DESIGN PHASE

The design phase of our web application gives the detail of

- Navigation flow,
- Page layout and
- Database design**.**

Development Cycle:

The development cycle of our project 'Online Bus Booking Management System' is based on the agile model. In agile model the development and testing are done in parallel each phase of the project.

User Interface Design

USER STORIES	FUNCTIONALITY	DESCRIPTION	PRIORITY
US1.1.A	Proxy Test	Enter the URL in the browser.	3
US 2.1.A	Home page	Home page will have the link buttons to other web pages.	2
US 3.1.A	Login	Login pages validates the credentials given by the user.	1
US 4.1.A	Payment	Payment page helps client to make payment of the bus booking.	1
US 5.1.A	Extra Ticketing	Request the administrator to allocate extra seats.	2
US 6.1.A	Database Design	It shows the tables and the attributes of each table.	1

US 1.1.A Proxy Test:

In Proxy test the URL link specified opens the main page of the website**.**

US 2.1.A Home page:

Home page has link buttons to other navigable pages such has login, register, about us page etc. It has the description about our website with a background image and contact details.

US 3.1.A Login:

USER STORIES	FUNCTIONALITY	DESCRIPTION
US 3.2.A	Username	The username will be a text field that accepts alphanumeric characters from the user.

US 3.3.A	Password	The password will be a password field that accepts alphanumeric, special characters from the user and it is invisible when entered.
US 3.4.A	Register	If the current user is new to our service he/she will register with their first name, last name, phone number, address and email.
US 3.5.A	Invalid username & password	If the user enters invalid username or password on clicking login button it shows a pop-up about the error.
US 3.6.A	Validating the details entered while registration	If the user enters invalid first name or last name or email, signup button shows a pop-up about the error and registration process gets terminated.

US 4.1.A Payment page [Bus Booking]

USER STORIES	FUNCTIONALITY	DESCRIPTION
US 4.2.A	Payment method	It helps the client in choosing a payment method. It is done by selecting a radio button adjacent to specified payment method such as credit card, debit card and internet banking.
US 4.3.A	Card holder's name	It is a text field which asks the user to enter their name as it is on the card.
US 4.4.A	Card number	It is a text field which takes the credit/debit card number.
US 4.5.A	Payment review	It shows the summary of the booking.
US 4.6.A	Book bus	On clicking the book bus button the booking order will be submitted to the server database.

US 5.1.A Extra Ticketing

USER STORIES	FUNCTIONALITY	DESCRIPTION
US 5.2.A	Route Name	It is a text field which asks the staff member to enter the route number.
US 5.3.A	Date	It is a drop down list field which asks the staff member to select the desired date.
US 5.4 .A	Required Seats	It is a text field which asks the user to enter required number of seats.

Database Design

US 6.1.A Database Design

USER STORIES	TABLES	DESCRIPTION
US 6.2.A	LOGIN	In login table it consists the attributes of username and password. The table values will be updated whenever the user changes his/her credentials
US 6.3.A	BRANCH	This table consists of attributes such as Branch Name, Branch ID. These values can be edited and updated.
US 6.4.A	SERVICE	This table consists of attributes such as Service Number Route Name, Vehicle Number, and Date.
US 6.5.A	VEHICLE	This tables consists of attributes Vehicle Number, Vehicle Name, and Vehicle ID.