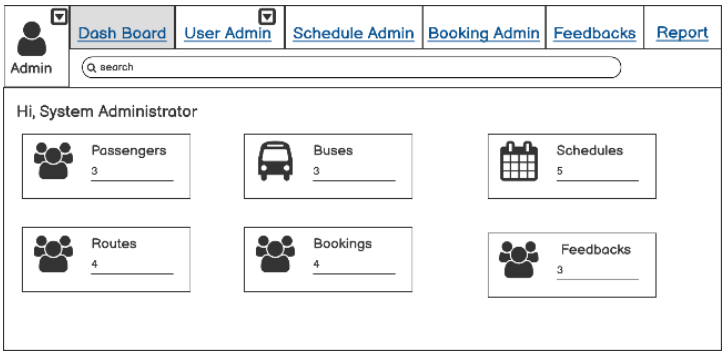
BSc (Hons) in Information Technology
Year 3

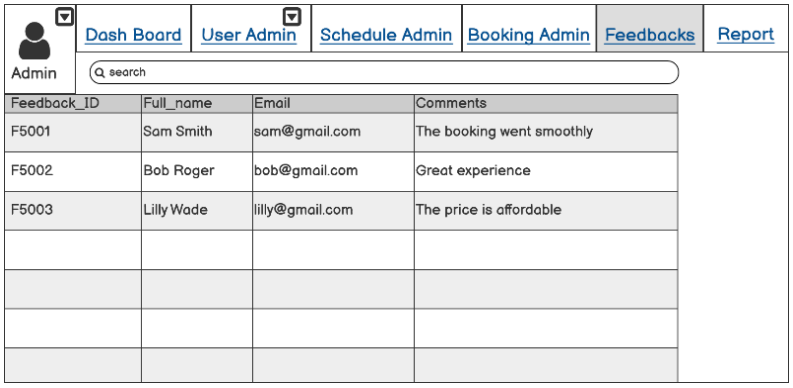
Assignment 1

IT3040 – ITPM **Semester 1**

Group No :	REG/WD/02
Brief description of the project	**With the ease of covid-19 restrictions, people have started travelling more often with their family and friends. The tourism industry has also seen gradual growth in the past few months. Resulting in more people using public transportation. Booking a seat on a bus is a difficult task. To smooth the process our team has come up with the idea of a Bus Ticket Booking Management System.** **We have identified 4 main functions of the system as,** **1. User Management** **2. Schedule Management** **3. Booking Management** **4. Admin Management** **We have focused our system on buses which travel long distances and have not considered the payment part of the system. Since it's more convenient for the bus operators to collect cash on the spot. Therefore, users do not need to worry about cash refunds. This also makes our system more reliable.**
INDIVIDUAL DETAILS OF GROUP MEMBERS	
Registration No	**IT20187514**
Student Name	**S.M. Suriyaarachchi**
Function(s) **Note**: Include the functions required to complete for **sprint 1** & **sprint 2**	**Sprint 1** • Admin dashboard UI • Admin profile UI • Feedbacks admin UI • Reports admin UI **Sprint 2** • User admin UI • User admin view UI • Alert message for delete • Deleted users

	Picture of interface 1	Brief description of interface 1
Sprint 1		**Purpose** : This interface will be the dashboard for the admin user. **Flow**: Once the admin user logs into the system he/she will be able to view this interface. **Good practices**: ▪ I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes.

		▪ I have used common names for the labels to make it more user friendly rather than using system-oriented terms. ▪ I have made the interface simpler for a better user experience and understanding.
	Picture of interface 2	**Brief description of interface 2**
		Purpose : This interface is used to update admin user data **Flow**: Once the admin user clicks on the 'Profile' option in the drop-down menu (The dropdown menu can be opened by clicking on the icon which is in the top-right corner of the admin avatar) he/she will be directed to this page. If the admin user wishes to do any changes, he/she can do it via this interface. **Good practices**: ▪ I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes. ▪ The interface is focused on a single task, which is updating admin user details. ▪ I have made the components (buttons, labels etc.) large enough to increase user
	Picture of interface 3	**Brief description of interface 3**



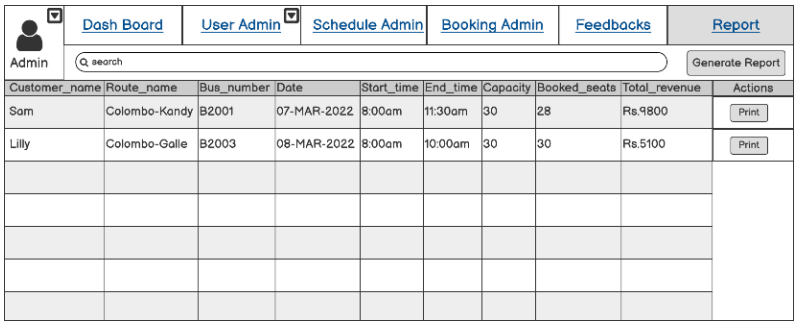
Purpose : This interface shows all the feedbacks placed by users.

Flow: Once the admin user clicks on the 'Feedbacks' tab he/she will be directed to this interface.

Good practices:

- I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes.
- The interface is focused on a single task, which is viewing all the user feedbacks.
- I have used common names for the labels to make it more user friendly rather than using

Picture of interface 4	Brief description of interface 4

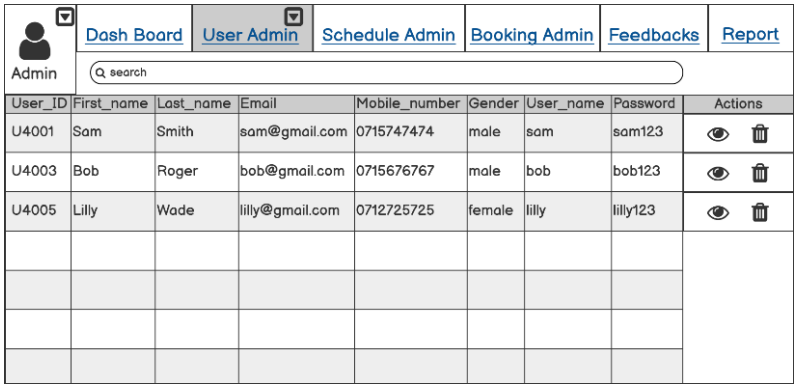


Purpose : This interface shows the report generation options of the system.

Flow: When the admin user needs to generate a full report of the system, he/she must click on the 'Generate Report' button. If the admin user wishes to get only the information of a single row, he/she can click on the 'Print' button and get the information of the needed row.

Good practices:

- I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes.
- The interface is focused on a single task, which is generating reports.
- I have made the components

	Picture of the interface_5	Brief description of interface_5
Sprint 2		**Purpose** : This interface shows all the details of the registered users. **Flow**: The admin user can search a record in the table using the search option. Using the given two icons, admin users can view and delete records from the system. **Good practices**: ▪ I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes. ▪ When hover over to one of the icons it displays the action as a clue (When hovered over to the eye icon, a text saying 'view' will appear). ▪ I have made the components (buttons, labels etc.) large enough to increase user accessibility.
	Picture of the interface_6	**Brief description of interface_6**

		Purpose : This interface shows the entered details of a user. **Flow**: By clicking on the icon (eye icon) in the action's column, admin users can view the user details in a more detailed manner. **Good practices**: ▪ The interface is focused on a single task, which is displaying user details in a detailed manner. ▪ I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes. ▪ I have used common names for the labels to make it more user friendly rather than using system-oriented terms.
	Picture of the interface_7	**Brief description of interface_7**

		Purpose : This interface is the alert pop-up message which gets users confirmation for the action **Flow**: When the admin user clicks on the delete icon (trash icon) in the actions' column, this alert message will appear in the screen to verify the operation. Admin user can select 'No' to not to delete the record and 'Yes' to delete the record from the system. **Good practices**: ▪ The interface is focused on a single task, which is displaying an alert message. ▪ This provides the user to undo the delete operation if clicked by mistake. ▪ I have provided a meaningful message regarding the action about to take.
	Picture of the interface_8	**Brief description of interface_8**

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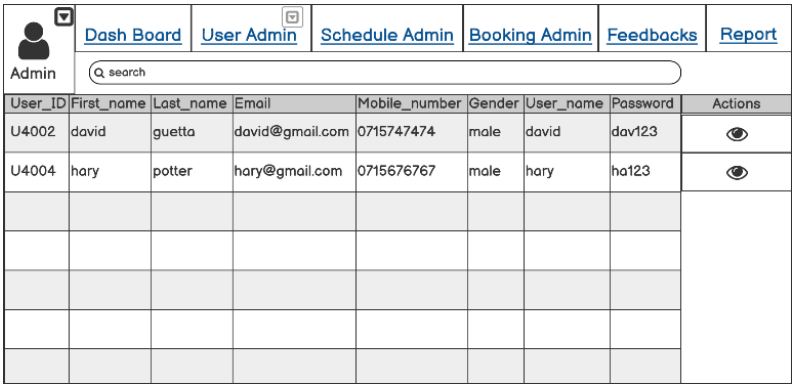
<table>
<tr>
<td></td>
<td>


</td>
<td>
Purpose : This interface shows the deleted users of the system.

Flow: Using the drop-down option given in the top-right corner of the user admin tab, admin user can view this interface. Once the eye icon is clicked in the action column an interface which is similar to interface 07 can be seen.

Good practices:
▪ I have given meaningful label names which starts with a capital letter, also I have made sure that there are no spelling mistakes.

▪ I have made the components (buttons, labels etc.) large enough to increase user accessibility.

▪ I have used common names for the labels to make it more user friendly rather than using system-oriented terms.
</td>
</tr>
<tr>
<td>Registration No</td>
<td colspan="2">IT20192396</td>
</tr>
<tr>
<td>Student Name</td>
<td colspan="2">Hussain Ajward M.N.M</td>
</tr>
<tr>
<td>Function(s)

Note: Include the functions required to complete for sprint 1 & sprint 2</td>
<td colspan="2"><u>Sprint 1</u>
• Designing User Homepage
• Creating User Registration form
• Creating User Login form
• Creating User Profile for profile update and delete

<u>Sprint 2</u>
• Designing user schedule page
• Creating Ticket Booking form
• Designing My Bookings view page
• Creating Review form</td>
</tr>
</table>

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Assignment 1

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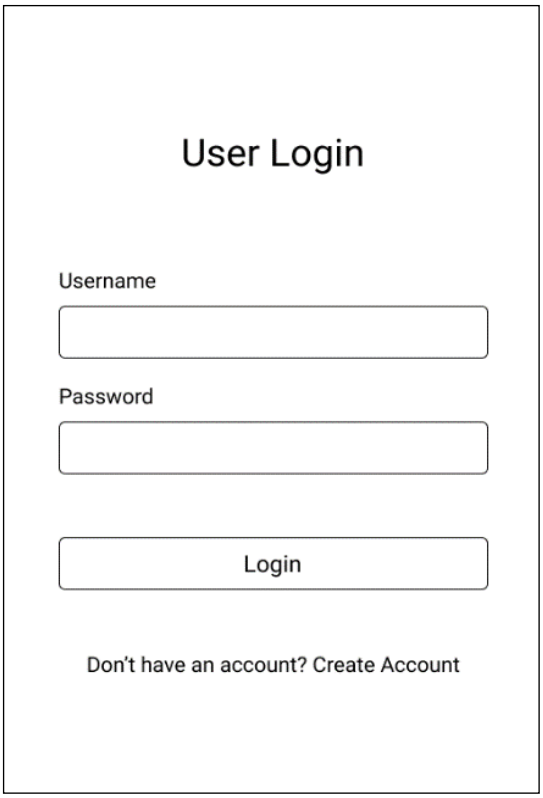
<table>
<tr><th rowspan="4">Sprint 1</th><th>Picture of interface 1</th><th>Brief description of interface 1</th></tr>
<tr><td>
</td><td>Purpose : This interface will be used to register user to the system.

Flow: Initially, the user is required to enter first name, last name, username, email address, password, confirm password. After entering the required values user needs to click ‘Create Account’ button to get registered to the system. If user have already registered, they can click ‘Already have an account? Login’. Then they will be redirected to the user login page.

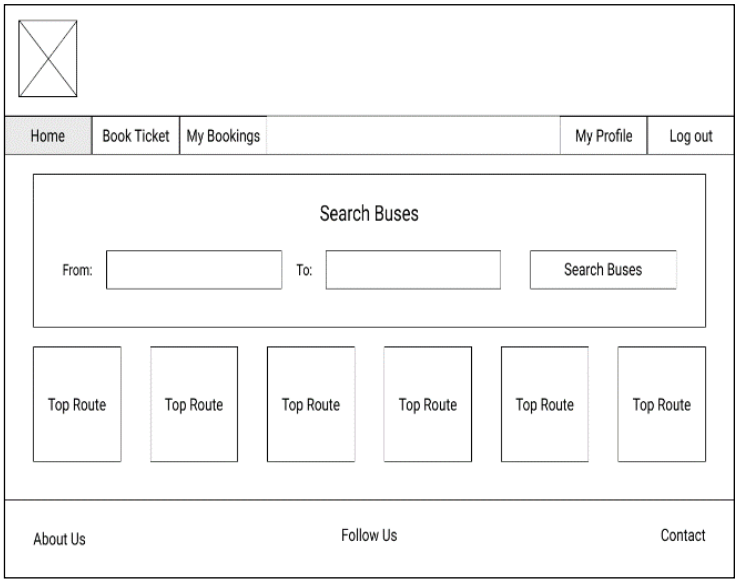
Good practices:
▪ This interface has given a meaningful title.
▪ The labels were given meaningful names and the first letter of each word was capitalized. It was made sure that there was no spelling mistake.
▪ It is ensured that this interface has only one primary focus which is user registration.</td></tr>
<tr><th>Picture of interface 2</th><th>Brief description of interface 2</th></tr>
</table>

<table>
<tr>
<td></td>
<td> 
</td>
<td>Purpose : This interface will be used to login to the system as a user.

Flow: The user is required to enter username and password. After entering required values user needs to click 'Login' button to login to the system. If they do not have an account, they can click 'Don't have an account? Create Account' link. Then they will be redirected to user registration interface.

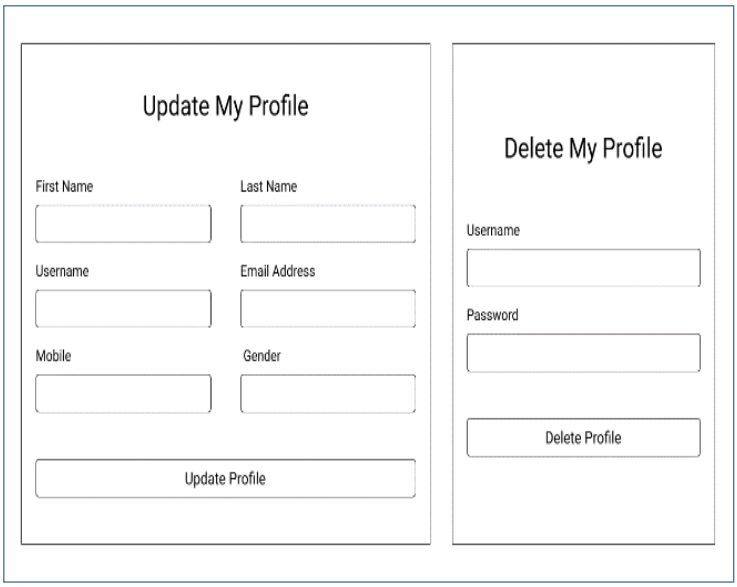
Good practices:
▪ It is ensured that this interface has only one primary focus which is user login.

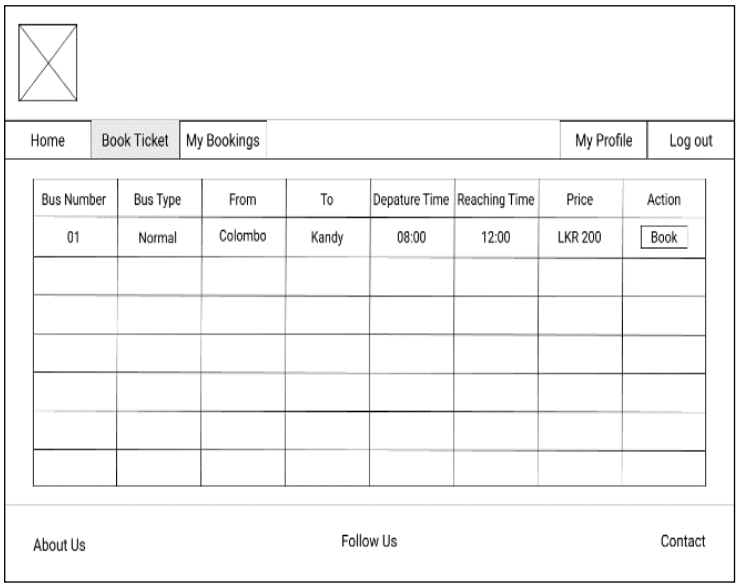
▪ Words used in this interface are easy to read and understand. No complex or system-oriented words used.

▪ This interface is kept simple and did not contain irrelevant information.</td>
</tr>
<tr>
<td></td>
<td>Picture of interface 3</td>
<td>Brief description of interface 3</td>
</tr>
<tr>
<td></td>
<td> 
</td>
<td>Purpose : This interface will be used as user homepage and used to search buses.

Flow: User will be redirected to this page after successful login. User is required to insert start point and destination. After that user need to click 'Search Buses' button to search available buses.

Good practices:
▪ The labels were given meaningful names and the first letter of each word was capitalized. It was made sure</td>
</tr>
</table>

		that there was no spelling mistake. ▪ It is ensured that the users do not have to think or work too hard to use an interface. ▪ Without asking the user to type-in values, they were given the option to choose the start point and destination from the drop-down lists.
	Picture of interface 4	**Brief description of interface 4**
		**Purpose** : This interface will be used to update and delete user profile. **Flow**: User can enter first name, last name, username, email address, mobile number, and gender. After entering details user needs to click 'Update Profile' button to update their details. If user wants to delete their profile, they need to enter username and password to confirm their identity. Then they need to click the 'Delete' button to delete their profile. **Good practices**: ▪ This interface has given a meaningful title. ▪ The labels were given meaningful names and the first letter of each word was capitalized. It was made sure that there was no spelling mistake. ▪ Words used in this interface are easy to read and understand. No complex or system-oriented words used.
	Picture of the interface_5	**Brief description of interface_5**

<table>
<tr>
<td rowspan="4">Sprint 2</td>
<td>


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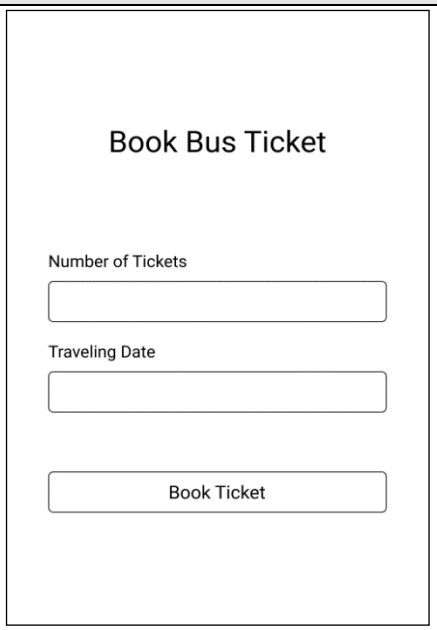
<td>

Purpose : This interface will be used to view bus schedule.

Flow: User will be redirected to this interface after clicking the ‘Book Ticket’ button on navigation bar. User can view the bus route details and they can click ‘Book’ button to go to the ticket booking interface.

Good practices:

- It is ensured that this interface has only one primary focus which is viewing bus schedule.
- The labels were given meaningful names and the first letter of each word was capitalized. It was made sure that there was no spelling mistake.
- Words used in this interface are easy to read and understand. No complex or system-oriented words used.

</td>
</tr>
<tr>
<td>**Picture of the interface_6**</td>
<td>**Brief description of interface_6**</td>
</tr>
<tr>
<td>


</td>
<td>

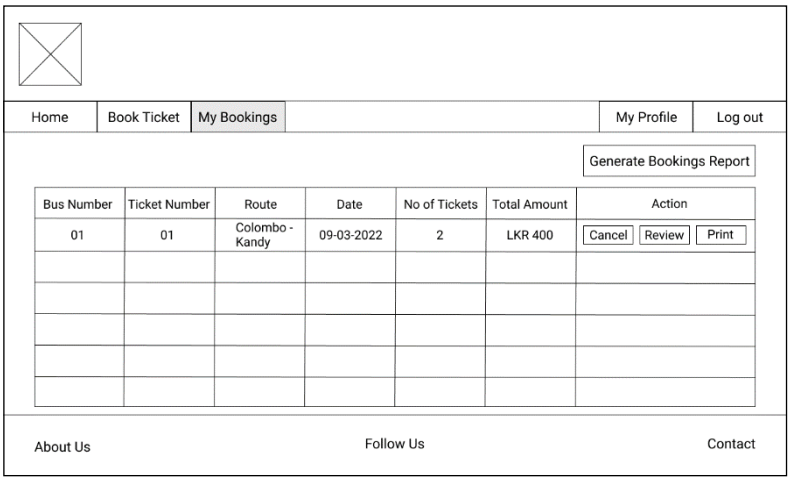
Purpose : This interface will be used to book bus ticket.

Flow: After choosing the bus user need to enter number of tickets and traveling date. After entering the required values, user needs to click ‘Book Ticket’ button to book bus ticket.

Good practices:

- This interface has given a meaningful title.
- Without asking the user to type-in values, they were given the option to choose

</td>
</tr>
</table>

		the number of tickets and traveling date. ▪ It is ensured that the users do not have to think or work too hard to use an interface.
	Picture of the interface_7	**Brief description of interface_7**
		**Purpose** : This interface will be used to view users booking history and do necessary actions. **Flow**: After viewing the booking details user can print the bus ticket. After the journey user can give a review. If user want to cancel their booking they can click 'Cancel' button. Also, user can generate a detailed report about their booking details by clicking 'Generate Bookings Report' button. **Good practices**: ▪ The labels were given meaningful names and the first letter of each word was capitalized. It was made sure that there was no spelling mistake. ▪ Words used in this interface are easy to read and understand. No complex or system-oriented words used. ▪ It is ensured that the users do not have to think or work too hard to use an interface.
	Picture of the interface_8	**Brief description of interface_8**

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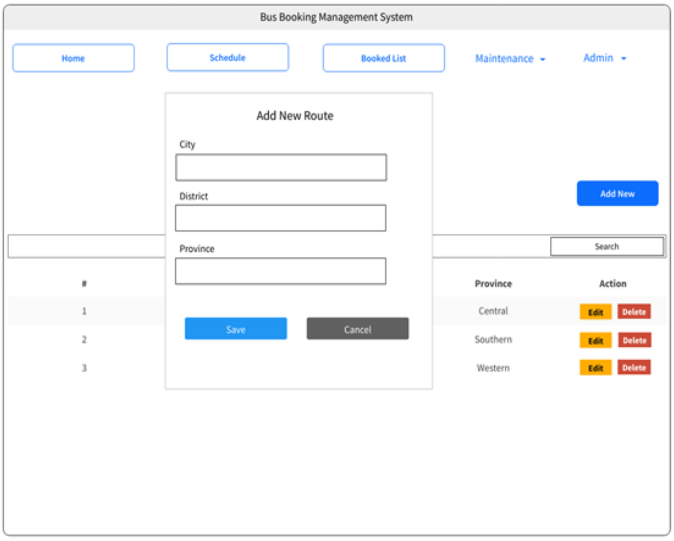
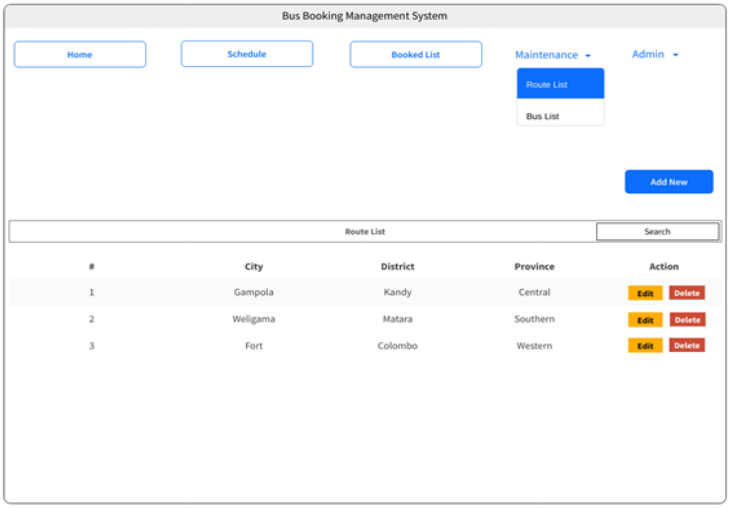
		Purpose : This interface will be used to submit review. **Flow**: To submit a review user is required to enter comments about system, bus journey, and rating for the journey. After entering they needs to click 'Submit Review' button to submit the user review. **Good practices**: ▪ It is ensured that this interface has only one primary focus which is giving review. ▪ It is ensured that the users do not have to think or work too hard to use an interface. ▪ The labels were given meaningful names and the first letter of each word was capitalized. It was made sure that there was no spelling mistake.
Registration No	**IT20116910**	
Student Name	**Ifham N.M**	
Function(s) **Note**: Include the functions required to complete for **sprint 1** & **sprint 2**	**Sprint 1** • Add the route • Display the routes by list • Search the route • Update/Edit the route • Delete the route **Sprint 2** • Add the schedule • Display the schedules by list • Search the schedule • Update/Edit the schedule • Delete the schedule	
	Picture of interface 1	**Brief description of interface 1**

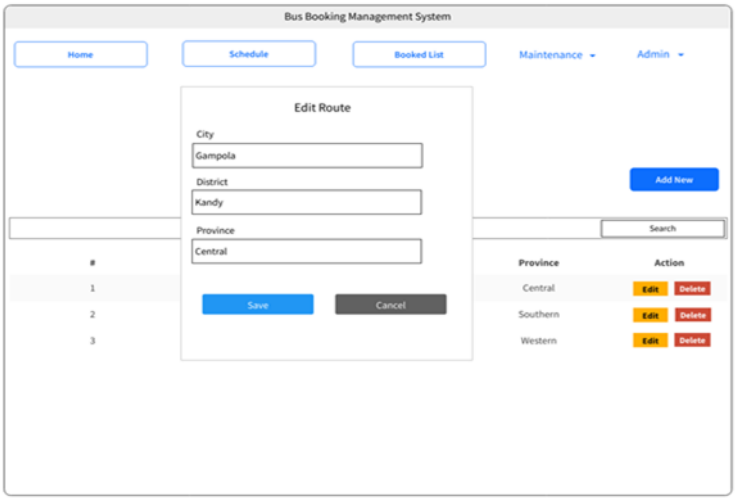
Sprint 1		**Purpose** : This interface will be used to add new routes to the system. **Flow**: Initially, the user is required to enter the name of city, district, and province. After entering the required values, user needs to click on the 'save' button to save the entered data. If the user needs to exit the menu without entering any data, he can click on the 'cancel' button. **Good practices**: ▪ This interface was designed by focusing on one specific task, which is the addition of adding the routes. ▪ The labels were given meaningful names, and the first letter of each word was capitalized, in addition, it was made sure that there are no spelling mistakes. ▪ Ensure that the users do not have to think or work too hard for enter the values.
	Picture of interface 2	**Brief description of interface 2**

<table>
<tr>
<td></td>
<td> 
</td>
<td>Purpose : This interface will be used to display the routes by list and search the routes.

Flow: User wants to get any specific data then he can search the data by ID or name.

Good practices:
▪ This interface was designed by focusing on one specific task, which is the addition of searching the routes.

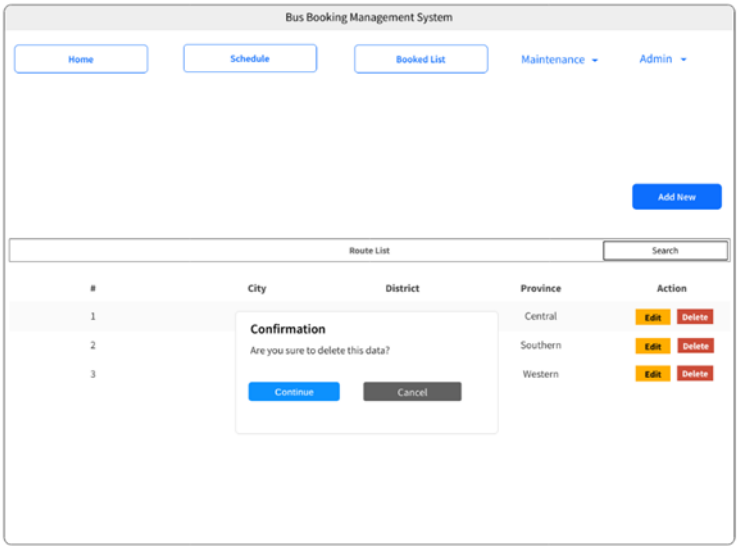
▪ In the search operation, user can search by id or name (when user have start typing, system listing that names by order of the letters). So, user feels easy to search.

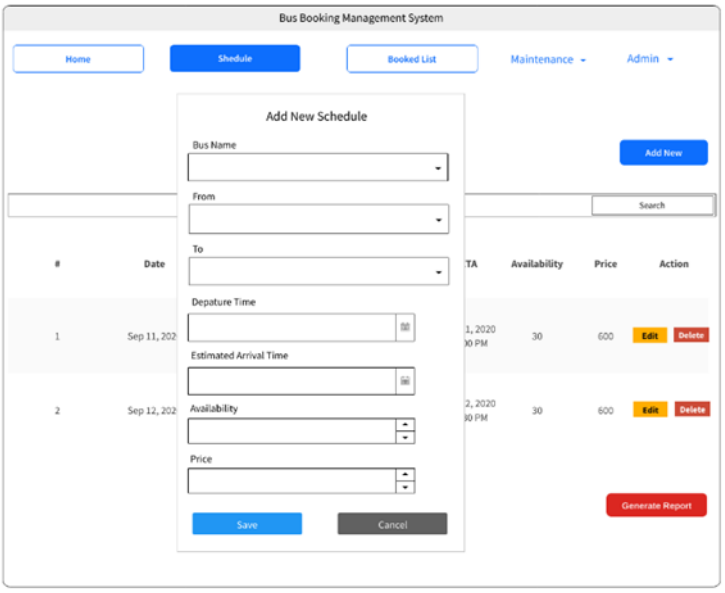
▪ Keep the interfaces simple. An interface should not contain irrelevant information.</td>
</tr>
<tr>
<td></td>
<td>Picture of interface 3</td>
<td>Brief description of interface 3</td>
</tr>
<tr>
<td></td>
<td> 
</td>
<td>Purpose : This interface will be used to edit the routes in the system.

Flow: If the user needs to edit any value, then click the ‘edit’ button and do the changes which they want, after click on the ‘save’ button for update.

Good practices:
▪ This interface was designed by focusing on one specific task, which is the addition of edit the routes.

▪ Users do not have to think or work too hard to use an interface.</td>
</tr>
</table>

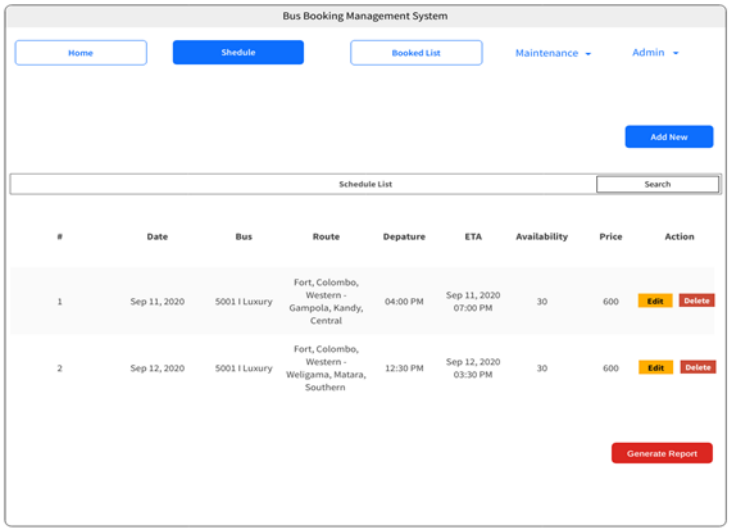
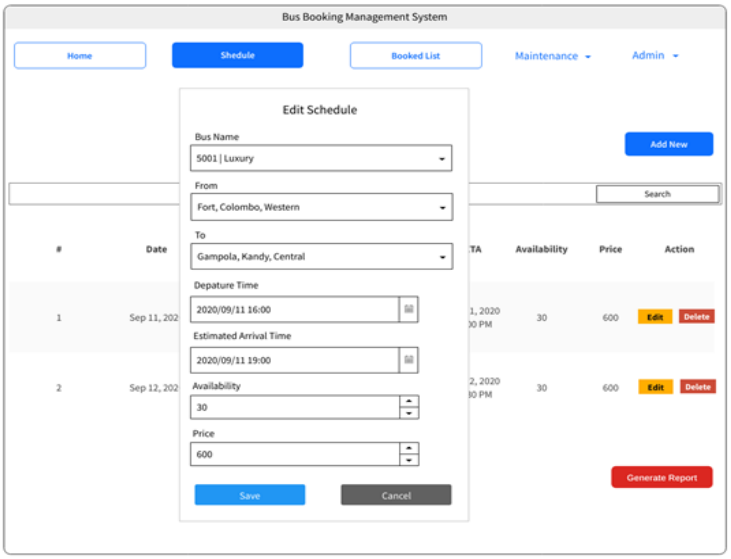
		▪ Interactive components that are large enough.
	Picture of interface 4	**Brief description of interface 4**
		**Purpose** : This interface will be used to delete the routes. **Flow**: If the user wants to delete any value, then he needs to click on the 'delete' button. After system asks confirmation and user is required to click on the 'continue button' for delete the value. **Good practices**: ▪ This interface was designed by focusing on one specific task, which is the addition of delete the route. ▪ When the user clicks the 'delete' button, system asks confirmation for delete that value. This option is important for preventing accidental deletion of data. ▪ Used words that are easy to read and understand, without using complex or system-oriented words.
	Picture of the interface_5	**Brief description of interface_5**

<table>
<tr>
<td rowspan="4">Sprint 2</td>
<td> 
</td>
<td>Purpose : This interface will be used to add new schedules to the system.

Flow: Initially, the user is required to select the bus name, locations, times, available seat count and price. After entering the required values, user needs to click on the ‘save’ button to save the entered data. If the user needs to exit the menu without entering any data, he can click on the ‘cancel’ button.

Good practices:
▪ This interface was designed by focusing on one specific task, which is the addition of adding the schedules.
▪ The labels were given meaningful names, and the first letter of each word was capitalized, in addition, it was made sure that there are no spelling mistakes.
▪ Without asking the users to type in values, they were given the option to choose the bus name, location, time, available seat count and price from the drop-down lists.</td>
</tr>
<tr>
<td>Picture of the interface_6</td>
<td>Brief description of interface_6</td>
</tr>
<tr>
<td></td>
<td>Purpose : This interface will be used to display the schedules by list, search the schedules and generate a report.

Flow: User wants to get any specific data then he can search the data by ID or name. Also, user can generate a report by click on the ‘Generate Report’ button.</td>
</tr>
</table>

<table>
<tr>
<td rowspan="4"></td>
<td> 
</td>
<td>Good practices:
▪ Components used in the interface (buttons, labels, etc.) are large enough to interact.
▪ In the search operation, user can search by id or name (when user have start typing, system listing that names by order of the letters). So, user feels easy to search.
▪ Ensure that the users do not have to think or work too hard to use an interface.</td>
</tr>
<tr>
<td>Picture of the interface_7</td>
<td>Brief description of interface_7</td>
</tr>
<tr>
<td> 
</td>
<td>Purpose : This interface will be used to edit the schedules in the system.

Flow: If the user needs to edit any value, then click the ‘edit’ button and do the changes which they want, after click on the ‘save’ button for update.

Good practices:
▪ This interface was designed by focusing on one specific task, which is the addition of edit the schedule.
▪ Without asking the users to type in values, they were given the option to choose from the drop-down lists.
▪ Fill the date and time from the date picker.</td>
</tr>
<tr>
<td>Picture of the interface_8</td>
<td>Brief description of interface_8</td>
</tr>
</table>

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	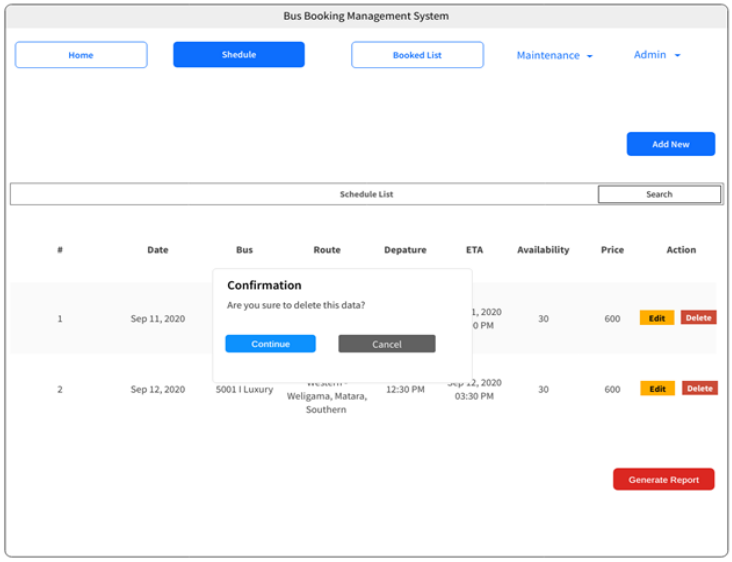	**Purpose** : This interface will be used to delete the schedules. **Flow**: If the user wants to delete any value, then he needs to click on the 'delete' button. After system asks confirmation and user is required to click on the 'continue button' for delete the value. **Good practices**: ▪ This interface was designed by focusing on one specific task, which is the addition of delete the schedule. ▪ When the user clicks the 'delete' button, system asks confirmation for delete that value. This option is important for preventing accidental deletion of data. ▪ Used words that are easy to read and understand, without using complex or system-oriented words.
Registration No	**IT20195366**	
Student Name	**Prasad Dananjaya Wilagama**	
Function(s) **Note**: Include the functions required to complete for **sprint 1** & **sprint 2**	**<u>Sprint 1</u>** • **Implementing the features related to Bus Details System** • **Create Part of the Bus Details System** • **Update Part of the Bus Details System** • **View Part of that System of the Bus Details System** • **Delete part of the Bus Details System** **<u>Sprint 2</u>** • **Implementing the features related to Bus Booking System** • **Crete Part of the Booking System** • **Update Part of the Booking System** • **View Part of the Booking System** • **Delete part of the Bus Booking System** • **Search Function** • **Report Generating Part**	

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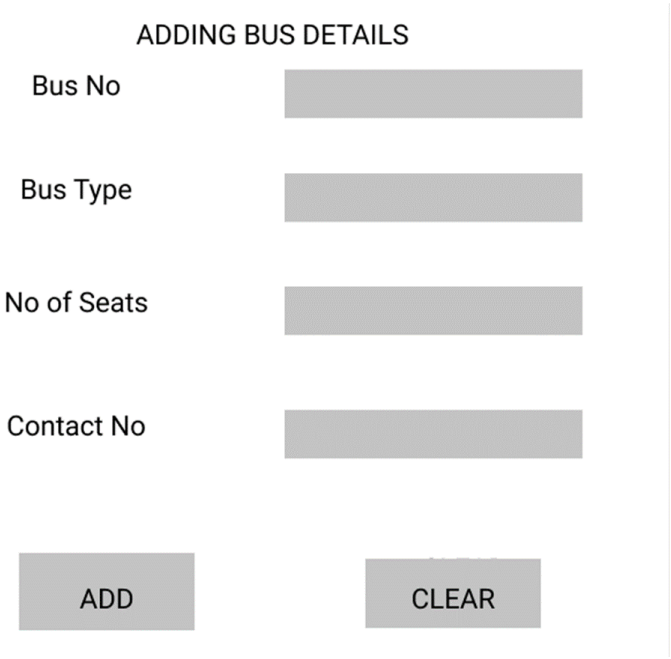
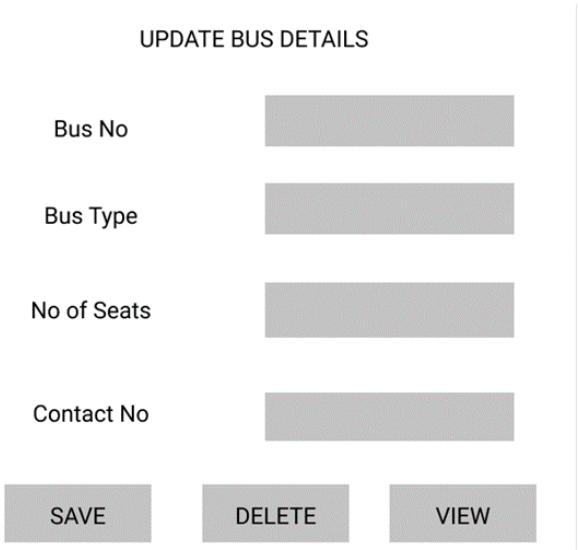
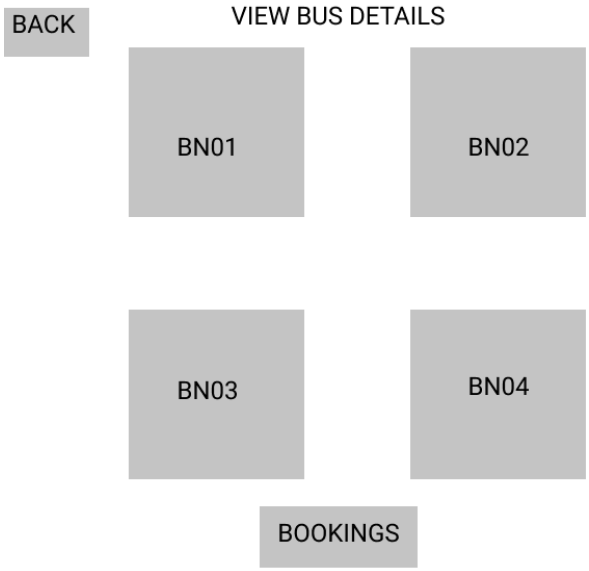
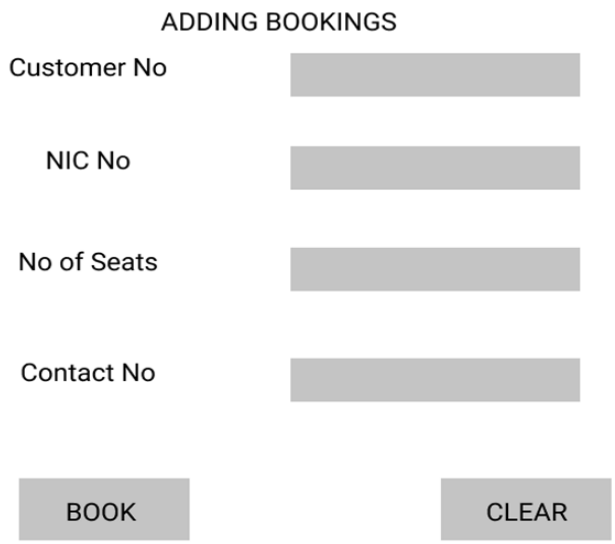
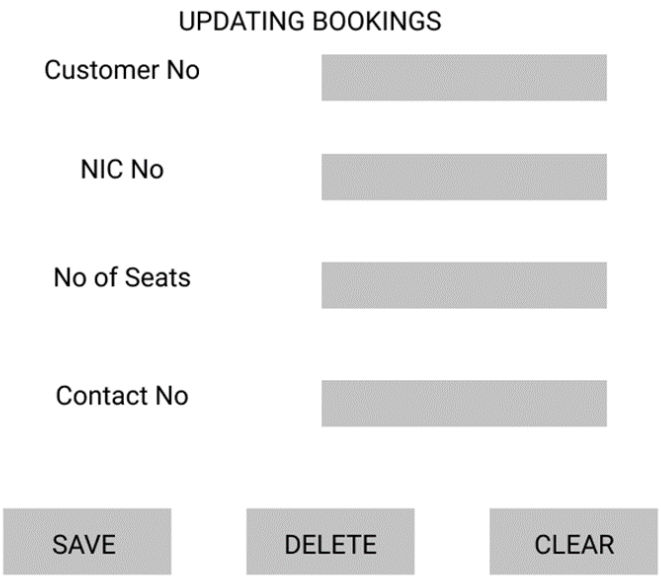
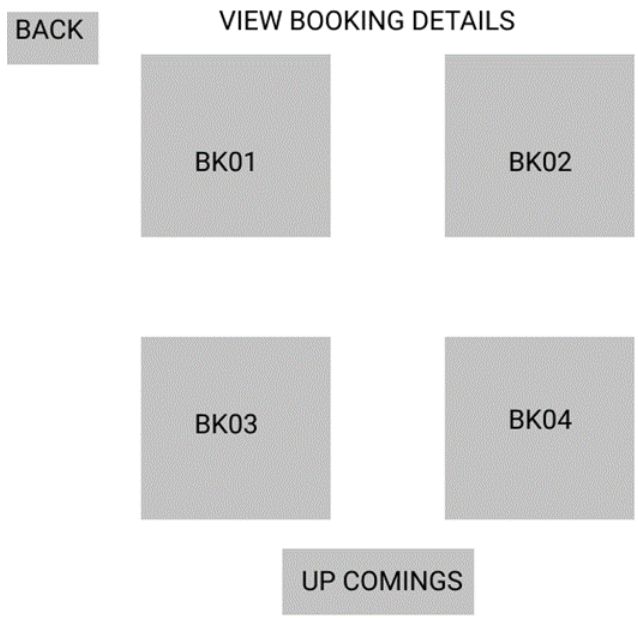
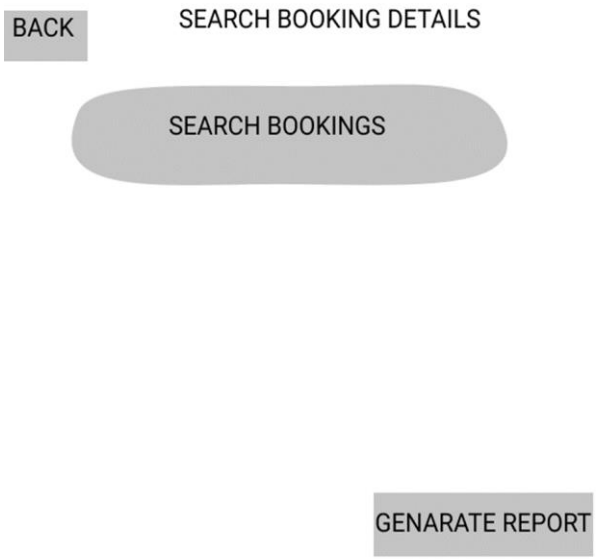
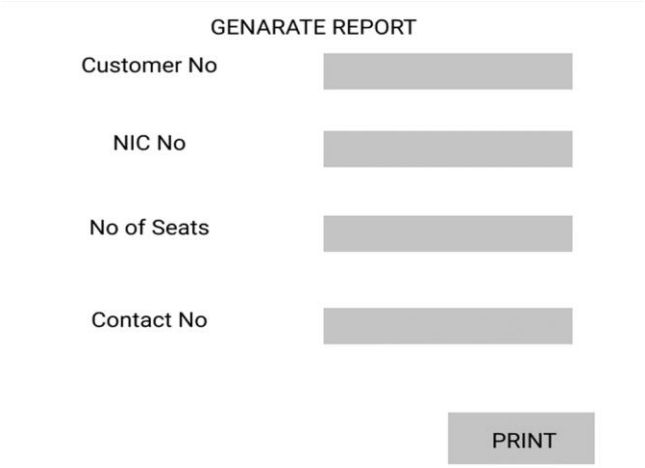
IT3040 – ITPM **Semester 1**

	Picture of interface 1	Brief description of interface 1
Sprint 1		**Purpose**: This interface will be used to adding bus details **Flow**: Initially adding the bus details like bus no, type, no of seats and the contact no. As well as we want to clear we can clear using clear button. **Good practices**: ▪ Bus type and No of Seats can be select via drop down list ▪ The labels were given meaningful names there are no ore spelling errors. ▪ I have made my interfaces simpler from that user can have better understanding to use those things in more proper manner.

	Picture of interface 2	Brief description of interface 2
		**Purpose**: This interface will be used to update existing bus details **Flow**: This is the step we can update the above bus details. After updating it will show the update successfully message and we can view the above update information. **Good practices**: ▪ All the information will be saved in this interface ▪ I have made my interfaces simpler among that user can use the system very simply ▪ I have provided meaningful popup messages
	Picture of interface 3	**Brief description of interface 3**
		**Purpose** : This interface will be used to see the details of buses **Flow**: In this phase we can see the bookings of the buses and view how many bookings and booking details. **Good practices**: ▪ By pressing those we can see the bus details ▪ I have used less words to find details. ▪ Didn't include any irrelevant information.

	Picture of interface 4	Brief description of interface 4
		**Purpose**: This interface will be used to add bookings **Flow**: Customer can add bookings to the system. As well as he/she can clear with it. If the customer presses the BOOK button customer can book their needs **Good practices**: ▪ No of Seats can be select via drop down list ▪ I have used common names for the labels starts with Capital letters ▪ I have provided meaningful popup messages
Sprint 2	**Picture of the interface_5**	**Brief description of interface_5**
		**Purpose**: This interface will be used to update bookings when the bookings are changed **Flow**: When customer wants to update in this phase customer can do that part as well as customer can delete their bookings. **Good practices**: ▪ When user delete some details as soon as it will be update in the table. ▪ I have made my interfaces simpler among that user can use the system very simply ▪ I have provided meaningful popup messages

	Picture of the interface_6	Brief description of interface_6
		**Purpose** : This interface will be used to view the booking details **Flow**: Customer can view the full details report of bookings. **Good practices**: ▪ When we are pressing the bookings, we can see the details of the booking. ▪ I have used less words to find relevant details. ▪ Interfaces are much simpler and easy to understand.
	Picture of the interface_7	**Brief description of interface_7**
		**Purpose** : This interface will be used to search about the bookings. **Flow**: customer can search the bookings as well as request some report thought the option given in the below by clicking 'GENARATE REPORT' **Good practices**: ▪ When we are typing one letter in the search bar it shows the suggestions of above results. ▪ By given the customer no easily search what we are want. ▪ Interface is much simpler to understand

	Picture of the interface_8	Brief description of interface_8
		**Purpose**: This interface will be used to generate the detailed report. **Flow**: By Clicking the 'PRINT' button can get a fully detailed report after that we can download as we wish. **Good practices**: ▪ When we are clicking the 'PRINT' button we can download the report ▪ Keep the interfaces simpler with relevant information ▪ Used word they are easy to understand