

# **Development of FlyAway Booking Web Application**

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## **GIT URL :**

The progress of the project is hosted at github repository below:

<https://github.com/bujikun/java-fsd-newtonbujiku-bujikun-vodacom.co.tz>

Under the Phase 2 directory

## **SPECIFICATION**

This is Jakarta EE web application through which a user can make a booking for a flight. Admin manages the backend doing this like adding airlines and flights.

## **TECHNOLOGIES & CONCEPTS**

This application uses the following concepts and technologies

- Java 17
- Hibernate 6
- Jakarta EE 10
- Tomcat Application Server 10
- Lombok
- Bootstrap 5
- JQuery
- MySQL
- Maven
- IntelliJ Idea
- Git & Github
- Agile Scrum Framework

For Java concepts in the project: The application requires JDK 17 & Tomcat 10

It uses concepts such as Servlet API, SQL etc.

## **PROJECT IMPLEMENTATION**

The project was completed in 2 sprints:

### **Sprint 1**

The following were achieved in this designing sprint:

- Determining Java concepts to be used
- Choosing database technology and build tools
- Defining project scope and structure
- Preparing remote repository
- Sprint planning and review

### **Sprint 2**

The following were done in this sprint including scrum ceremonies and user stories:

- Sprint Planning
- Passenger ability to search available flights depending on date and source and destination
- Passenger ability to view available flights depending on search parameters
- Passenger ability to register for a flight
- Ability to make payment via a payment gateway
- Ability to view booking details after making payment
- User can search for booking details by using booking number
- Admin can login into the admin portal
- All admin functions via url paths are restricted to authenticated users
- Admin can view and add airlines
- Admin can view and add places
- Admin can view and add flights
- Admin can view passengers
- Admin can view passenger bookings
- Admin can change password

**How run the program.**

1. Download Tomcat 10
2. Open the project in IntelliJ J/Eclipse
3. Deploy the application in the Tomcat server
4. Open the browser with the context URL

**The screenshot.pdf** file has all the screenshots depicting the execution of the application step by step.