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

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# Introduction

An airline ticket was a document back in centuries it might be a paper ticket or coupons or vouchers. Tickets are required as a proof to get the boarding pass at the airport, which is needed to board the aircraft. The traditional tickets on the early days of air travel were made of paper and were to be collected from the travel agencies or airline office after purchasing.

Nowadays airlines industry has evolved into one of the most sophisticated and fascinating industries. Today, millions of people fly every day. This has strengthened not only the economies of places but also connected people and cultures.

The Advanced technologies which is web base has brought big progress in the system of flight booking over the years. Due to these technologies the online air flight ticket booking alleviates complex process to get the flight ticket. Decreasing number of people are now using the traditional paper ticket while almost all major airlines have given the possibility of online tickets, commonly known as e-ticket. A ticket today contains the information of the passenger’s name, date of travel, the flight number, destination and origin of travel, fare, taxes, baggage information, rules on changes and refunds, form of payments and the validity of the ticket.

From the above engineering proof of concept. We decide to work our project on designing and implement online flight booking system application by using all the technology’s, we learned in our previous courses and the best practices of Software Engineering.

# 2. Positioning

## 2.1 Problem Statement

Like we mention in the introduction over the years with the advent of internet, online Flight booking for airline travel has been increasingly popular. In order to have a market share in this booming market a company name X is seeking for an online Flight Booking System, a 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.

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

## 2.2 Product Position Statement

This flight booking system web-based application is designed and implemented for a travelling company Iowa flight which is in Desmoines, Iowa. This 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 has authorized to delete a booking, edit a booking planning a flight, update a flight, remove a flight | Admins are responsible for planning all the flight schedules for an airplane towards an airport |
| Passenger(user) | Passengers can do a booking, verify the flights available and checks the booking | Passengers are responsible and authorized to booking a flight for an airplane they want to travel. |
| Developers | Developers develop a system based on given document | developers are responsible for the design and implement system features, and receive all feedback in order to for fix 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

This web app should 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

Here are our assumptions

Customer registration - The project will not provide customer registration functionality

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 but it depends on how far done the project.

## 4.3 Needs and Features

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Problem** | **Need** | **Priority** | **Features** | **Planned Release** |
| **Admin** | | | | | |
|  | We have a list of Airline, Airport and Airplane to be added in the system | Ability to Create and Update Airline, Airport and Airplane |  | The system should provide administrator the ability to add new or update existing Airline, Airport and Airplane |  |
|  | Every now and then we have some new schedules to be made | Ability to Schedule new flight |  | The system should provide administrator the ability to schedule for a new flight |  |
|  | the need to update schedules when necessary | Update schedule of existing flights |  | The system should provide administrator the ability to update the schedule of existing flight |  |
|  | The need for online customer support | Ability to support customer through online chatting |  | The system should provide administrator the function that they can online chat to support user when necessary |  |
| **User** | | | | | |
|  | The need to view list of available flights | 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 need to make a new reservation | The ability to book a ticket for a selected flight |  | The system should allow user to book ticket for a flight when selected |  |
|  | The need to get online support | 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 |  |

## 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.]*