Software Requirements Specification

Version 1.0

Jan 22, 2016

IIITG Bus Reservation System.

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Submitted in partial fulfillment

Of the requirements of

CS 330 Software Engineering

This work is based upon the submissions of the Winter 2015 CS 330. The students who submitted this projects is Vaibhav Bhuwan.

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# Introduction

* 1. ***Purpose***

The purpose of this document is to present a detailed description of the IIITG Bus Reservation System. . It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate. This document is intended for both the stakeholders and the developers of the system.

* 1. ***Scope of Project***

The software system will be a Bus Reservation System for Indian Institute of Information Technology, Guwahati. This system will help students as well as staff and faculty members of IIITG to see the timing and status of bus and accordingly they can plan their journey. This system will keep records of all the journey history of a user. It will have a relational database system which will keep all the record of user, source station, destination station, mode of payment, email id, phone no, seat no etc.

It will save the time as well as require less maintenance for both users as well as stackholder.

* 1. ***References***

IEEE. *IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications.* IEEE Computer Society, 1998.

* 1. ***Overview of Document***

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

# Overall Desscription

* 1. ***Product prospective***

The IIITG Bus Reservation System project uses the JSP, MySql and is completely independent. The project itself is a bigger product and does not need to be introduced into a larger system. The application would be running on a Windows XP/8/8.1/10, Ubuntu Operating system

* 1. ***Product Features***

The IIITG Reservation System has the following features: This project is mainly intended for two types of audiences. One is the customer or the end user and the other is the administrator of the website. Some of the major functions of the product can be categorized under two different categories that are for the administrator and the user.

* 1. ***Customer / End User Activities***

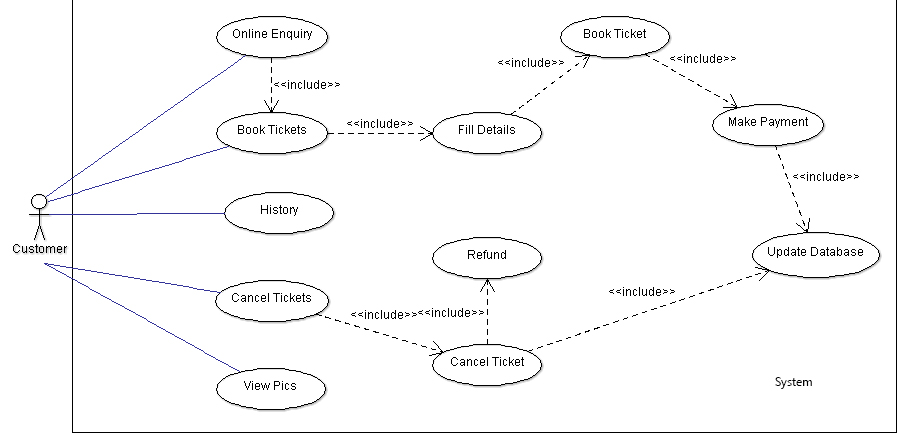


Fig. 1 : Customer Use Case Diagram

The above use case diagram depicts all the functions or activities that a user or a customer can perform on the application. They can be discussed in detail as follows:

**Home Page:** Like all the other Bus reservation websites available online, the user can access the user home page of the IIITG Bus Reservation System website, after he logs into the system. Here, he can look up information regarding buses.

**Login and Register:** The IIITG Bus Reservation System also comes with the customer registration details page, where the customer can enter his details and register. He can also create a username and password.

**Booking Ticketss:** The customer can also search for the buses available and reserve his place on the bus by purchasing a ticket.

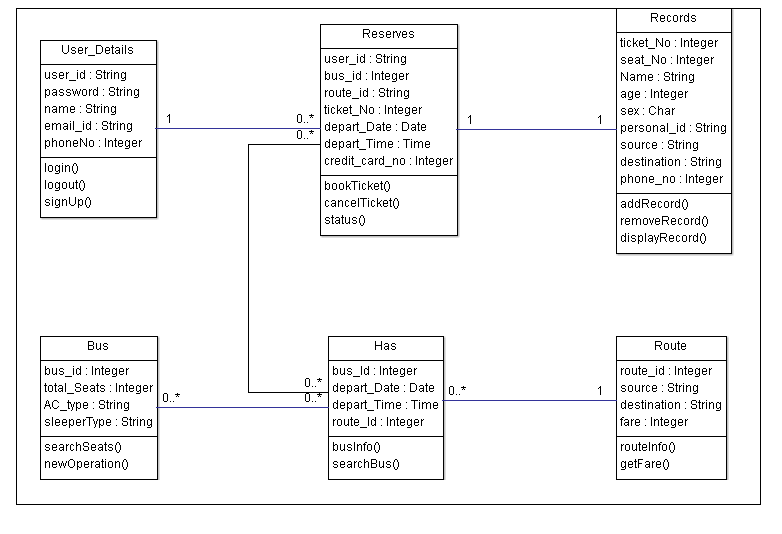


Fig. 2 : Class Diagram

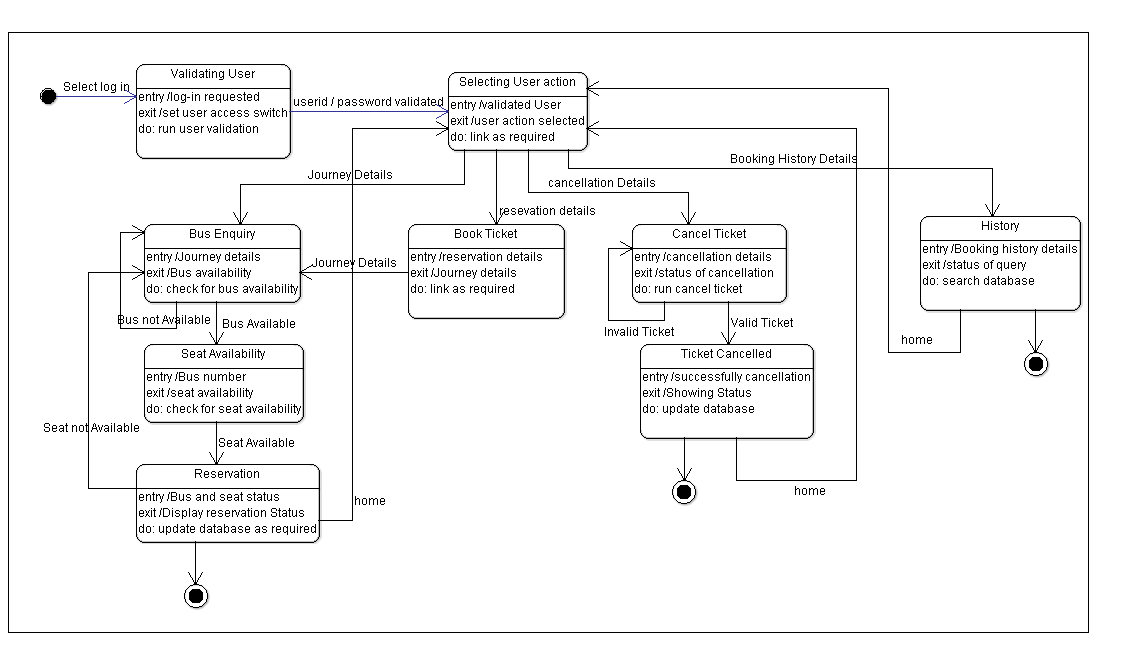


Fig. 3 : State Diagram

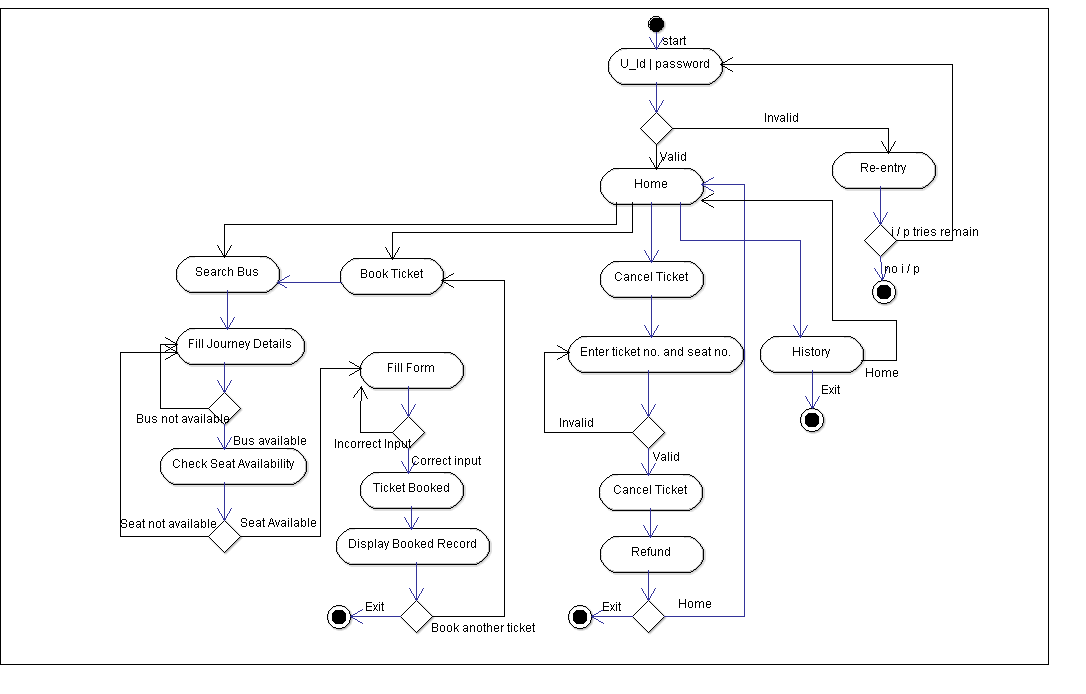


Fig. 4 : Sequence Diagram