**Requirements and Software Specifications**

Requirements:-

**Features:**

Passenger can able to register and login on to the site. He can book the tickets, cancellation of tickets, pnr status check, tatkal booking and all the related information that needed to a passenger. Payment transactions should be done through registered banks either through debit card, credit card, net banking.

**Performance:**

Transactions for booking should be completed within specified time (max 5mins) and receives mail or sms for that particular booking. Any error (network errors, incomplete transactions) occurred during payment, money should be rollback to the passenger account.

**Design:-**

When a user login he can check the availability for his travel, booking, cancellation, pnr status check, trains arrival-departure info.

When a admin login , update the changes regarding train timings, additional trains ,any additional services provided to the user.

**Technologies:**

Front End:-

1)HTML , CSS.

2) JSP.

3) JAVASCRIPT , AJAX.

Backend:-

JAVA

Database: ORACLE

**Infrastructure:** CENTRALIZED SERVER.

**EVENTFLOW:-**

USER LOGIN

TICKET BOOKING

PNR STATUS/WAITING LIST STATUS

CANCELLATION

LOGOUT

Cancelled ticket page

Ticket page

PAYMENT GATEWAY

Cancel the ticket

Highlight the respective ticket

ENTER THE PASSENGER DETAILS

CHECK AVAILABILITY

ENTER THE PNR NUMBER

RETREIVE THE TICKET DETAILS

Positive Test Cases:-

1. After login user should see ticket booking page.
2. Source and Destination Stations should be entered.
3. User can book the ticket only if the duration between travel date and booking date are 60 days.
4. User should receive a sms after booking a ticket.

Negative Test Cases:-

1. Even if he books the ticket before 1 hour.
2. If he logins with incorrect credentials.