	11/9/2020	5-10 persons	Sports Complex

1 record(s)

MainMenu

User choose others

UpdateFacility

UpdateDetails

Facility Type :	<input type="text"/>	
Facility ID :	<input type="text"/>	<input type="button" value="^"/>
Status :	<input type="text"/>	<input type="button" value="▼"/>
Capacity :	<input type="text"/> - <input type="text"/>	Persons
Location :	<input type="text"/>	

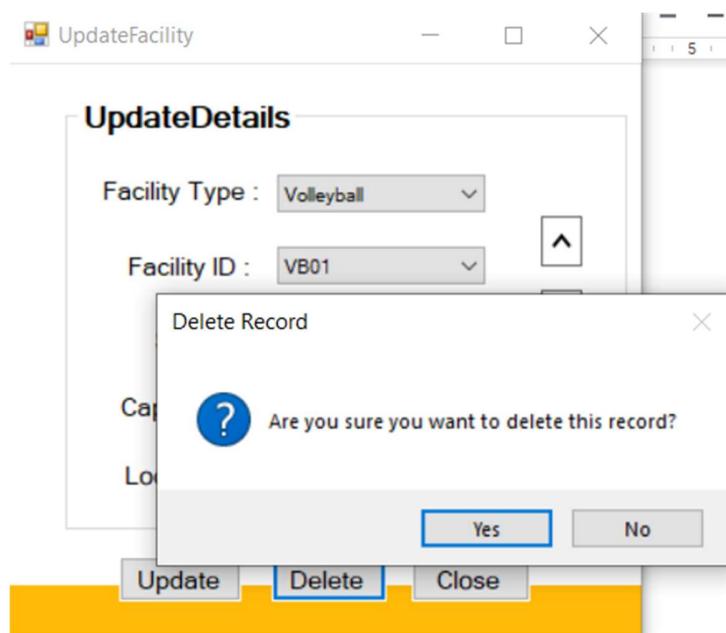
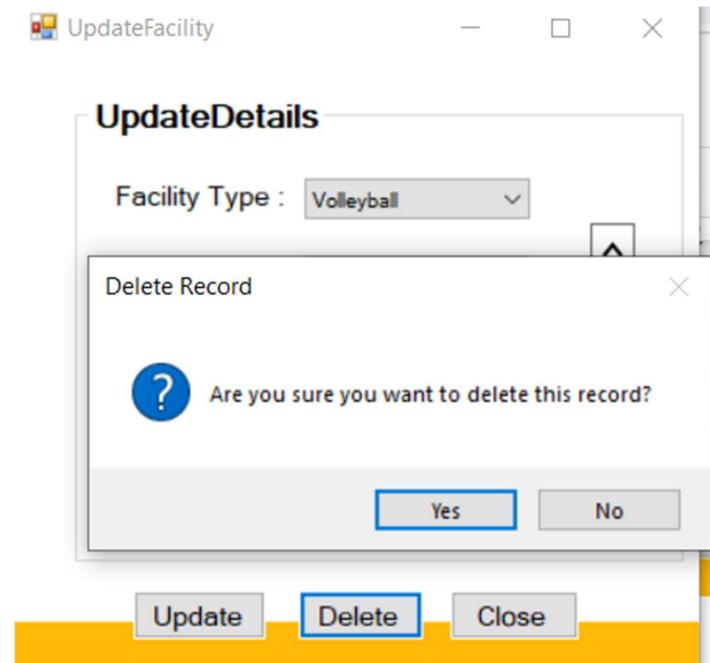
When the user clicks the button update, this form will be shown.

UpdateFacility

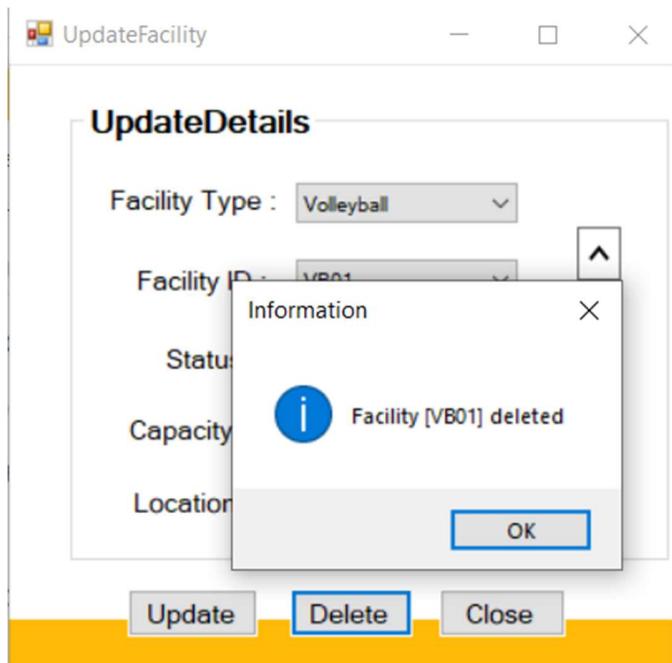
UpdateDetails

Facility Type :	<input type="text" value="Badminton"/>	
Facility ID :	<input type="text" value="BD01"/>	<input type="button" value="^"/>
Status :	<input type="text" value="Ready To Use"/>	<input type="button" value="▼"/>
Capacity :	<input type="text" value="2"/> - <input type="text" value="4"/>	Persons
Location :	<input type="text" value="Sports Complex"/>	

When the user chooses the facility type and facility id, the status , capacity, location of the facility will be shown and ready to be changed and updated.



If the user click delete button, a message box will pop up to ask user whether he wants to delete this record or not.



If the user click yes, a message box of facility deleted will be shown.

The screenshot shows a Windows application window titled "ReadUpdate". At the top, there are buttons for "Facility", "Others", and "Update". Below is a grid table with columns: FacilityID, FacilityType, Status, Last_Modified_Date, Capacity, and Location. One row is selected, showing FacilityID VB02, FacilityType Volleyball, Status Ready To Use, Last_Modified_Date 11/9/2020, Capacity 5-10 persons, and Location Sports Complex. At the bottom left, it says "1 record(s)". At the bottom right, there is a "MainMenu" button.

	FacilityID	FacilityType	Status	Last_Modified_Date	Capacity	Location
▶	VB02	Volleyball	Ready To Use	11/9/2020	5-10 persons	Sports Complex

The facility VB01 is deleted from the database.

Report

— □ ×

Report

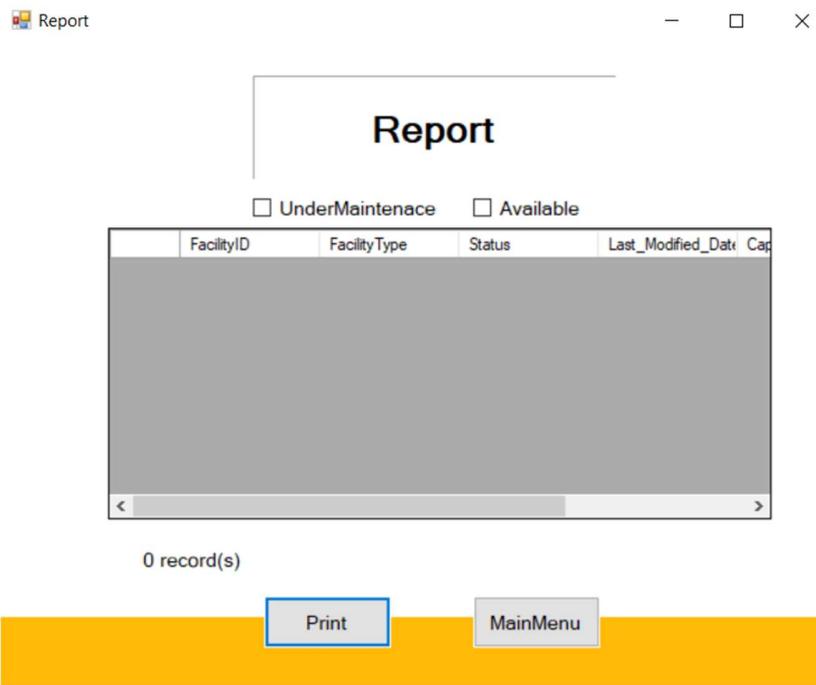
UnderMaintenance Available

FacilityID	FacilityType	Status	Last_Modified_Date	Cap

< >

0 record(s)

[Print](#) [MainMenu](#)



If the users choose to generate a maintenance report, this form will show up.

Report

Report

UnderMaintenance Available

	FacilityID	FacilityType	Status	Last_Modified_Date	Cap
▶	BD05	Badminton	Under Maintenance	29/8/2020	2-4

< >

1 record(s)

Print MainMenu

Report

Report

UnderMaintenance Available

	FacilityID	FacilityType	Status	Last_Modified_Date	Cap
▶	BD01	Badminton	Ready To Use	29/8/2020	2-4
	BD02	Badminton	Ready To Use		2-4
	BD03	Badminton	Ready To Use		2-4
	BD06	Badminton	Ready To Use		2-4
	BS01	Basketball	Ready To Use	4/9/2020	5-10
	BS02	Basketball	Ready To Use	29/8/2020	5-10
	BS06	Basketball	Ready To Use	3/9/2020	5-10

< >

18 record(s)

Print MainMenu

Report

Report

UnderMaintenance Available

	FacilityID	FacilityType	Status	Last_Modified_Date	
▶	BD01	Badminton	Ready To Use	29/8/2020	↑
	BD02	Badminton	Ready To Use		↑
	BD03	Badminton	Ready To Use		↑
	BD05	Badminton	Under Maintenance	29/8/2020	↑
	BD06	Badminton	Ready To Use		↑
	BS01	Basketball	Ready To Use	4/9/2020	↑
	BS02	Basketball	Ready To Use	29/8/2020	↑

◀ ▶

19 record(s)

[Print](#) [MainMenu](#)

The user can choose under maintenance , available or both to print



Facility Maintenance

Printed on 11-Sep-2020 07:08:19 PM
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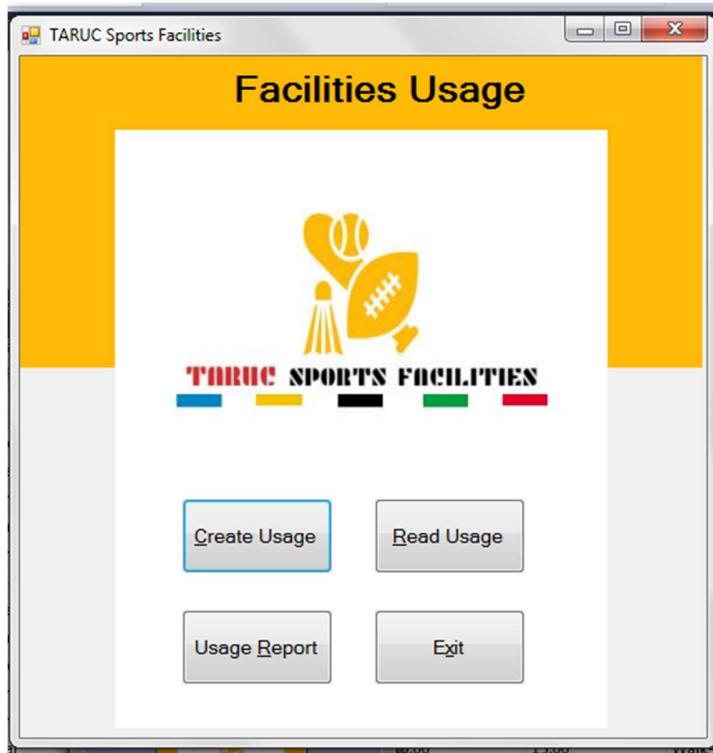
ID	Facility Type	Status	Last Modified Date	Capacity	Location
BD01	Badminton	Ready To Use	29/08/2020	2-4 persons	Sports Complex
BD02	Badminton	Ready To Use	-	2-4 Persons	Sports Complex
BD03	Badminton	Ready To Use	-	2-4 Persons	Sports Complex
BD05	Badminton	Under Maintenance	29/08/2020	2-4 Persons	Sports Complex
BD06	Badminton	Ready To Use	-	2-4 Persons	Sports Complex
BS01	Basketball	Ready To Use	04/09/2020	5-10 persons	West Campus
BS02	Basketball	Ready To Use	29/08/2020	5-15 Persons	West Campus
BS06	Basketball	Ready To Use	03/09/2020	5-10 persons	Sports Complex
FT01	Futsal	Ready To Use	-	10-15 Persons	West Campus
FT02	Futsal	Ready To Use	-	10-15 Persons	West Campus
SQ01	Squash	Ready To Use	-	2-4 Persons	Clubhouse
SQ02	Squash	Ready To Use	-	2-4 Persons	Clubhouse
TN01	Tennis	Ready To Use	-	2-4 Persons	East Campus
TN02	Tennis	Ready To Use	-	2-4 Persons	East Campus
TT01	Table Tennis	Ready To Use	-	2-4 Persons	Clubhouse
TT02	Table Tennis	Ready To Use	-	2-4 Persons	Clubhouse
TT03	Table Tennis	Ready To Use	-	2-4 Persons	Clubhouse
TT04	Table Tennis	Ready To Use	-	2-4 Persons	Clubhouse
VB02	Volleyball	Ready To Use	11/09/2020	5-10 persons	Sports Complex

19 record(s)

If the user clicks the print button , this page will be printed out.

If the user clicks the exit button, this system will go back to the main menu.

4.4. <Usage Module > by < HEE SZE WEI>



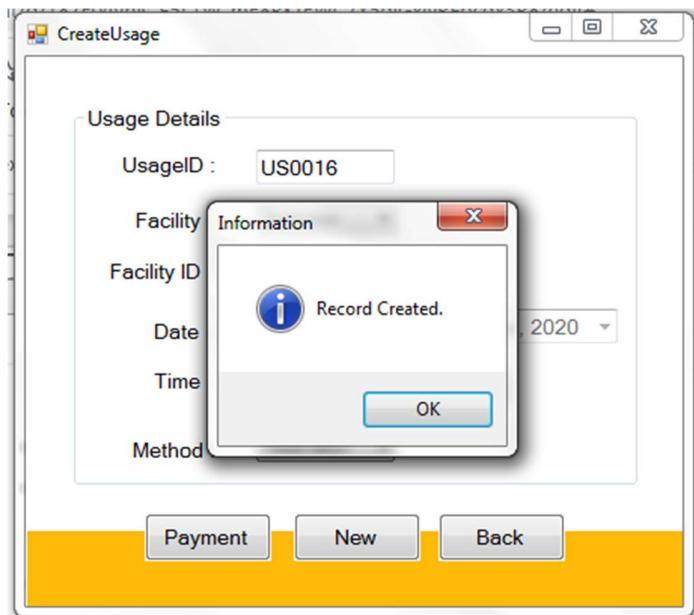
This is the facilities usage menu which let user to choose create usage, read usage or exit this menu.

A screenshot of a Windows application window titled "CreateUsage". The title bar has standard minimize, maximize, and close buttons. The main area is titled "Usage Details" in bold black font. It contains the following fields:

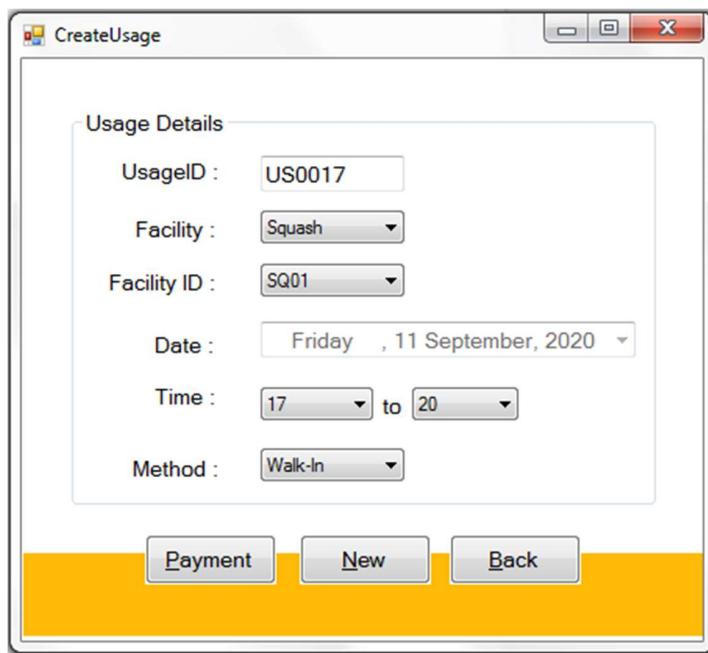
- UsageID :
- Facility :
- Facility ID :
- Date :
- Time : to
- Method :

At the bottom of the form are three buttons: "Payment" (yellow background), "New" (grey), and "Back" (grey).

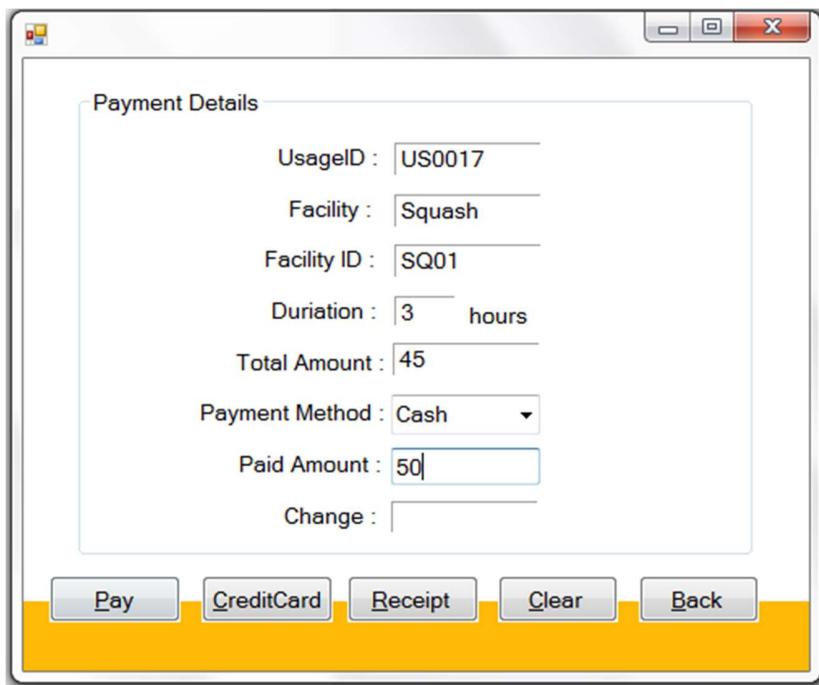
If the user chooses to create a new usage, form create usage will be shown. Then, the user is required to choose facility type, facility ID, start time, end time and method (reservation or walk-in).



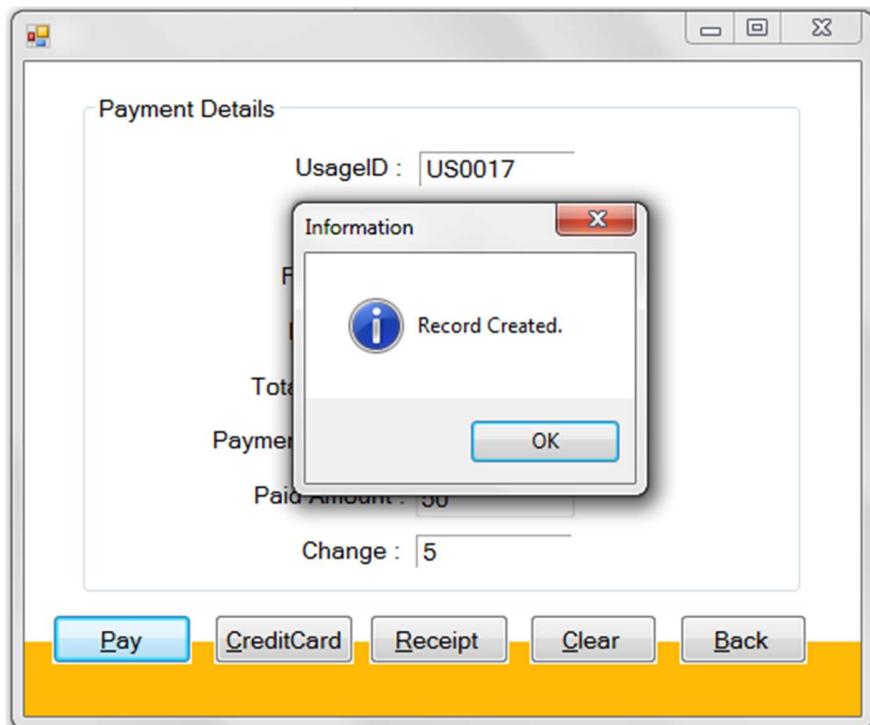
If all the usage details are filled up, a message box with “Record Created” will be popped out. Reservation customers are not required to make payment.



If the customer is a walk-in customer, payment is needed to be done. Click button payment and payment form will be shown.



If the customer choose to pay with cash, it is required to fill up the paid amount.



Then, user need to click the pay button so that it will calculate the change and the record will be created.



Receipt

Printed on 11-September-2020 06:03:42 PM

Prepared by TARUC Sports Facility

Facility Type : US0017
Facility ID : SQ01
Duration : 3 hour(s)
Payment Method : Cash
Total Amount : RM 45

Amount Paid : RM 50

Change : RM 5

After payment is done, click button receipt and receipt will be generated. Receipt will include the facility type, facility ID, duration, payment method, amount paid and change.

Payment Details

UsageID :

Facility :

Facility ID :

Duration : hours

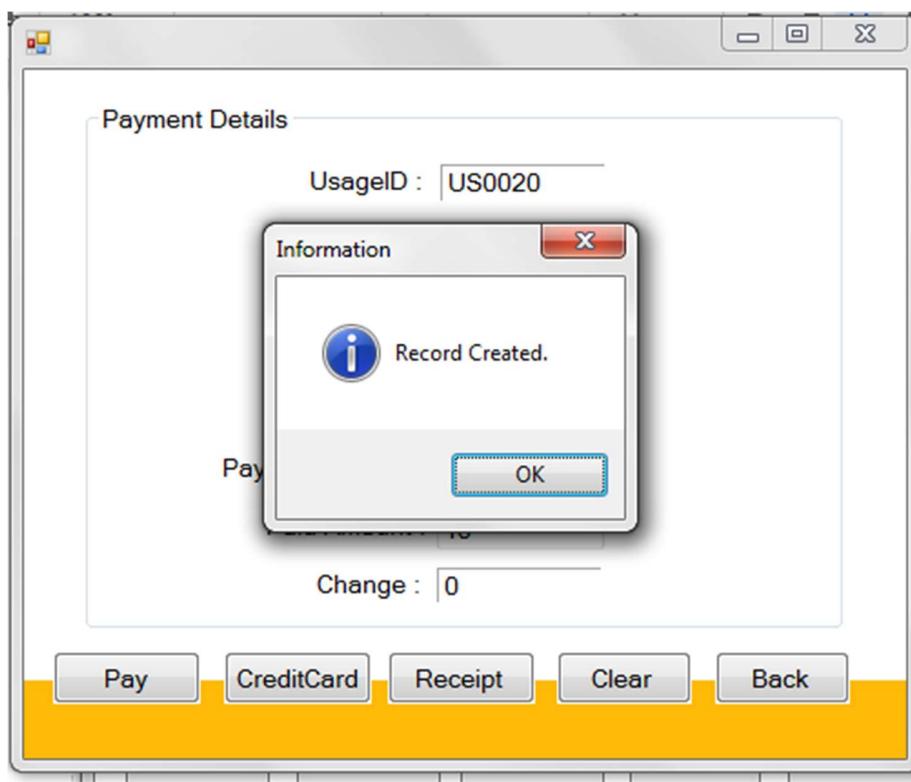
Total Amount :

Payment Method :

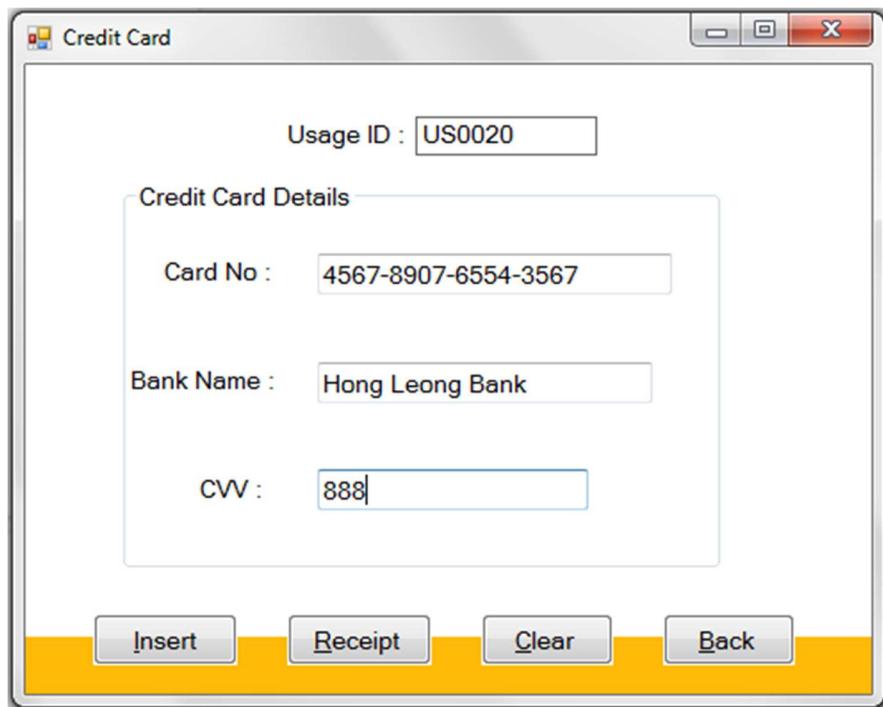
Paid Amount :

Change :

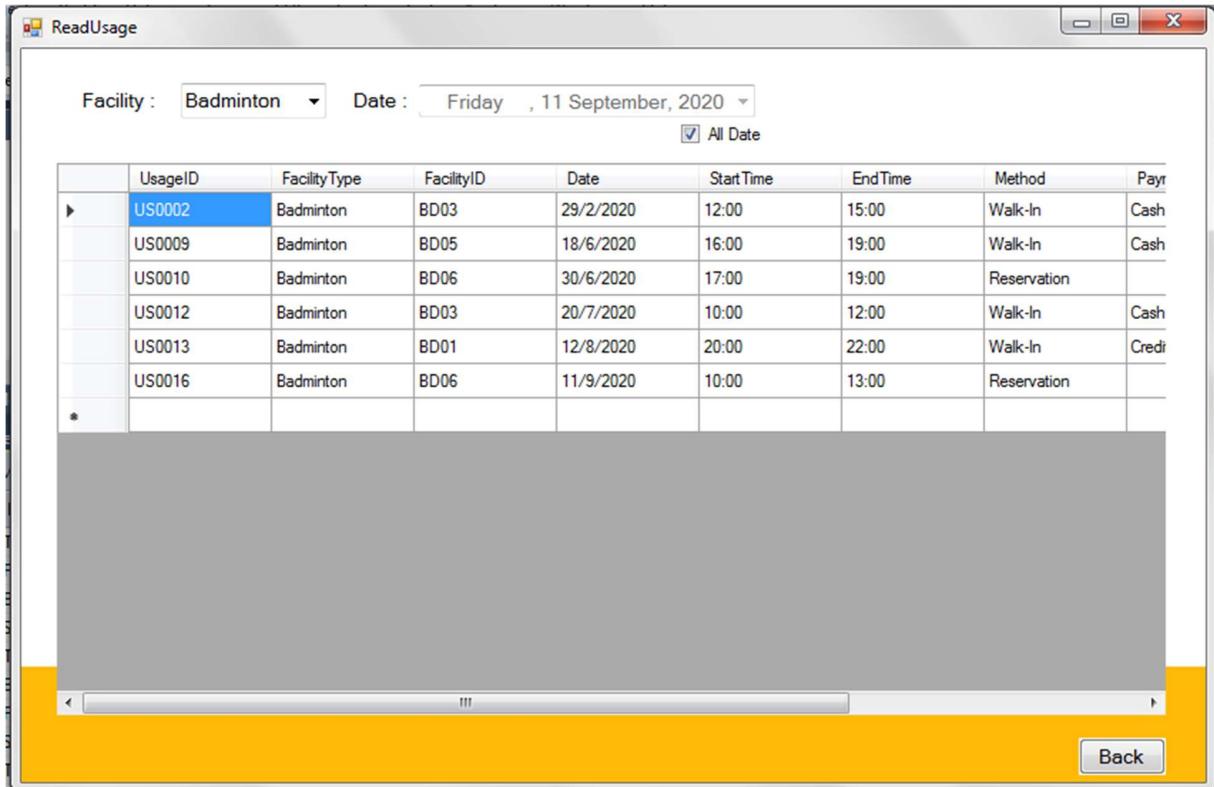
If the payment method is credit card, paid amount will be equal to total amount and change will be 0.



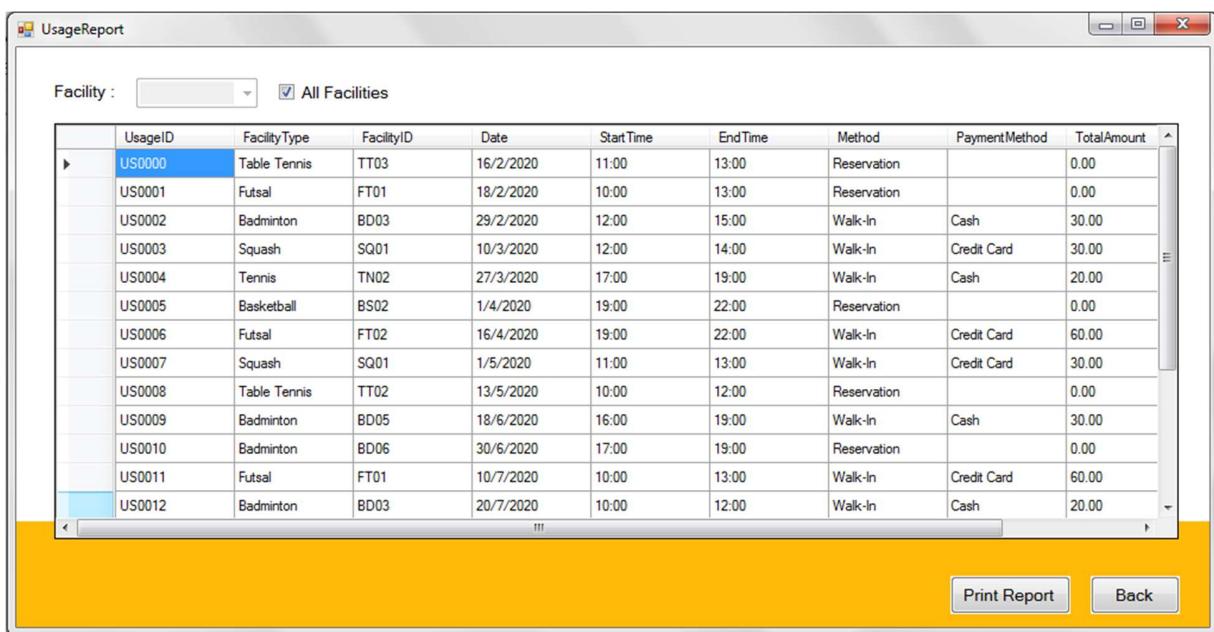
User is needed to press the button credit card and the record will be created. Then, a form to input credit card details will be shown.



If payment method is credit card. User is required to input details of the card such as bank name, card number and cvv. After details are filled up, press button insert and details will be recorded.



If the user chooses to read usage from the usage menu. A data grid view will be displayed together with the data recorded. The user can either choose to read all date or selected date of a facility type.



If the user chooses to read the usage report. A data grid view will be displayed together with the data recorded in a form. The user can either choose to read report of all facilities or selected facilities.



Facility Usage

Printed on 11-Sep-2020 06:39:20 PM

Prepared by TARUC Sports Facilities

Usage ID	Facility Type	Facility ID	Date	Start Time	End Time	Method	Payment Method	Total Amount
US0000	Table Tennis	TT03	16/02/2020	11:00	13:00	Reservation	-	-
US0001	Futsal	FT01	18/02/2020	10:00	13:00	Reservation	-	-
US0002	Badminton	BD03	29/02/2020	12:00	15:00	Walk-In	Cash	30.00
US0003	Squash	SQ01	10/03/2020	12:00	14:00	Walk-In	Credit Card	30.00
US0004	Tennis	TN02	27/03/2020	17:00	19:00	Walk-In	Cash	20.00
US0005	Basketball	BS02	01/04/2020	19:00	22:00	Reservation	-	-
US0006	Futsal	FT02	16/04/2020	19:00	22:00	Walk-In	Credit Card	60.00
US0007	Squash	SQ01	01/05/2020	11:00	13:00	Walk-In	Credit Card	30.00
US0008	Table Tennis	TT02	13/05/2020	10:00	12:00	Reservation	-	-
US0009	Badminton	BD05	18/06/2020	16:00	19:00	Walk-In	Cash	30.00
US0010	Badminton	BD06	30/06/2020	17:00	19:00	Reservation	-	-
US0011	Futsal	FT01	10/07/2020	10:00	13:00	Walk-In	Credit Card	60.00
US0012	Badminton	BD03	20/07/2020	10:00	12:00	Walk-In	Cash	20.00
US0013	Badminton	BD01	12/08/2020	20:00	22:00	Walk-In	Credit Card	20.00
US0014	Futsal	FT02	10/09/2020	19:00	22:00	Walk-In	Cash	60.00
US0015	Squash	SQ01	11/09/2020	13:00	15:00	Walk-In	Cash	30.00
US0016	Badminton	BD06	11/09/2020	10:00	13:00	Reservation	-	-
US0017	Squash	SQ01	11/09/2020	17:00	20:00	Walk-In	Cash	45.00
US0018	Table Tennis	TT03	11/09/2020	16:00	19:00	Walk-In	Credit Card	15.00

19 record(s)

Total Walk-In Sales :RM 450.00

When the button print report is clicked, this page will be printed. The total walk-in sales is included in this printed page.

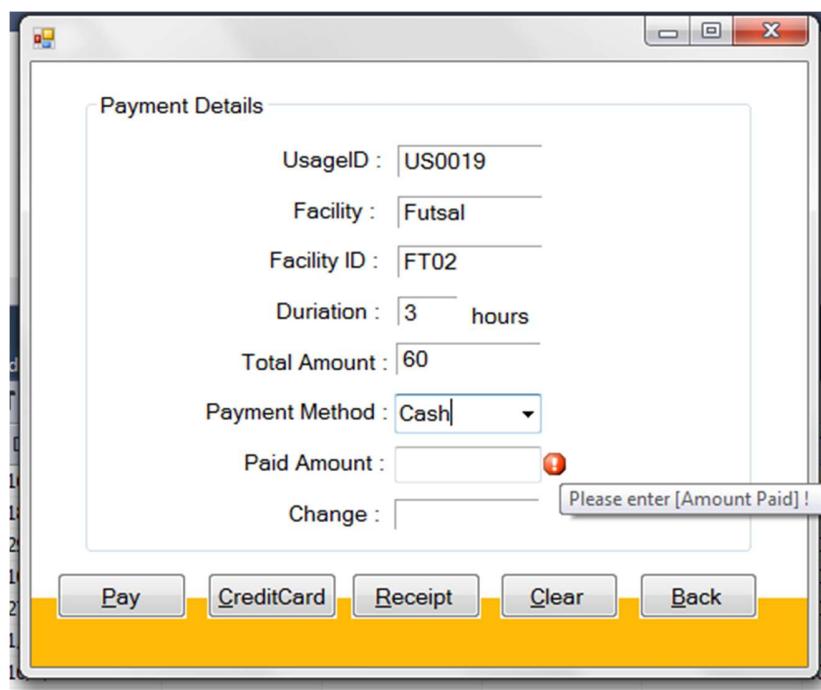
CreateUsage

Usage Details

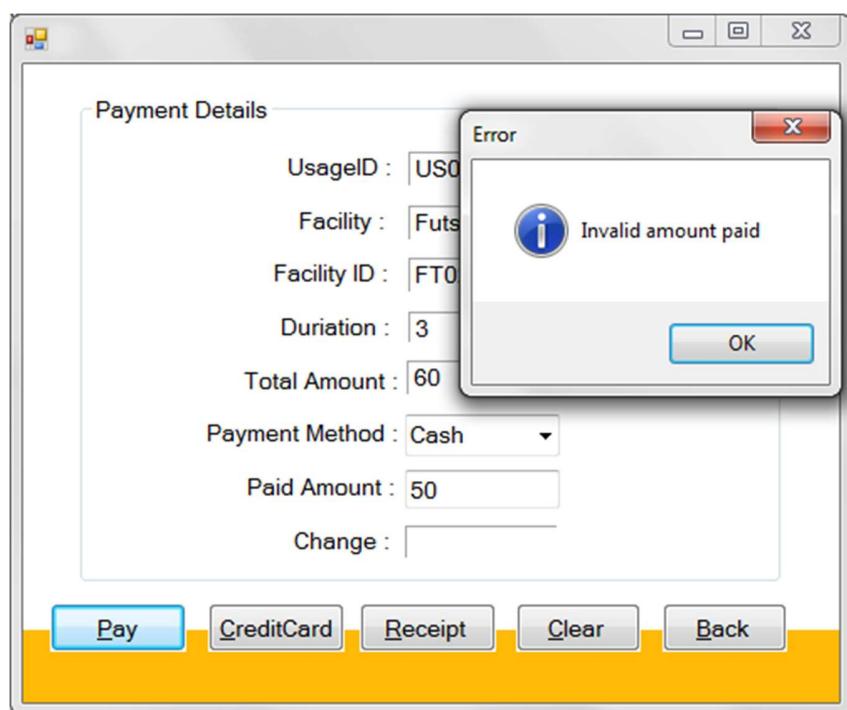
UsageID :	US0019
Facility :	<input type="button"/> !
Facility ID :	<input type="button"/> !
Date :	Friday , 11 September, 2020
Time :	<input type="button"/> ! <input type="button"/> !
Method :	<input type="button"/>

Payment New Back

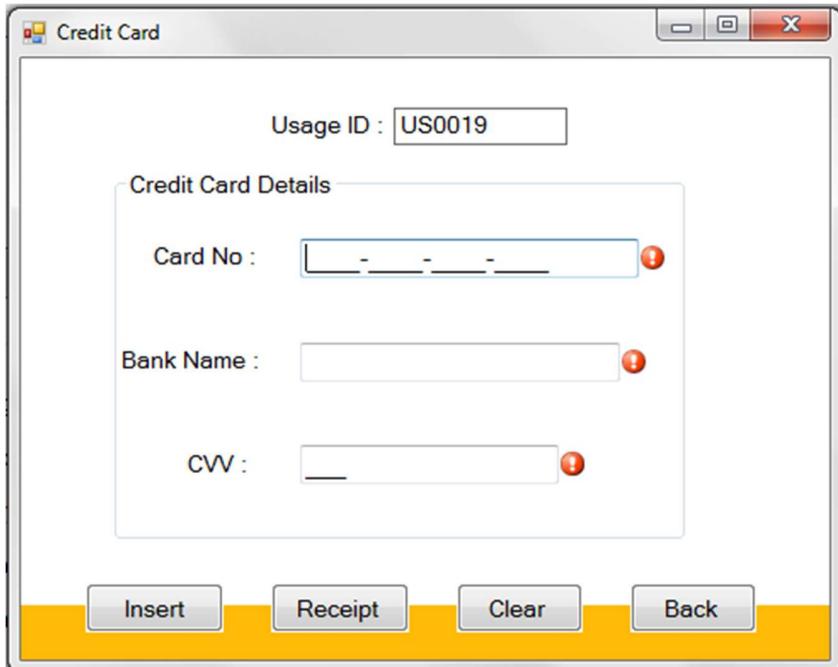
If details of usage are not filled up, the error provider will be shown up and relevant information will be show when your pointed point to the error provided.



If the customer chooses to pay by cash, the user must input paid amount. If the paid amount is not entered, error provider will be shown and the information “Please enter[Amount Paid]! will be displayed when the pointer point to it.

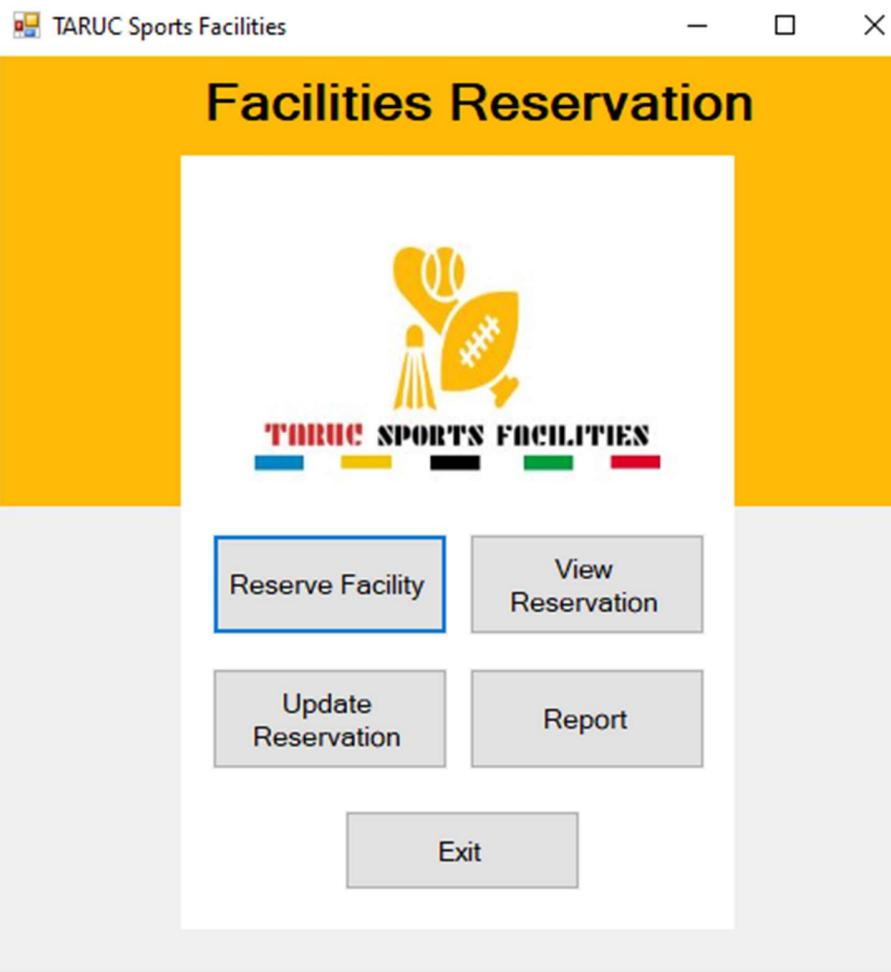


If the user input amount paid smaller than total amount, a error message box will be shown up with the message “Invalid amount paid”. Then, user is required to input the amount paid again.

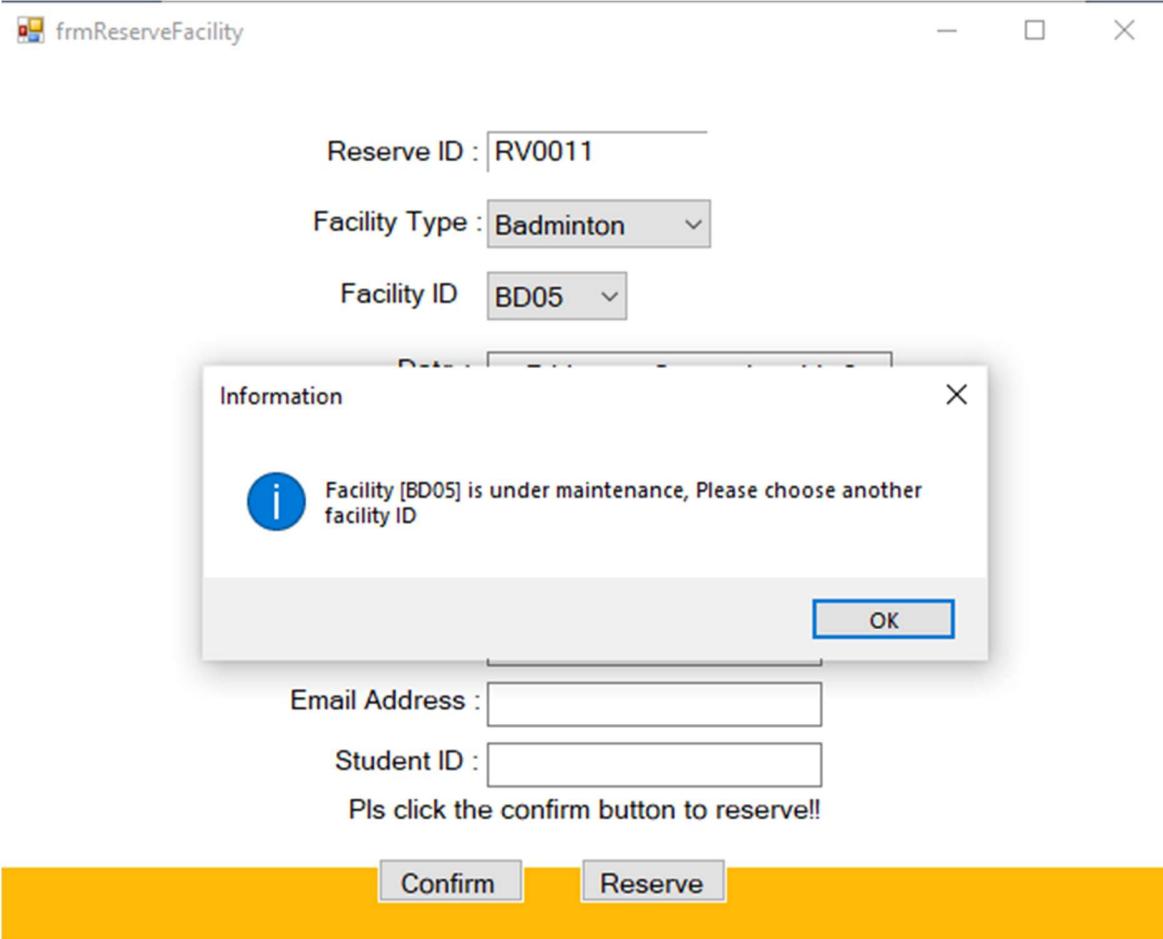


If card details are not filled up, error provider will be shown and the relevant message will be displayed when the pointer points to it.

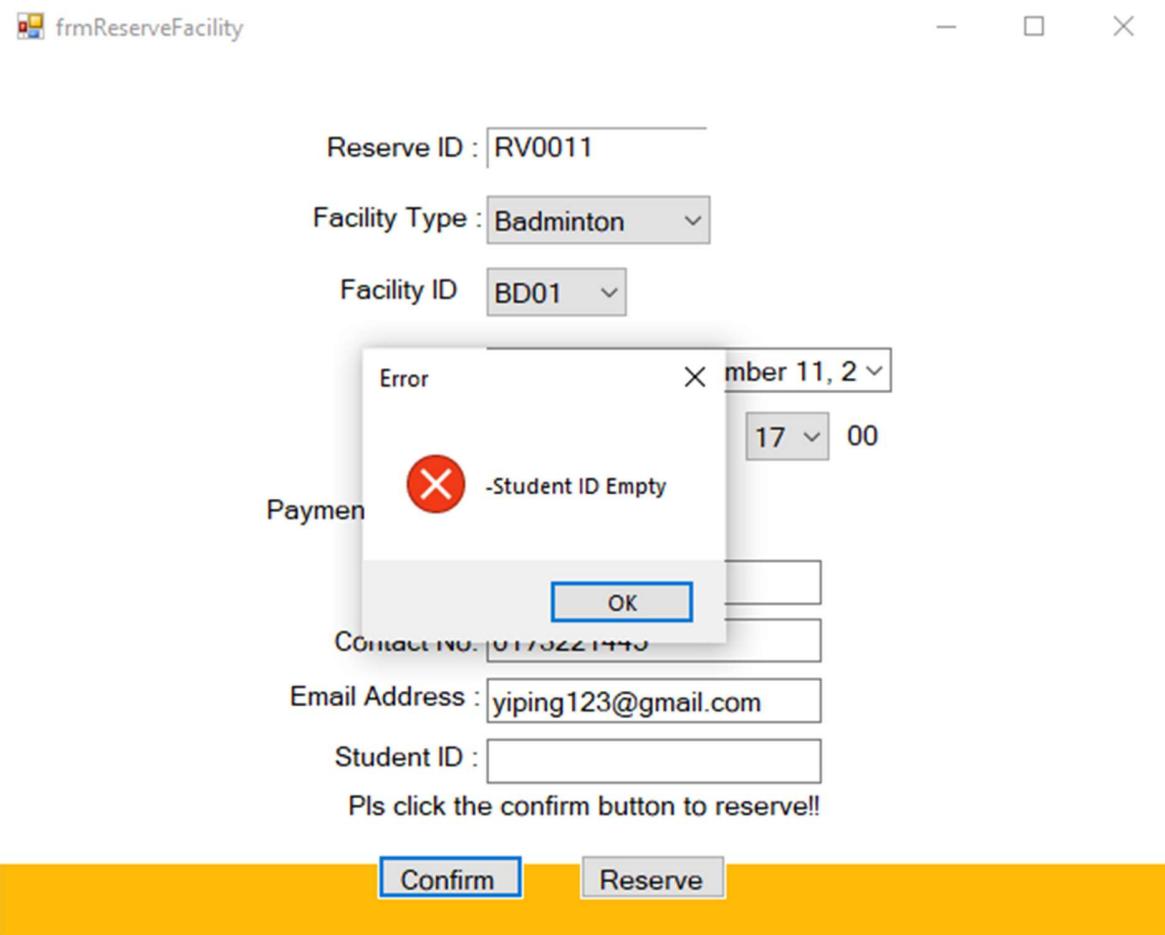
4.5. Facilities Reservation Module > by <HONG WEI HAO>



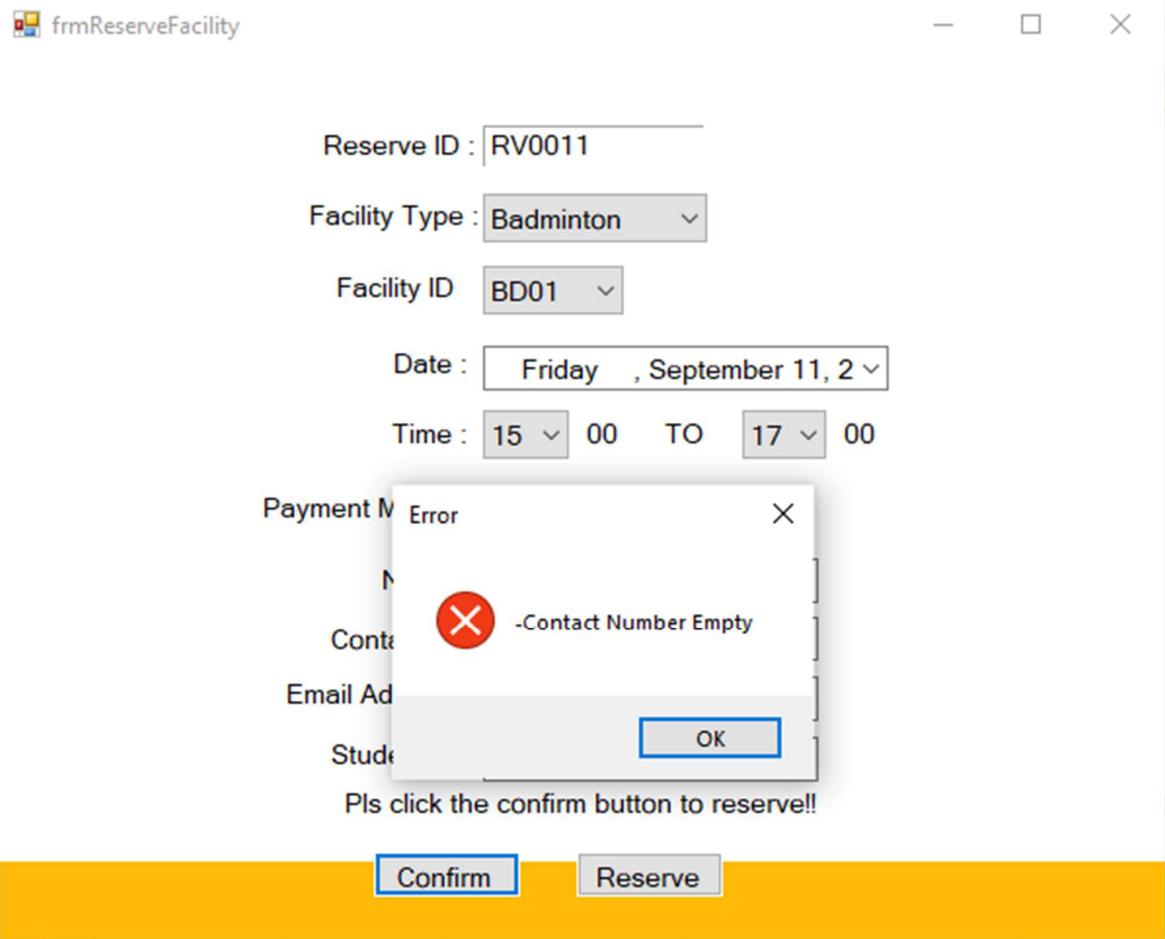
Here is the facility reservation main menu to let staff choose which sub function they want to perform.



If staff was choosing the facility that was under maintenance,it would prompt a message that said the facility was under maintenance and ask staff to choose another facility ID.



After staff click the confirm button, It will prompt a message of student id empty if staff forget or didnt input the value of student id.



It will also prompt a message of contact number empty if staff did not input the contact number value.

frmReserveFacility

Reserve ID : RV0011

Facility Type : Badminton

Facility ID : BD01

Date : Friday , September 11, 2

Time : 15 00 TO 17 00

Payme Confirmation

Is the details correct?
Pls click the reserve button after confirm

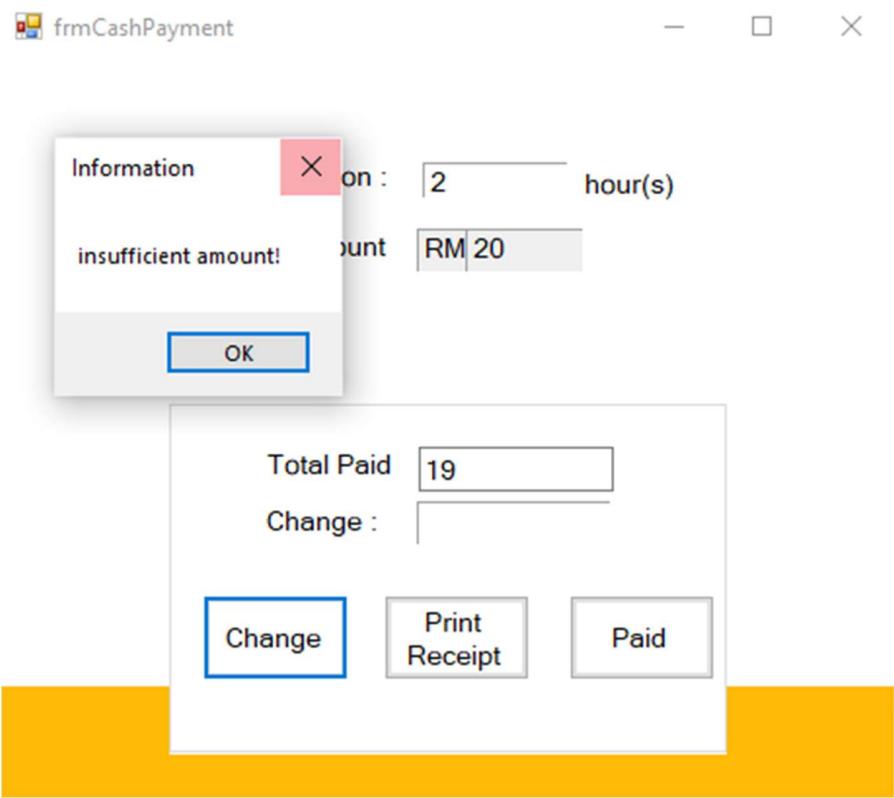
Email

Yes No

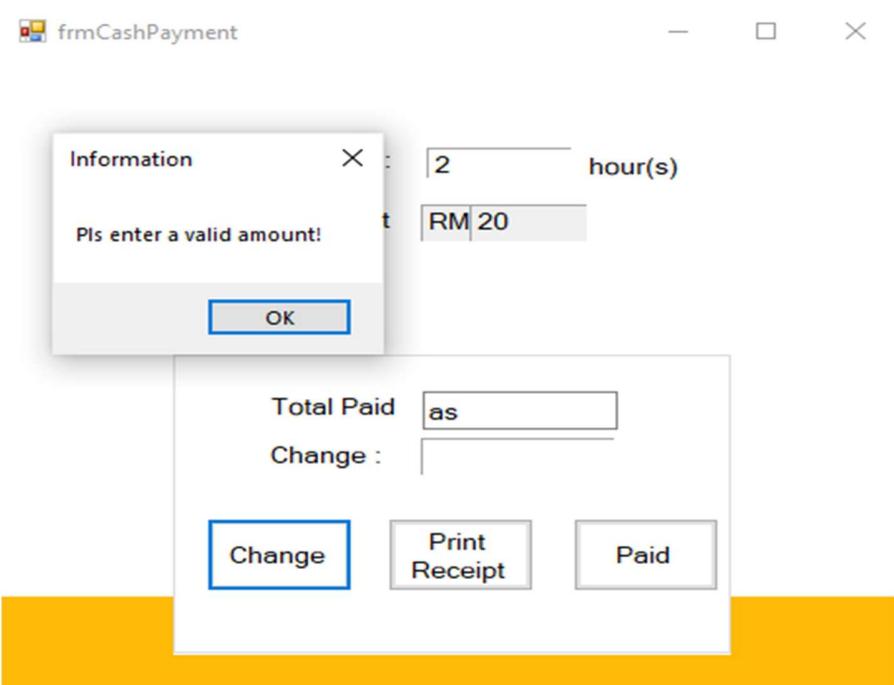
Pls click the confirm button to reserve!!

Confirm Reserve

Staff will click the confirm button to ensure all the details of the customer was correct. If customer prefer cash method, staff will choose the cash method to show the form cash payment.



In form cash payment, it will prompt a message of insufficient amount if the input value of total paid less than total amount.



It will prompt a message of invalid amount if staff input words or forget to input the value.

frmCashPayment

— □ ×

Duration : hour(s)

Total Amount

Total Paid

Change :

If the input value of total paid is larger than total amount, it will display the change of the amount to let staff know what is the balance they want to give back to the customer.



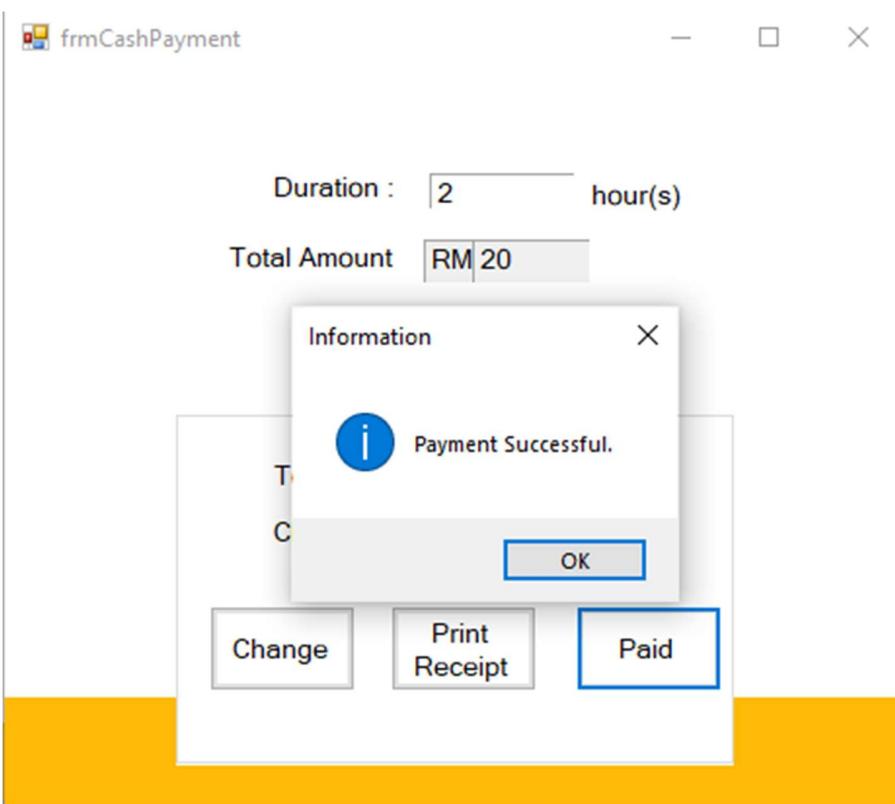
Booking Receipt

Printed on 11-September-2020 06:08:18 PM
Prepared by TARUC Sports Facility

Facility Type : Badminton
 Facility ID : BD01
 Period : 2 hour(s)
 Payment Method : Cash
 Total Amount : RM 20

Amount Paid : RM 25

It will generate the receipt if staff click the print button to give the customer as proof of payment.



After staff click the paid button,it will prompt a message of payment successfully and save the reservation data inside the database.

Reserve ID : RV0012

Facility Type : Squash

Facility ID : SQ01

Date : Friday , September 11, 2

Time : 14 00 TO 16 00

Payment Method : Credit C

Name : Tan Yee Yee

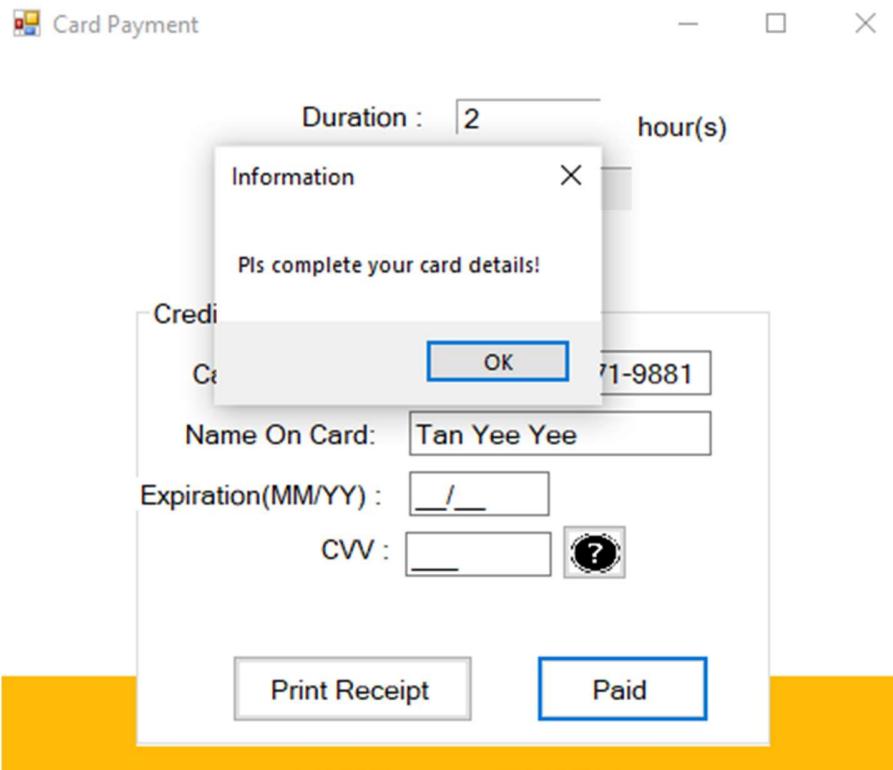
Contact No: 0134456779

Email Address : yeeyee0811@gmail.com

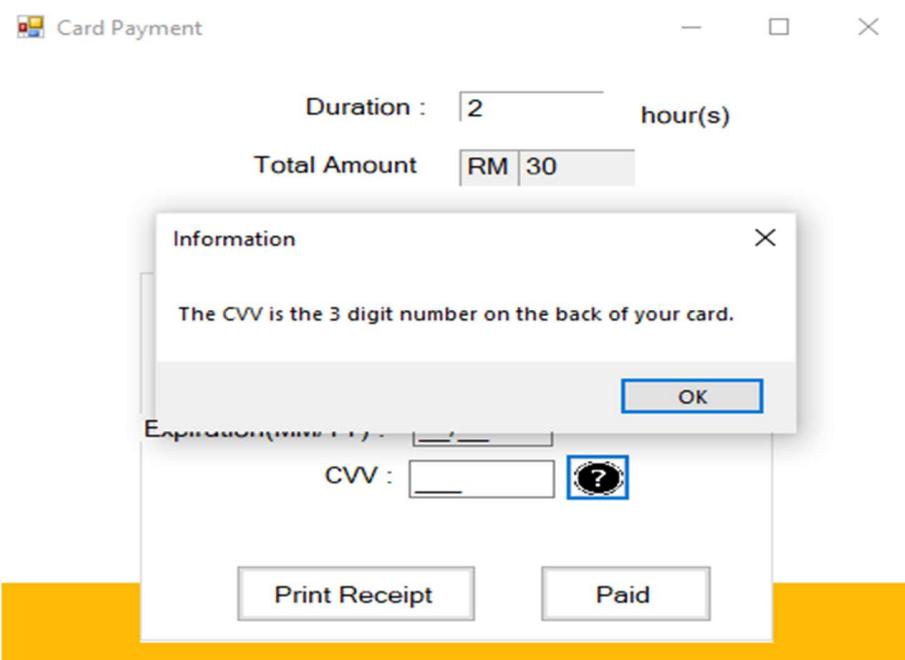
Student ID : 18WMR02111

Pls click the confirm button to reserve!!

If a customer prefers a card method, staff will choose the card method to show the form card payment.



In form card payment, it will prompt a message of ask staff to complete customer's card details if one of the values in card details was empty.



If staff click the button info, it will prompt a message to show that the meaning of CVV.



Booking Receipt

Printed on 11-September-2020 06:54:16 PM

Prepared by TARUC Sports Facility

Facility Type : Squash
Facility ID : SQ01
Period : 2 hour(s)
Payment Method : Credit Card
Total Amount : RM 30

It will generate the receipt if staff click the print button to give the customer as proof of payment in credit card method.

frmViewReservation

ReserveID	FacilityID	FacilityType	Date	StartTime	EndTime	Name
RV0001	BD02	Badminton	9/13/2020	14:00	16:00	Cheam Heng Sh...

< >

Exit

Before staff create a new booking for customers, it can go to the form of view reservation to check and ensure that the facility in which time and date has been booked.

The screenshot shows a Windows application window titled "Update Reservation". Inside, there is a table with columns: ReserveID, FacilityID, FacilityType, Date, StartTime, EndTime, Name, and Contact. A message at the top says "Double click the row that you want to update." The table contains 10 rows of data, with the first row (RV0001) highlighted in blue.

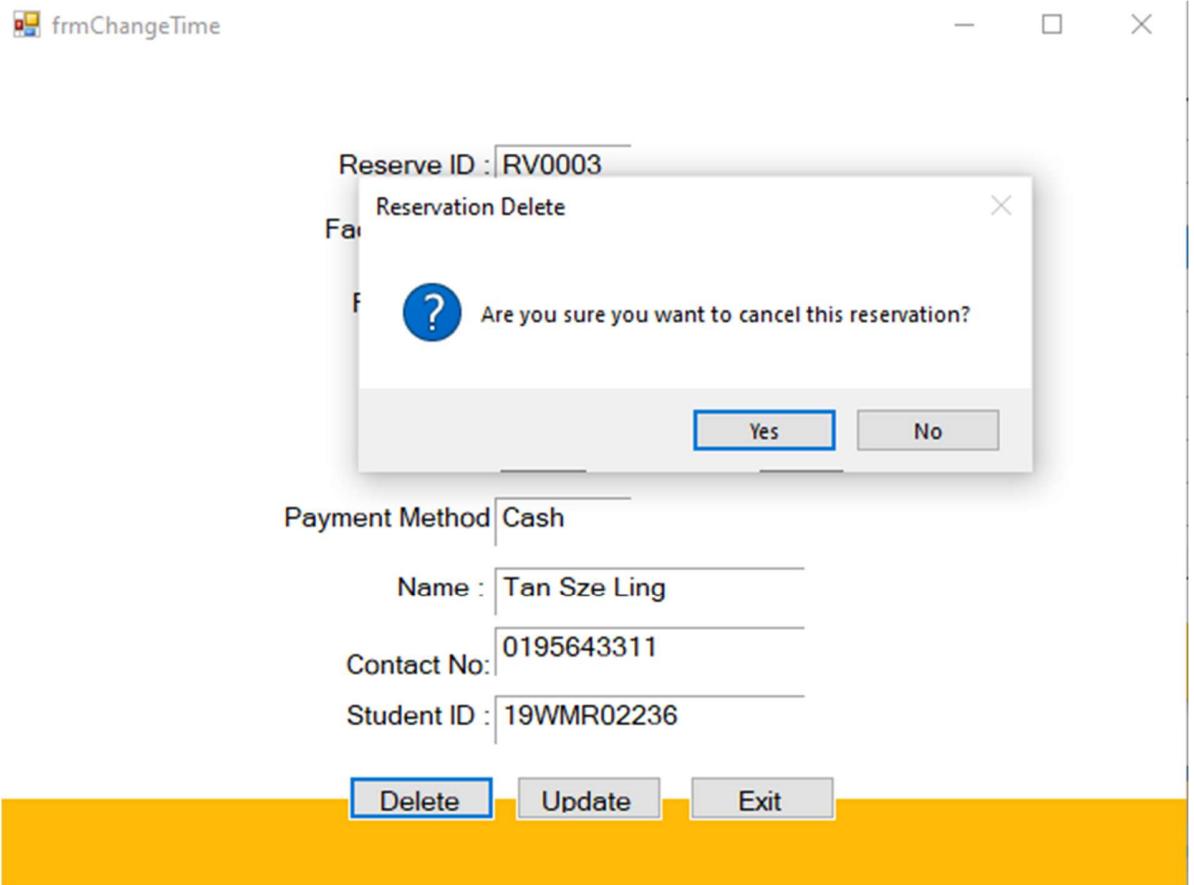
	ReserveID	FacilityID	FacilityType	Date	StartTime	EndTime	Name	Contact
▶	RV0001	BD02	Badminton	9/13/2020	14:00	16:00	Cheam Heng Sh...	011766
	RV0002	BS01	Basketball	9/13/2020	18:00	20:00	Tan Li Yan	013344
	RV0003	SQ02	Squash	9/17/2020	15:00	17:00	Tan Sze Ling	019564
	RV0004	TT01	Table Tennis	9/17/2020	13:00	14:00	Hee Sze Wai	017777
	RV0005	TT02	Table Tennis	9/17/2020	16:00	18:00	Jason Tan	013443
	RV0006	SQ01	Squash	9/17/2020	10:00	12:00	Lee Cheng Zhan	017558
	RV0007	BS02	Basketball	9/22/2020	14:00	16:00	Chew Hwa Li	013112
	RV0008	BD05	Badminton	9/22/2020	20:00	22:00	Jetson Lim	014555
	RV0009	TN01	Tennis	9/11/2020	11:00	12:00	Hong Li Yan	013224
<	RV0010

Exit

In the form of update reservation, staff can double click the row they want to update or delete because of customer cancel booking or change the time.

The screenshot shows a Windows application window titled "frmChangeTime". It contains fields for Reserve ID (RV0003), Facility Type (Squash), Facility ID (SQ02), Date (Thursday, September 17, 2020), Time (15:00 TO 17:00), Payment Method (Cash), Name (Tan Sze Ling), Contact No. (0195643311), and Student ID (19WMR02236). At the bottom are buttons for Delete, Update (which is highlighted in blue), and Exit. A modal dialog box titled "Information" with an exclamation icon displays the message "Time was updated".

Staff only can update the date and time of reservation and it will prompt the message of time was updated after staff modified it and clicked the update button.



Before staff delete the record ,it will prompt a message of confirmation of delete data to ensure staff will not delete the data wrongly.

The screenshot shows a Windows application window titled "Report". At the top, there are filters: "Facility Type : Badminto" with a dropdown arrow, a checked checkbox for "All Facilities", and buttons for "Print" and "Exit". Below the filters is a table displaying reservation data:

	ReserveID	FacilityID	FacilityType	Date	StartTime	EndTime	Name
▶	RV0001	BD02	Badminton	9/13/2020	14:00	16:00	Cheam Heng Sh...
	RV0008	BD05	Badminton	9/22/2020	20:00	22:00	Jetson Lim

In form reports, staff can choose which facility type of report they want to see or see the report of all facilities.

Facility Reservation										
Printed on 11-Sep-2020 07:07:48 PM										
Prepared by TARUC Sports Facilities										
										
Reserve ID Facility ID Facility Type Date Start Time End Time Name Contact No Student ID Amount Payment Method										
RV0001	BD02	Badminton	13/09/2020	14:00	16:00	Cheam Heng Sheong	01176654556	19NMR02467	20.00	Cash
RV0008	BD05	Badminton	22/09/2020	20:00	22:00	Jetson Lim	0145556778	19NMR05567	20.00	Cash
2 record(s) Total Reservation Sales : RM 40.00										

It will generate a report for the manager if staff click the print button.

Facility Reservation										
Printed on 11-Sep-2020 07:08:40 PM										
Prepared by TARUC Sports Facilities										
										
Reserve ID Facility ID Facility Type Date Start Time End Time Name Contact No Student ID Amount Payment Method										
RV0001	BD02	Badminton	13/09/2020	14:00	16:00	Cheam Heng Sheong	01176654556	19NMR02467	20.00	Cash
RV0002	BS01	Basketball	13/09/2020	18:00	20:00	Tan Li Yan	013345678	19NMR02331	30.00	Credit Card
RV0003	SQ02	Squash	17/09/2020	15:00	17:00	Tan Sze Ling	0195643311	19NMR02236	15.00	Cash
RV0004	TT01	Table Tennis	17/09/2020	13:00	14:00	Hee Sze Wai	0177774331	19NMR04551	5.00	Credit Card
RV0005	TT02	Table Tennis	17/09/2020	16:00	18:00	Jason Tan	0134456771	19NMR04455	10.00	Cash
RV0006	SQ01	Squash	17/09/2020	10:00	12:00	Lee Cheng Zhan	0175589111	19NMR02411	30.00	Cash
RV0007	BS02	Basketball	22/09/2020	14:00	16:00	Chew Hwa Li	0131123887	19NMR02113	30.00	Credit Card
RV0008	BD05	Badminton	22/09/2020	20:00	22:00	Jetson Lim	0145556778	19NMR05567	20.00	Cash
RV0009	TN01	Tennis	11/09/2020	11:00	12:00	Hong Li Yan	0132241556	19NMR04411	20.00	Credit Card
RV0010	SQ01	Squash	11/09/2020	16:00	18:00	Tan Zhi Yan	01132245572	18NMR02232	30.00	Cash
10 record(s) Total Reservation Sales : RM 210.00										

Staff able to generate the report of all facilities to let the manager know which facility is most popular to reserve.