

PROJECT
SYNOPSIS

OF

Train Ticket
Booking System

Submitted To :



Submitted By :

Rohit Janaba Hongekar
(O23MCA110010)

Table of Contents

1.	Project Title
2.	Table of Contents
3.	Objective
4.	Resources Required

Objective

The Objective of the Project are -

- ◆ To provide a user-friendly platform for booking and managing train tickets.
- ◆ To streamline the train reservation process and reduce manual errors.
- ◆ To maintain accurate and secure records of users, trains, and bookings.
- ◆ To offer real-time updates on train availability and schedules.

Simplify the Ticket Booking Process:

Provide a streamlined and intuitive interface for users to book tickets without visiting railway stations.

Minimize Manual Work and Human Errors:

Automate the reservation and cancellation processes to reduce errors typically associated with manual booking systems.

Enable Real-Time Seat Availability Check:

Allow users to check seat availability instantly and book accordingly.

Ensure Data Security and Integrity:

Protect sensitive user data and booking information through secure authentication and encrypted storage.

Improve Administrative Efficiency:

Provide railway staff with tools to manage train schedules, track bookings, and generate reports.

Maintain Accurate Records:

Keep systematic and searchable records of passengers, bookings, train routes, and transactions.

Facilitate Easy Cancellation and Refund Handling:

Offer a user-friendly cancellation feature with clear refund policies.

Allow Multi-User Access with Role-Based Controls:

Implement role-based access (e.g., admin vs. user) to prevent unauthorized modifications.

Support Multiple Train Routes and Schedules:

Accommodate a dynamic list of train routes, stops, schedules, and train classes (e.g., sleeper, AC, etc.).

Enable Booking History and Tracking:

Allow users to view and track their past and upcoming travel plans.

Enhance User Experience:

Provide a clean, responsive design for web or mobile platforms for accessibility across devices.

Resources Required

Hardware Requirements:

- a) Pentium-IV processor or above
- b) 2GB RAM
- c) 40GB Hard Disk

Software Requirements:

- a) Eclipse EE IDE
- b) MySQL Database
- c) Java v8.0+
- d) Apache Maven
- e) Tomcat v8.0+

Technology Used:

Front-End Development:

- a) HTML
- b) CSS
- c) Bootstrap

Back-End Development:

- a) Java [J2EE]
- b) JDBC
- c) Servlet
- d) MySQL