# Design Document for FlyAway(An Airline Booking Portal)

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# Problem Statement

To develop a ticket-booking portal that lets people book flights on their website.

# Website Requirement:

The website shall be able to do the following. It should show a home page with links to:

1. Login as Admin and existing user.
2. A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
3. Based on the travel details entered, it will show the available flights with their ticket prices.
4. Once a person selects a flight to book, they will be taken to a register page where they must fill in their personal details.
5. They are shown the flight details of the flight that they are booking, and the payment is done via a dummy payment gateway. On completion of the payment, they are shown a confirmation page with the details of the booking.

# Sprints planned

## Sprint 1: Documentation Phase

Duration: 1 Week

Target: To prepare the design document and capture all the requirements.

## Sprint 2: Coding Phase

Duration: 1 Week

Target: Write the website code covering all the requirements.

## Sprint 3: Testing Phase

Duration: 1 Week

Target: Testing and bug fixing.

# User Interactions

The website will open with a homepage having links to login and booking flights ticket.

# Programming Language Used:

Front-end : HTML

Back-end : Java,JSP,JSTL

Server:

Tomcat Apache v8.5

# Java Concepts Used

* Servelets
* JDBC
* JSP
* JSTL

## Java Packages

* Java.io.package
* Java.util.package
* java.io.PrintWriter
* java.sql.Connection
* java.sql.DriverManager
* java.sql.PreparedStatement
* java.sql.ResultSet
* java.sql.SQLException
* java.util.Array
* javax.servlet.ServletException
* javax.servlet.annotation.WebServlet
* javax.servlet.http.HttpServlet
* javax.servlet.http.HttpServletRequest
* javax.servlet.http.HttpServletResponse

## Exception handling

Exception handling using try – catch blocks:

* + SQLException – To handle SQL query.
  + NULLPOINTERException – To handle null values

# GitHub:

The project is uploaded to my GitHub account.

<https://github.com/pooja-dev-fsd/virtualkeyrepository>