
Software Requirements Specification

for

Airline Reservation System

Version 1.0

Prepared by

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20.03.2020

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1. Introduction

The Airline Reservation System project is an implementation of an Airline Ticketing website. In this section you can find general information about the project, such as the purpose and the scope.

1.1. Document Purpose

The main purpose of this document is to list the requirements of the Airline Reservation System project, which helps the customers to search the availability and prices of various airline tickets. It also describes the functionalities, interface and design of the application. The document is intended to be read and approved by the client and used by the development team.

1.2. Product Scope

The Airline Reservation System project is an implementation of a Airline Ticketing website. This project also covers various features like online registration of the users, reports generation, as well as managing all the data.

In general, this website shall be designed to perform like any other airline ticketing website available online.

Subject facet: User Interface, Searching one-way flights, Searching round trip flights, Searching multiple destinations, Flight reservations, Reservation cancellation, Online payment, Request and response for reservation cancellation, Displaying warning messages.

Usage facet: Searching, Sorting of flights, Reservation of tickets, Managing existing reservation, Managing flight details, Keeping the flights up to date.

IT facet: Database, Web-based software system, AAS for logins, Performance maintenance.

Development facet: Internal policy and culture of the airlines company should be taken under consideration.

1.3. Definitions, Acronyms and Abbreviations

Definitions

#	Term	Definition
1	User	Someone who interacts with the web application
2	Admin/Administrator	System administrator who is given specific permission for managing and controlling the system
3	Web-Portal	A web application which present special facilities for the airline company and admin.

4	Stakeholder	Any person who has interaction with the system who is not a developer
5	PLanguage	Planning language. The basic principle is to use a set of closely defined identifiers to describe and quantify specific elements of the requirements
6	GIST	A short, simple description of the concept contained in a PLanguage statement
7	SCALE	The scale of measure used by the requirement contained in a PLanguage statement
8	METER	The process or device used to establish location on a SCALE contained in a PLanguage statement
9	MUST	The minimum level required to avoid failure contained in a PLanguage statement
10	PLAN	The level at which good success can be claimed contained in a PLanguage statement
11	WISH	A desirable level of achievement that may not be attainable through available means contained in a PLanguage statement
12	TAG	A unique, persistent identifier contained in a PLanguage statement

Acronyms

#	Acronym	Meaning
1	ARS	Airline Reservation System
2	AAS	Authentication and Authorization System
3	SQL	Structured Query Language
4	SSL	Secure Sockets Layer
5	IEEE	The Institute of Electrical and Electronics Engineers
6	SRS	Software Requirements Specification
7	CPU	Central Processing Unit
8	OS	Operating System

9	HTTPS	Hypertext Transfer Protocol Secure
10	FTP	File Transfer Protocol
11	TLS	Transport Layer Security
12	SHA2	Secure Hash Algorithm 2

Abbreviation

#	Abbreviation	Meaning
1	RAT	Rational
2	DEP	Dependency
3	DESC	Description

1.4. References

1. IEEE Software Engineering Standards Committee, "IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications", October 20, 1998.
2. http://www.syque.com/quality_tools/tools/Tools104.htm
3. http://micro-os-plus.sourceforge.net/wiki/SRS_Guide

1.5. Overview

This document contains all of the software requirement specifics. It contains a general description of the types of users who will be using our application, how it is going to work, and what technologies we are using to make it work.

The remainder of this document includes two chapters and appendices. The second one provides information about the application functionalities. This chapter also presents different types of stakeholders and constraints.

The third chapter includes detailed description about the requirements specification.