

# Railway Management System

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20 November 2021

# Overview

To create a Railway Management System which helps us to enquire about the trains, seat availability, Running status and Food services in the trains.

# Tech Stack

- Web Application
  - Python
  - HTML
  - CSS
  - Flask
  - Javascript
  - MYSQL

# Website

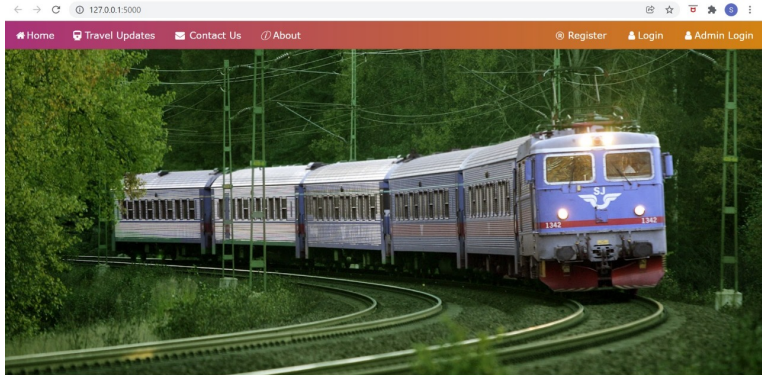


Figure: Homepage

# Website

← → ↻ 127.0.0.1:5000/register1

## Registration

Basic Details:

Username

Password

Confirm Password

Choose a security question

Security Answer

Next

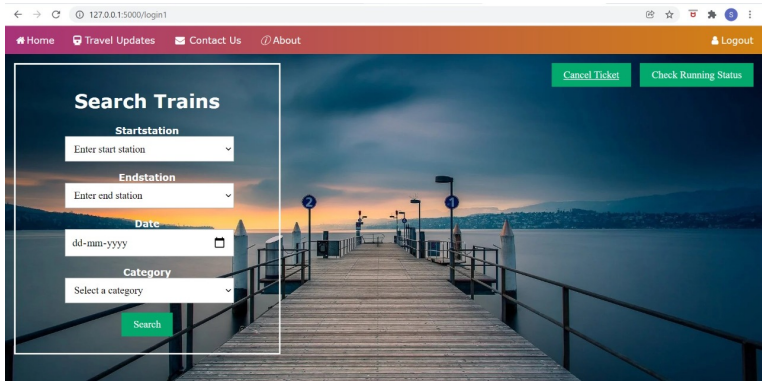
Figure: Registration Page

# Website



Figure: Login Page

# Website



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/login1". The website has a dark blue header with navigation links: Home, Travel Updates, Contact Us, and About. A "Logout" link is visible in the top right corner. The main content area features a large background image of a wooden pier extending into a body of water at sunset. On the left side, there is a "Search Trains" form with the following fields: "Startstation" (dropdown menu), "Endstation" (dropdown menu), "Date" (text input with a calendar icon), and "Category" (dropdown menu). A green "Search" button is located below the form. On the right side of the main content area, there are two green buttons: "Cancel Ticket" and "Check Running Status".

← → 127.0.0.1:5000/login1

Home Travel Updates Contact Us About Logout

## Search Trains

**Startstation**  
Enter start station ▼

**Endstation**  
Enter end station ▼

**Date**  
dd-mm-yyyy 📅

**Category**  
Select a category ▼

Search

Cancel Ticket Check Running Status

Figure: Search Page

# Website

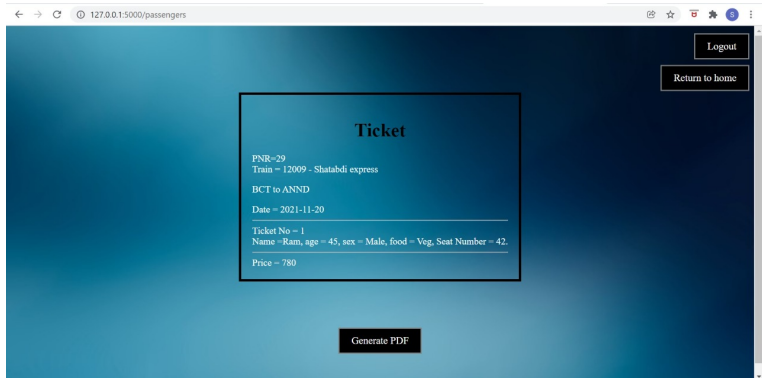


Figure: Ticket



# Website

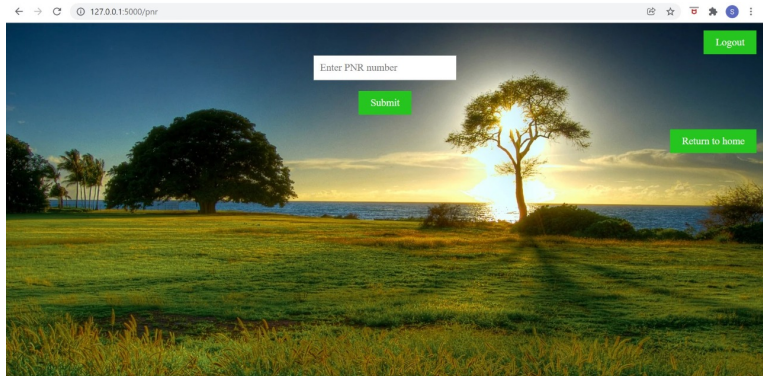


Figure: PNR Details for Cancellation

# Website

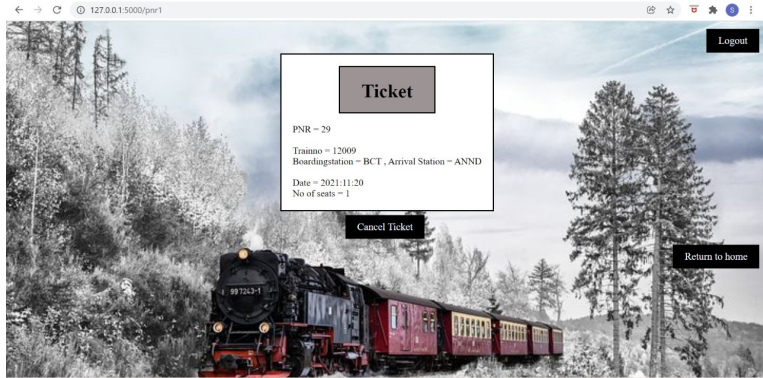


Figure: Cancellation

# Website

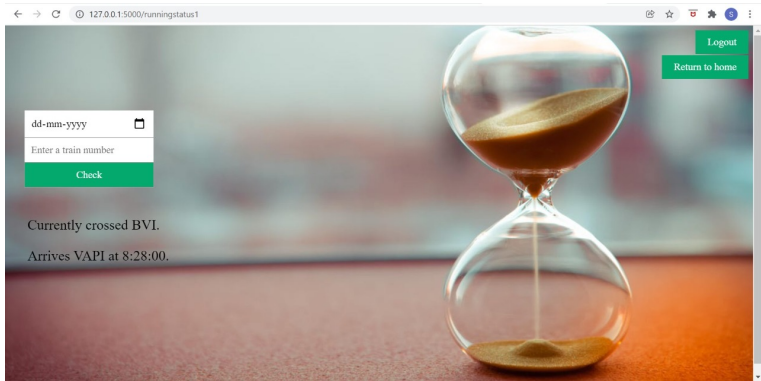


Figure: Running Status

# Website

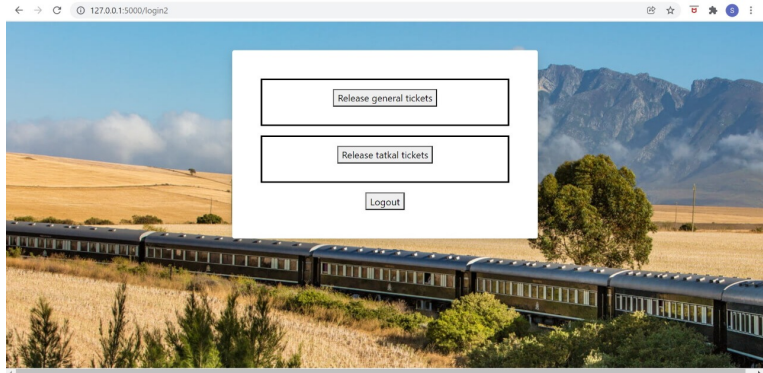


Figure: Admin Rights

# Website

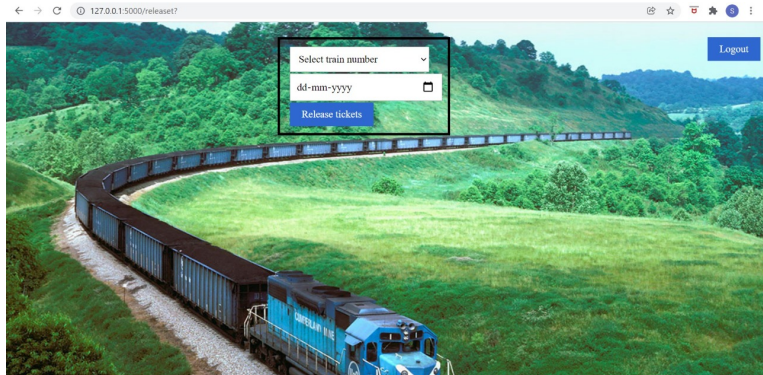


Figure: Release of Tickets

# Demo

Let me show all the features of our website

# Learnings

- Gained vast knowledge about queries in database, python and flask.
- Developing a website using HTML, CSS and Javascript.
- Came to know the importance of team work and coordination among the team members.
- Time management is an important take away from this project.

# Challenges

- It took some time for us to coordinate within ourselves and create a smooth path ahead.
- Took a lot of time to write the queries for getting all the details together.
- Creating the ER Diagram involved a lot of reconstructions of the schemas.
- Calculating the prices of the tickets including the food costs.



## Future Extensions

- We will try to create a dynamic model for appending Trains.
- We will try implement the Transactions.

Thank You