**DESIGN PHASE**

The design phase of our web application gives the detail of

* Navigation flow
* Page layout
* Database design

**Development Cycle:**The development cycle of our website ‘UltraBus reservation Management Syatem’ is based on agile model. In agile model the development and testing are done in parallel each phase of the  
project.

**User Interface Design**

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| --- | --- | --- | --- |
| USER STORIES | FUNCTIONALITY | DESCRIPTION | PRIORITY |
| 1.1 | Proxy Test | Enter URL in the browser. | 3 |
| 2.1 | Home page/Reservation | Home page will have the link buttons to other web pages. | 2 |
| 3.1 | Login/Register | Login pages validates the credentials given by the user. | 1 |
| 4.1 | Payment | Payment page helps client to make payment of the bus booking. | 1 |
| 5.1 | Database Design | It shows the tables and the attributes of each table. | 1 |

**1.1 Proxy Test:**In Proxy test the URL link specified opens the main page of the website**.  
2.1 Home page:**Home page has link buttons to other navigable pages such has login, register, FAQ and Contacypage etc.  
It has the description about our website with a background image and contact details.

**US 3.1.A Login:**

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

|  |  |  |
| --- | --- | --- |
| 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. |
| 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. |
| 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. |
| 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]**

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| USER STORIES | FUNCTIONALITY | DESCRIPTION |
| 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. |
| 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. |
| 4.4.A | Card number | It is a text field which takes the credit/debit card number. |
| 4.5.A | Payment review | It shows the summary of the booking. |
| 4.6.A | Book bus | On clicking the book bus button the booking order will be submitted to the server database. |

**Database Design  
US 6.1.A Database Design**

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| --- | --- | --- |
| USER STORIES | TABLES | DESCRIPTION |
| 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 |
| 6.3.A | BRANCH | This table consists of attributes such as Branch Name, Branch ID. These values can be edited and updated. |
| 6.4.A | SERVICE | This table consists of attributes such as Service Number Route Name, Vehicle Number, and Date. |
| 6.5.A | VEHICLE | This tables consists of attributes Vehicle Number, Vehicle Name, and Vehicle ID. |