**Vision Document for Flight Booking System (FBS)**

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**1. Introduction**

We are going to design and implement an online Flight Booking System (FBS) project. This is an engineering proof of concept. The goal is to develop a functional web application, by using all the Technology’s we learned in our previous courses and by using the best practices of Software Engineering.

**2. Position**

**2.1 Problem Statement**

An Online FBS is a web application which aims to provide users the ability to view and make a ticket booking for a flight online, Once the booking is successfully booked, the user will receive a confirmation code [auto generated by the system]. The user then can use this code to view their booking information at any time by providing the system the confirmation code for security check.

The system also provides back-office features for system administration purpose. These features are provided for authorized persons only, who have to provide username and password for authentication & authorization at the first time accessing the system

**2.2 Product Position Statement**

A Flight Booking System web application is designed and implemented for a Traveling company X in Atlanta, Georgia. The company has a worldwide target customer who uses this application and make a flight reservation, after the project completion the app will have the following functionality, the user will have the ability to view scheduled flights and to book a ticket for a selected flight, also users may have a functionality to call for a support from system supporter, if time allow we might add some extra futures.

**3. Stakeholder Descriptions**

**3.1 Stakeholder Summary**

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Admins | admins can delete a booking, edit a booking, planning a flight, edit a flight, delete a flight | admins are responsible for planning all flight for an airplane towards an airport |
| Passengers | passengers can do a booking, verify the flights available and checks the booking | passengers are responsibilities to booking to a flight for an airplane they want to travel. |
| developers | developers develop a system on the basis of given document | developers are responsible for the design and implement system feature, receive all feedback and then for fixing the bug. They must maintain the system availability. |
| testers | Tester use jUnit tool to test system or integration | Testers are responsible for integration testing. |

**3.2 User Environment**

*[Detail the working environment of the target user. Here are some suggestions:*

*Number of people involved in completing the task? Is this changing?*

*How long is a task cycle? Amount of time spent in each activity? Is this changing?*

*Any unique environmental constraints: mobile, outdoors, in-flight, and so on?*

*Which system platforms are in use today? Future platforms?*

*What other applications are in use? Does your application need to integrate with them?*

*This is where extracts from the Business Model could be included to outline the task and roles involved,*

*and so on.]*

**4. Product Overview**

**4.1 Product Perspective**

The released app will be a self-sufficient and completely dependent on itself to carry out all the highlighted functionality. It will have all the features mentioned above, in addition the system will provide a customer friendly user interface for fast flight reservation and completion within a reduced time frame.

**4.2 Assumptions and Dependencies**

we have made the following assumption

Customer registration - The project will not allow customer registration

Promotion - The project will not provide promotion functionality

Multiple customer online support - The project will not support for multiple user online support at the same time

Payment - The project will not support payment functionality

**4.3 Needs and Features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Problem | Need | Priority | Features | Planned Release |
| Admin | | | | | |
|  | Create and Update Airline, Airport and Airplane |  |  | The system should provide administrator the ability to add new or update existing Airline, Airport and Airplane |  |
|  | Schedule new flight |  |  | The system should provide administrator the ability to schedule for a new flight |  |
|  | Update schedule of existing flights |  |  | The system should provide administrator the ability to update the schedule of existing flight |  |
|  | Online chat to support user |  |  | The system should provide administrator the function that they can online chat to support user when necessary |  |
| User | | | | | |
|  | The ability to View scheduled flights |  |  | The system should present to the user scheduled flight in the system. So, the user can select for booking a ticket |  |
|  | The ability to book a ticket for a selected flight |  |  | The system should allow user to book ticket for a flight when selected |  |
|  | The ability to call for support from system supporter |  |  | The should provide user a function that allows user to call for support from system supporter when necessary |  |

**4.4 Alternatives and Competition**

*[Identify alternatives the stakeholder perceives as available. These can include buying a competitor’s*

*product, building a homegrown solution, or simply maintaining the status quo. List any known competitive*

*choices that exist or may become available. Include the major strengths and weaknesses of each competitor*

*as perceived by the stakeholder or end user.]*

**5. Other Product Requirements**

*[At a high level, list applicable standards, hardware, or platform requirements; performance requirements;*

*and environmental requirements.*

*Define the quality ranges for performance, robustness, fault tolerance, usability, and similar*

*characteristics that are not captured in the Feature Set.*

*Note any design constraints, external constraints, or other dependencies.*

*Define any specific documentation requirements, including user manuals, online help, installation,*

*labeling, and packaging requirements.*

*Define the priority of these other product requirements. Include, if useful, attributes such as stability,*

*benefit, effort, and risk.]*