**Introduction:**

This project is called airline reservation system. The scope of this project is not too wide. It is comprised of a system that demands signup/login and take you to the flight booking process. In that process, it asks you your desired destination and provide other options etc. You can select your own choice of airline as well. After demanding CVS and ATM card number, it finally prints the information and provides you the option of logging out.

**Architectural Diagram**

**Client-server Architecture**

Data Server

Booking and Payment history

User server

User details

Flight server

Flight Schedule

INTERNET

Client 3

Client 2

Client 1

Our project, which is web-based airline reservation system is an example of client-server architecture.

Users access the website through a network and select a service and wait for a response to their request. Each service is separate. The system and its services can be accessed using a web browser.

Example - a user accesses the website and after registering and logging in, wants to book a flight. The user is then directed to the flight booking page where they can enter their details and then are shown the available flight to book, after booking they are offered payment options and then given a bill with their details. In this way, a client access a service from the internet.

**Final Sprint Backlog**

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| --- | --- | --- | --- |
| Sprint-User story | Tasks | Success criteria | Status |
| Sprint 1:  As a traveler , I want to be able to register myself so I can access the system | Making the login page | A page opens which allows the user to enter their details | Completed |
| Saving details of user | If cnic doesn’t match with any cnic in db, will be directed to login page | Incomplete and moved to sprint 2 |
| Making the home page | A page which shows the options of registration and login. | Completed |
| Making the logout page | A page which shows the message that user has logged out. | Completed |
| Testing the login page | Page works successfully and each button clicked on page goes to next page. | UI fields not tested |

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| --- | --- | --- | --- |
| Sprint 2:  As a traveler , I want to login myself to book or reserve tickets for a suitable flight, pre-book food options and get my ticket by email so that I can book everything on time. | Making the flight schedule page | A page opens which allows the user to view flight schedule | Completed |
| Saving details of user | Redirected to payment details page. | Incomplete and moved to sprint 3 |
| Making the flight options for the customer | A page which shows the option of flight type. | Completed |
| Testing the pages | Page works successfully and each button clicked on page goes to next page. | UI fields not tested properly. Message for invalid input not shown |

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| --- | --- | --- | --- |
| Sprint 3:  As a traveler I should be redirected to payment page if flights are available for particular route. | Making the invoice page | A page opens which shows the user their selected flight details and total bill. | Completed |
| Saving details of user | A message appears that says “Details saved successfully” | Completed |
| Making the flight schedule | A page which shows available flights for selected countries | Completed |
| Testing the pages | Flight schedule page successfully returns searched flight.  Invoice page successfully shows Bill of user | Completed |

**Sprint 01:**

A screenshot of a computer

Description automatically generated with medium confidence

**Sprint 02:**

Graphical user interface, application

Description automatically generated

**Sprint 03:**

Graphical user interface, application

Description automatically generated