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

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# 1. Introduction

Airlines industry has evolved into one of the most sophisticated and fascinating industries of today. Airlines industry has made the dream of flying of the humans into a reality in less than a century. Today, millions of people fly every day. This has strengthened not only the economies of places but also connected people and cultures. The advancement of technology has led to big progress in the system of flight booking over the years.

Tickets are the documents that confirm purchase and guarantee a seat on the airplane for the chosen journey. 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.

Along with globalization and the development of aviation industry, the process of ticket purchasing has also changed. Since the rapid growth and use of internet since the 2000s, ticket purchasing has been possible online. 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.

This is an engineering proof of concept. The main goal of this project is to design and implement a working online Flight Booking System (FBS) application. by using all the technology’s, we learned in our previous courses and the best practices of Software Engineering.

# 2. Position

## 2.1 Problem Statement

Over the years with the advent of internet, online Flight booking for airline travel has been increasingly popular. The main focus of traveling agencies and airline companies has been in the satisfaction of customers. The companies are doing this by making journeys possible in a fully mobile and social environment with the intelligent use of vast quantities of data to deliver real service and operational improvements.

Today more people are flying than ever, and easy online ticket purchase system is one of the major contributors in the increase of the passengers using air travel. 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 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 the flight for an airplane towards an airport |
| Passenger | 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 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

## 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.]*