



IT314 – Software Engineering
G27 Flight Booking System
Incomplete/ Unimplemented Features and
Requirements

Sprint Wise Completion Status

Sprint 1: User Registration & Authentication

Status: Completed

Details:

All implementations for user registration, login, session management, and profile management have been successfully completed.

The database setup for user management has been established, and testing has been conducted for authentication and profile management.

Sprint 2: Flight Search & Filtering

Status: Completed

Details:

The flight search functionality and filters have been fully implemented.

The search and filter forms were designed, and the flight results UI with sorting options was developed.

All relevant API endpoints were created, and filtering and sorting logic was implemented and tested for performance.

Since all the API for real time flights were paid, we had to use a dataset for flights.

Sprint 3: Flight Booking & Payment Integration

Status: Partially Completed

Details:

The booking flow, UI for selecting flights and add-ons, seat selection, and the receipt page have been developed.

The payment page UI was implemented with the capability to accept various payment methods, including card and UPI.

However, the integration with a payment gateway was not completed.

The system will only proceed with accurate payment details, using a dummy page as a placeholder until the payment gateway is integrated.

Sprint 4: Admin Panel & User Management

Status: Incomplete

Details:

The admin panel for managing flights, promotions, and users, including features such as role-based authentication, flight management, and promotion handling, was not implemented.

Due to time constraints, focus was prioritized on completing core functionalities for the website, and the admin panel remains incomplete.

Sprint 5: Loyalty Program & Customer Service

Status: Incomplete

Details:

The loyalty program (points system and redemption) and customer service features (chat and email contact) were not implemented.

Due to time constraints and prioritization of core development tasks, this sprint's features were not completed.

Testing Notes

We can see from all these Load tests that our system begins to crash when around 200-250 users access the site in a very short amount of time.

Hence we weren't able to make the system as scalable as we wanted it to be.

We had use Ecmascript modules i.e. ES6 modules in our code which turned out to be incompatible with a lot of dependencies.

Due to this, we had to spend a lot of time on finding the right set of testing tools which when figured was too late and hence we could not complete the unit testing of the frontend part.

Ultimately we opted to use Jest and MongoMemoryServer for our testing.