Project Report

CALTRAIN RESERVATION SYSTEM

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ACKNOWLEDGEMENTS:

INTRODUCTION

Overview

This report discusses the result of the work done in development of "Caltrain Reservation System" for booking the caltrain ticket on java platform. Caltrain network is a very vast system to be handled manually and its computerization will prove to be of great help to the employees and the passenger. This Software allows user to do a booking for a journey in any train from anywhere to anywhere; handling reservation and cancellation of tickets.

Background and Motivation

Caltrain Reservation is done manually by a user at caltrain reservation counters or need to reload there clipper card whenever it runs of the cash. Users has to wait for a long time in the queue to get the reservation. Time and man power is needed to carry out these things. To avoid all the above pitfalls the system proposed is "Caltrain Reservation System".

Methodology

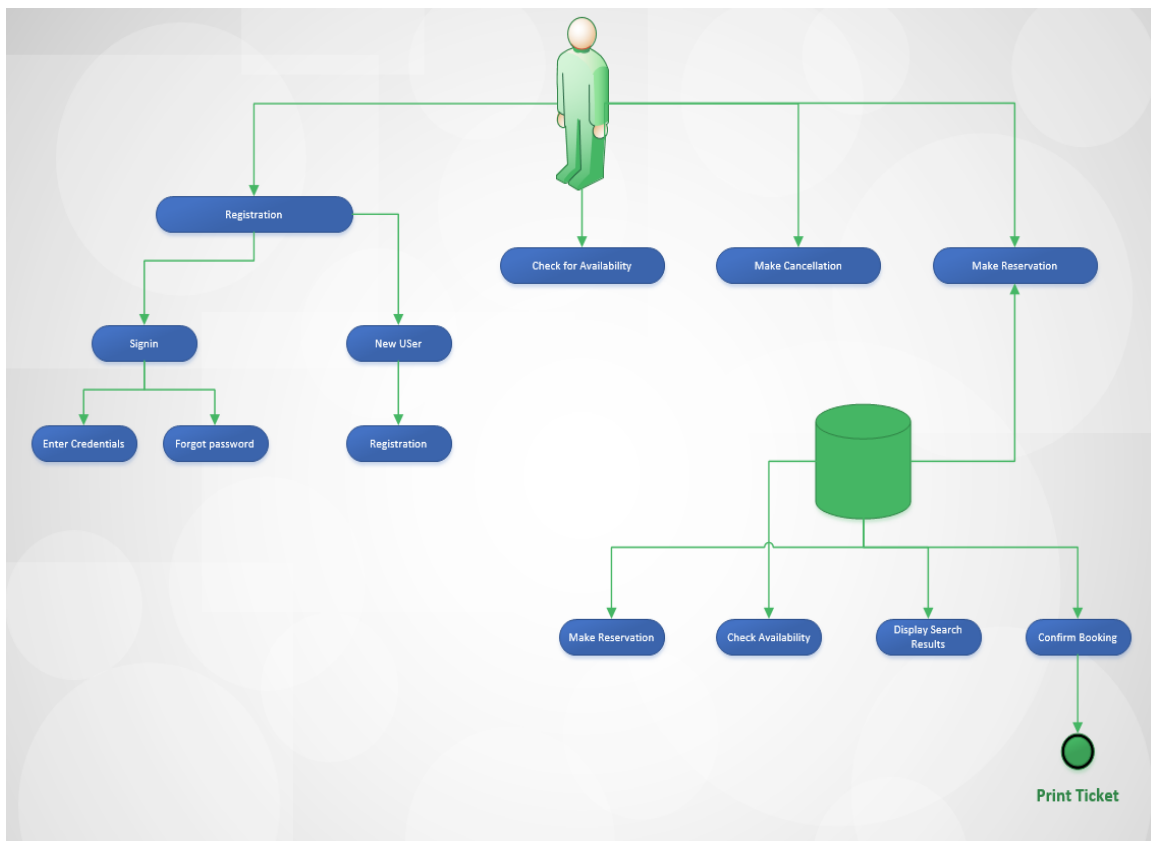To implement the above goals , the following methodology needs to be followed :
1) Registration for a user account.
2) Searching for the train from a particular source to destination
3) Displaying the availability of the trains from chosen source and destination with the record of train status including dates for which tickets can be booked.
4) Confirmation of booking
5) Printing the ticket.

TOOLS DESCRIPTION:

User Interface

The tool is very user friendly and intuitive and uses a GUI interface implemented in JAVA to communicate with the user. Various features are self – explanatory. Forms are easy to fill in and components can be added, removed and updated very easily. The application includes tool-tip hints to give a brief description of the particular input field. List boxes are used to display all the components at once so that user can see all the components of a particular type at once. One can just select the component and modify the component.
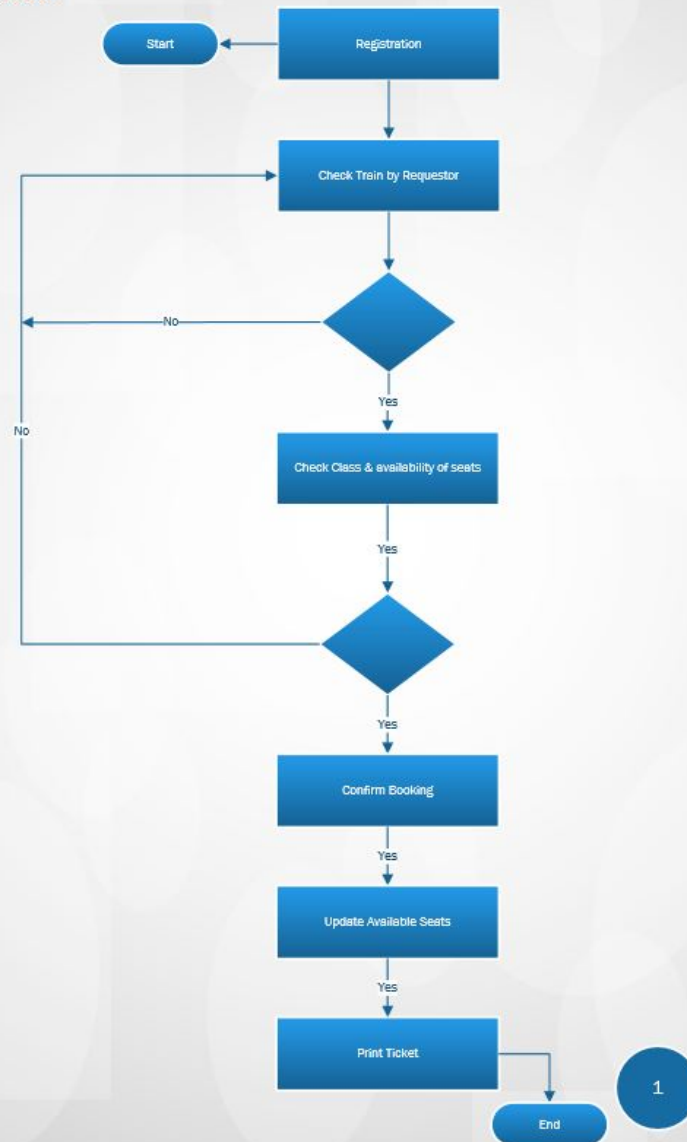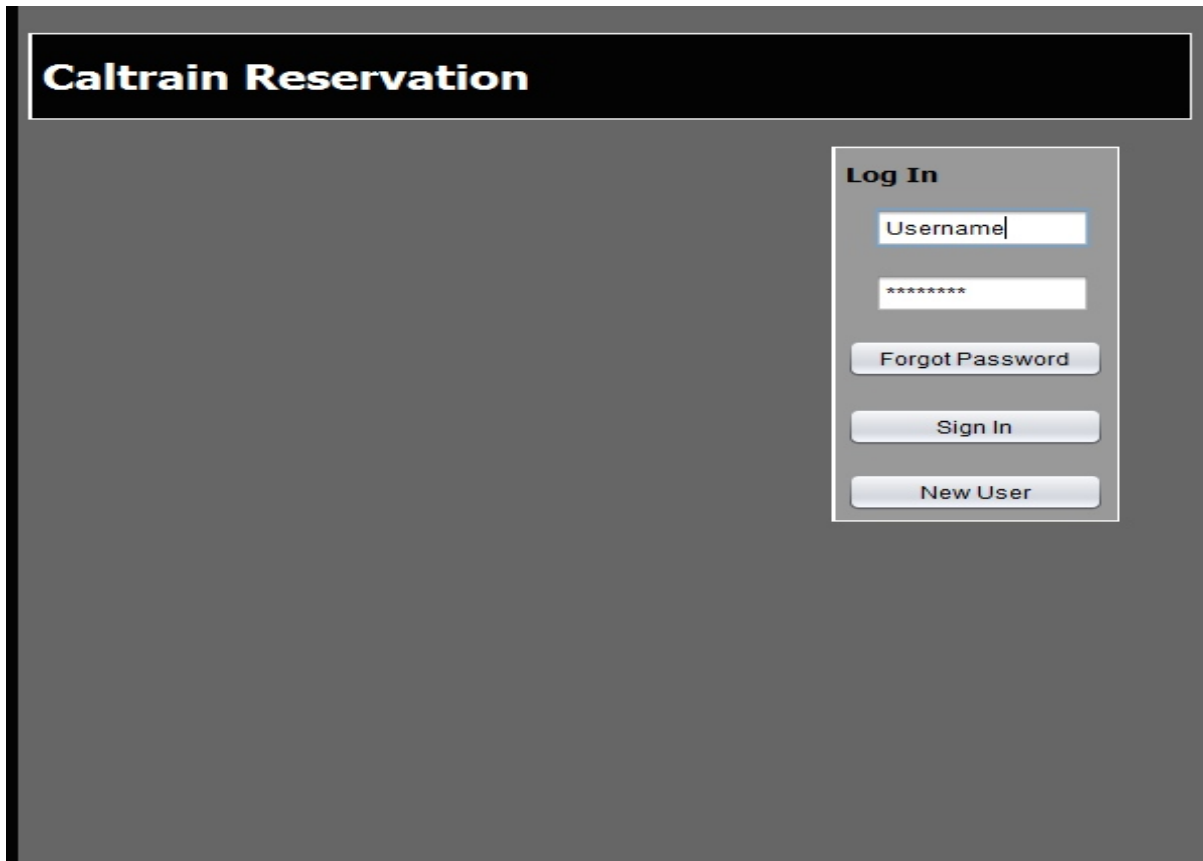
Solution Specification and Design

USE CASE DIAGRAM

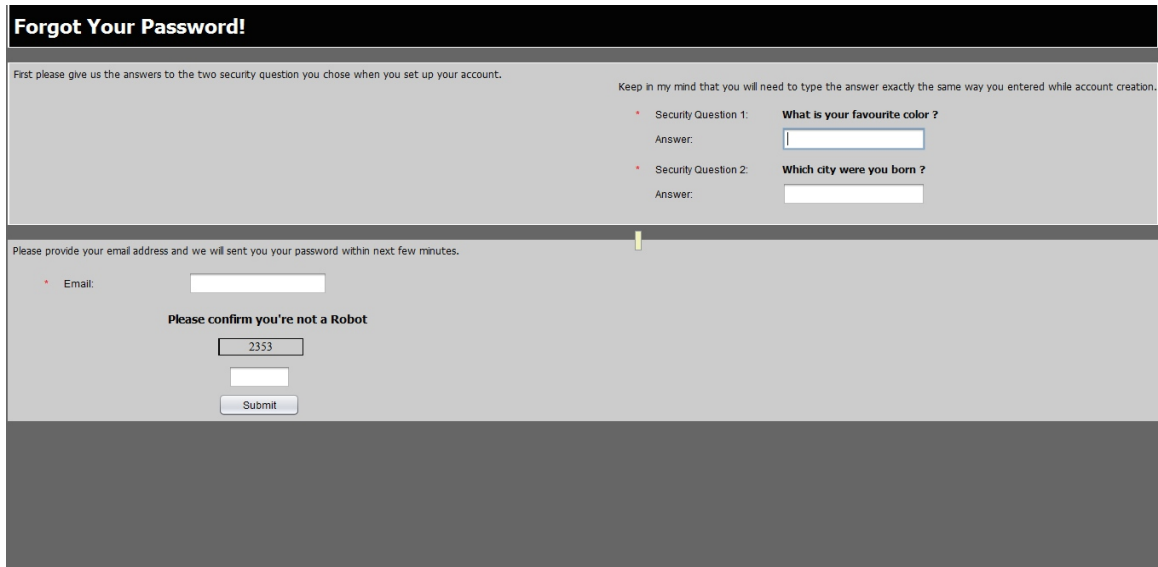# Caltrain Reservation System

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PROCESS FLOW DIAGRAM

SPECIFICATIONS

Caltrain Reservation

Log In

Username

****

Forgot Password

Sign In

New User

LOGIN PAGE: Allows user to sign in with his/her existing account, or a new user can create there own account. If the existing user forgets his/her password then he can click on forget password button.

Forgot Your Password!

First please give us the answers to the two security question you chose when you set up your account.

Keep in my mind that you will need to type the answer exactly the same way you entered while account creation.

* Security Question 1: **What is your favourite color ?**

Answer:

* Security Question 2: **Which city were you born ?**

Answer:

Please provide your email address and we will sent you your password within next few minutes.

* Email:

Please confirm you're not a Robot

2353

Submit

Sign Up for Caltrain   Log Out

Please fill up the form below to continue the reservation process

First Name   [   ] *
Last Name   [   ] *
Email Id   [   ] *
Address   [   ]

Gender   ○ Male   ○ Female
D.O.B   [Day ▼] [Month ▼] [Year ▼]
Phone Number [   ]
User Name   [   ] *
Password   [   ] *
Confirm Password [   ] *

[Register]   [Reset]

SIGN UP PAGE: Sign up page allows the new user to create his/her account in Caltrain Reservation System, with security question functionality which allows the user to retrieve his/her password if in case they forget in future.

Thank you for registering with us

Please fill in the below details for your password retrieval...

Security Question 1:   [Please chose a Question ▼]
Answer: [   ]
Security Question 2:   [Please chose a Question ▼]
Answer   [   ]

Please click the submit button below to start with the application.

[Submit]

Search Trains

Traveling From	Select Origin ▾
Traveling To	Select Destination ▾
Trip Type	○ One-Way ○ Round Trip
Departing On	Select a Date
Returning On	Select a Date
No of Passengers	☐

Search

SEARCH TRAIN: User needs to search for his/her train by choosing source and destinations of train as well as the date and the trip type like one way or round trip.

Search Results   Log Out

San Jose   To   San Francisco

○ 1001   SJSF10WD departs San Jose at 10.00 hrs and arrives San Francisco at 16.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1002   SJSF11WD departs San Jose at 11.00 hrs and arrives San Francisco at 17.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1003   SJSF12WD departs San Jose at 12.00 hrs and arrives San Francisco at 18.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1021   SJSF17WD departs San Jose at 17.00 hrs and arrives San Francisco at 23.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1022   SJSF18WD departs San Jose at 18.00 hrs and arrives San Francisco at 24.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

San Francisco   To   San Jose

○ 1004   SFSJ10WD departs San Francisco at 10.00 hrs and arrives San Jose at 16.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1005   SFSJ11WD departs San Francisco at 11.00 hrs and arrives San Jose at 17.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1006   SFSJ12WD departs San Francisco at 12.00 hrs and arrives San Jose at 18.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1023   SFSJ17WD departs San Francisco at 17.00 hrs and arrives San Jose at 23.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

○ 1024   SFSJ18WD departs San Francisco at 18.00 hrs and arrives San Jose at 24.00 hrs with a total duration of 6.00 hrs with a total cost of 60$

Return to the Search Page   Confirm Booking

SEARCH RESULT: Depending upon the trip type user will get his/her search results for the train they choose.

Ticket Details

Log Out

Congratulations! **Pratham Vasa** You have booked the ticket successfully.

Transaction ID	509961	**PNR No**	108545
Train No	1007 , 1019	**Train Name**	SJSF12WE , SFSJ14WE
From	San Jose	**To**	San Francisco
Trip Type	Round Trip	**Status**	Confirmed

Click here to book another ticket

TICKET DETAILS: Once confirmed his/her booking, ticket is available to print.

Log Out

You have been successfully logged out of the application.

Your session is now closed. To protect your privacy, you should close this window. To re-enter the application, click on the sign in below.

Sign-In