**Software Requirement Specification**

**Airline Management System**

June29,2022

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**1.Introduction**

**1.1Purpose:**

The purpose of this document is to build an online system to manage flights and passengers to ease the flight management.

**1.2Scope of project:**

The purpose of the online flight management system is to ease flight management and to create a convenient and easy-to-use application for passengers, trying to buy airline tickets.

**1.3Overview of Document:**

* Database
* Entity relationship
* Distributed Database

**1.4References:**

<https://krazytech.com/projects>

**2. Overall Description:**

2.1**Product Perspective:**

A distributed airline database system stores the following information.

* Flight details
* Customer description
* Reservation description

**2.2 User class and characteristics**

Users of the system should be able to retrieve flight information between two given cities with the given date/time of travel from the database. The system will support two types of user privileges, Customer, and Employee. Customers will have access to customer functions, and the employees will have access to both customer and flight management functions. The customer should be able to do the following functions:

* Make a new reservation
* One-way
* Cancel an existing reservation

**Customer Functions:**

* Get all customer who have seats reserved on a given fight.
* Get all flights for a given airport.
* View flight schedule.
* Get all flights whose arrival and departure times are on time/delayed

**Administrative**

 Add/Delete a flight  
• Add a new airport  
• Update fare for flights.  
• Add a new flight leg instance.  
• Update departure/arrival times for flight leg instances.

**2.3Operating Environment:**

* Database
* Operating System: Windows
* Database: SQL
* Platform: java/PHP

**3.Requirement specification:**

**3.1 User interfaces:**

Front-end software: vb.net version

Back-end software: SQL

**3.2Hardware interfaces:**

Windows

A browser which supports HTML& Javascript.

**3.3Communicational Requirements:**

This project supports all types of web browsers. We are using simple electronic forms for the reservation forms, ticket booking etc.

**4.Non-functional Requirements**

**4.1Performance Requirements:**

The steps involved to perform the implementation of airline database are created.

**4.2E-R Diagram:**

The E-R Diagram constitutes a technique for representing the logical structure of a database in a pictorial manner. This analysis is then used to organize data as a relation, normalizing relation and finally obtaining a relation database.

* **ENTITIES:**Which specify distinct real-world items in an application.
* **PROPERTIES/ATTRIBUTES:** Which specify properties of an entity and relationships.
* **Relationship:** which connect entities and represent meaningful dependence between them.

Diagram, polygon

Description automatically generated

**4.3Security Requirements:**

security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

Software Quality Attributes:

* **AVAILABILITY:** The flight should be available on the specified date and specified time as many customers are doing advance reservations.
* **CORRECTNESS:** The flight should reach start from correct start terminal and should reach the correct destination.
* **MAINTAINABILITY:** The administrators and flight in chargers should maintain correct schedules of flights.
* **USABILITY:** The flight schedules should satisfy a maximum number of customers needs