**Flyaway**

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# Application Objectives

User:

This application created user to search flights by entering information from where they depart and where they going to. Based on the information user entered, the application show the available flights and allow user to book flights. Also user must login into the application to book flights. If user don’t have account, the application ask user to sign up.

Admin:

The application also designed admin to log in into their admin account which created with MySQL table creation. Once the admin login, it will show them admin dashboard which can add flights detail, change password and logout

## Application GitHub Link

* Application created using IntelliJ IDE
* Application pushed to my GitHub account NatnaelBahta. The link attached here.

[**https://github.com/NatnaelBahta/virtual-key-fro-your-repositories.git**](https://github.com/NatnaelBahta/virtual-key-fro-your-repositories.git)

### Sprint Planning of Application

This application intended to be completed in Three sprint.

**Sprint 1**

* Create specification document
* Setup Git and GitHub account to save and track my application
* Create Flow Chart and analysis of technical requirements of the application
* Create new project on Intellij IDE
* Create application Frontend JSP pages using HTML and CSS
* Test all GUI pages functionality and fix some issues found during test.

**Sprint 2**

* Create Backend Java servlet classes and implement post and get method.
* Create Backed java pojo classes for Flights and User to insert and retrieve data from database
* Download MySQL database, drivers and install to my machine.
* Create flyaway database and 3 tables (admin,user,and,flights )
* Create Doa java class to connect MySQL database.

**Sprint 3**

* Write methods in Dao java class to insert and retrieve data to database and validate user
* Create SQL queries to populate the table and test the application functionality
* Test application functionality with different input and improve performance
* Refactor, comment, and fix source code for a good readability and understanding
* Add application source code and all necessary folders into GitHub repository
* Push applicating all documents and make it available the link for submission

#### Core Concept of Application

This application core concept are to teach us how to create responsive web application from scratch

and deliver it successfully. In the process of application creation, many Frontends and Backend

concepts are covered, such as creating responsive pages using HTML and CSS, writing java

code inside Jsp with scriptlet tag, creating java Servlet classes and implement business logic of the

application, and write methods inside Doa class to insert and retrieve data. Another core concept of

this application are how to create java servlets, searching, exception, loop, method call,

documentation, and organizing source code and deliver it using GitHub repository.

##### Algorithm of Application

Searching and sorting algorithms are used in this application

###### FlowChart of Application

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