# Software Requirements Specification

## BUS BOOKING SYSTEM

**Version: 1.0**

**CS-254 Design Practices in Computer Science**

**Release Date: 31th JANUARY 2016**

## Table of Contents

1. Introduction 1

1.1 Purpose 1

1.2 Intended Audience 1

1.3 Project Scope 1

1.4 Operating Environment 1

1.5 Design and Implementation Constraints 1

2. System Features 2

2.1 System Features 2

3. External Interface Requirements 3

3.1 User Interfaces 3

3.2 Hardware Interfaces 3

3.3 Software Interfaces 3

3.4 Communications Interfaces 3

4. Other Nonfunctional Requirements 4

5. References 4

# Introduction

## Purpose

This document is designed to present a detailed description to the concept of Bus booking system. This will give the detailed information about the working environment of the portal. This document presents a conceptual overview of the website, and then provides an introduction to its requirements.

## Intended Audience

This document is intended for the developers specifically web developer, project managers, marketing staff, testers, documentation writers, client representative (IT background).

## Project Scope

On existing system work is done manually. Those who are interested in booking and inquiring about Bus type, tickets price, available seat, facility of bus etc. have to walk to the Booking offices.

The new system is helpful for both employees and customers as well. This system provides help to the customers as they can book and inquire about the Bus type, tickets price, available seat, facility, etc. and they won’t need to go to the Booking offices. There is login and password for employee and customer as well to use this system.

## Operating Environment

This web application will run on all the modern web browsers available in the market today including mobile based browsers irrespective of operating system they are using.

## Design and Implementation Constraints

In this system customers are bounded in booking ticket, they can’t book more than five tickets in a Bus.

# System Features

This web application should include the All the members will be notified one week prior to the deadline of unwrapping confession box.

## System Features

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Title of System Featur0e | Description | Priority | Functional Requirements |
| 1 | Home page | It should have a home page so that any person can inquire. | Low | In this feature customer can check the availabity and routes of buses. |
| 2 | Searching | It should have a home page so that any person can search the Bus. | High | This feature check the bus is available or not and notify the customer. |
| 3 | Registration | It will ask for register their self for further use. | High | In this feature it will ask for the name, mobile no, email, gender, password. And it will create a login id for the customer. |
| 4 | Login | It will validate the user by asking user name and password. | High | In this feature it will verify the username and password on the basis of database. After this customer will get access to other features. |
| 5 | Booking | It should have the facility for booking seats in the bus. | High | In this customers are allowed to book seats in the bus after activating their accounts. |
| 6 | Cancel booking | It should have the facility for canceling booked seats in the bus. | High | In this customers are allowed to cancel booked seats. |
| 7 | Manage Booking | It should have the facility to approve the bookings. | High | In this feature, Admin can approve or disapprove the booking. |
| 8 | Update Booking | It should have the facility to update the bus number. | High | In this feature admin can add the new buses, remove the old buses and update the bus timing. |
| 9 | Feedback | It should have the facility to give Feedback. | Low | This feature provides a platform to customer that can give feedback about our facilities. |
| 10 | Forgot Password | It should have the facility to change the password. | High | This feature provides a platform to customer that can change the password. |

# External Interface Requirements

## User Interfaces

* It should always keep users informed about what is going on, through an appropriate feedback within reasonable time.
* It should give proper good error messages.
* It should have proper help document for the new users.

## Hardware Interfaces

This web application will be able to run on all the computer systems and on any mobile phones based browsers irrespective of operating system they are using. The main requirement for accessing this website is the internet connection available in the computer system or mobile phones.

## Software Interfaces

This web application will be able to run on all the modern web browsers available in the market today including mobile based browsers irrespective of operating system they are using but it will restrict some features on old browsers(earlier than IE8).

## Communications Interfaces

1. There will not be multiple customer with the same accounts. At the time of booking they will be notified via SMS.
2. The customers while booking the bus tickets will have to make payment through their Credit/debit card and Net banking.
3. The communication standard that will be used is HTTP, SMTP, and POP.
4. For changing password by customer, this will be using SMS and EMAIL API to send SMS for verifying the user.

# Other Nonfunctional Requirements

|  |  |  |
| --- | --- | --- |
| # | Type of Requirement | Details |
| 1 | Performance Requirements | The average response time for sending SMS and mails into the mail box will be 2 msec. |
| 2 | Scalability Requirements | Approximate number of clients those can access the website simultaneously initially in thousands. |
| 3 | Security Requirements | System should contain all the details of the customers to be in encrypted form, specially the passwords and email IDs. Also the OTP(One Time Password) generated should be system generated so that it will be secured and it will last for maximum 2 minutes. |
| 4 | Availability Requirements | This website will be available 24\*7. Any user can book or cancel tickets at any time either from computer system or by mobile phones. |
| 5 | Training Requirements | A manual regarding creation of user and how to use their username, send mails with subject including a unique key sent to them at the time of creation of user. |

# References

<http://www.useit.com/papers/heuristic/heuristic_list.html>

http://www.w3schools.com/