

Railway Reservation System Application

Project Overview

This Railway Reservation System is a comprehensive software solution designed to streamline and modernize the process of booking train tickets, managing train schedules, and administering railway operations. The application features both user and administrator interfaces with role-based access control.

Tools Used

- **Python:** Core language for application development
- **CustomTkinter:** Enhanced Tkinter framework for modern UI components
- **MySQL:** Relational database to store booking, train, and user information
- **MySQL Connector:** For database connectivity and operations
- **BCrypt:** For secure password hashing and verification
- **Pillow (PIL):** For image processing and display
- **Matplotlib:** For data visualization and analytical charts
- **TkCalendar:** For date selection widgets
- **Python-dotenv:** For environment variable management

Application Features

Authentication System

- **Login Interface**
 - Modern interface with background image and user-friendly controls
 - Secure authentication against the users table
 - Password verification using BCrypt
 - Role-based redirection (Admin Dashboard or User Dashboard)

User Journey Features

- **Registration System**
 - New user registration with validation
 - Secure password storage with BCrypt hashing
 - Email format validation and duplicate account prevention

- **Ticket Booking Process**

- Four-step booking workflow: Search, Select Train, Enter Passenger Details, Payment
- Filter options by train class (Sleeper, AC, General)
- Multiple payment method support
- Real-time fare calculation
- Booking confirmation with PNR generation

- **Passenger Management**

- Support for multiple passengers per booking (up to 6)
- Individual passenger details with seating preferences
- Age and gender capture for each passenger

- **Booking Management**

- View upcoming journeys
- Access booking history
- Cancel bookings with confirmation
- View detailed booking information with PNR

Admin Features

- **Dashboard Analytics**

- Visual representation of booking statistics
- Revenue tracking with pie and bar charts
- Daily booking trends analysis
- Train status monitoring

- **Train Management**

- Add new trains with details
- Edit existing train information
- Remove trains from the system
- Search and filter train data

- **Schedule Management**

- Create train schedules with routes
- Set fares for different classes

- Update departure/arrival times
 - Mark delays or cancellations
- **Passenger Oversight**
 - View all passenger bookings
 - Filter by travel class
 - Export passenger data to CSV
 - Search functionality
- **Revenue Analytics**
 - Revenue breakdown by travel class
 - Top performing routes analysis
 - Payment method statistics
 - Date-range based filtering

User Profile Features

- **Personal Settings**
 - Profile information management
 - Password change functionality
 - Theme preference (Light/Dark mode)
 - View booking history and statistics

Database Design

The system uses a MySQL database with the following key tables:

1. **users**: Stores user account information and authentication details
2. **trains**: Contains train details including number, name and seat capacity
3. **schedules**: Maintains journey details with routes, times, and fares
4. **bookings**: Records ticket bookings with payment information
5. **passengers**: Stores individual passenger details linked to bookings

Key Relationships in Database

- Users can have multiple bookings
- Each booking can have multiple passengers
- Each schedule is linked to a specific train

- Schedules determine the routes and fares available for booking

UI/UX Design

- **Modern Interface:** Clean, intuitive design with consistent color scheme
- **Responsive Layout:** Adapts to window resizing
- **Theme Options:** Light and dark mode support
- **Meaningful Feedback:** Notifications, alerts, and confirmation dialogs
- **Visual Hierarchy:** Clear organization of information with appropriate spacing
- **Progress Indicators:** Loading animations and progress bars

Security Features

- Password encryption using BCrypt
- Validation of user inputs
- Role-based access control
- Authentication for sensitive operations

Additional Features

- Date selection using calendar widget
- Real-time fare calculation
- Booking cancellation with confirmation
- Search functionality throughout the application
- Export data capability for administrative purposes

Queries

```
CREATE DATABASE IF NOT EXISTS railway_system;
```

```
USE railway_system;
```

```
-- Users table
```

```
CREATE TABLE IF NOT EXISTS users (
```

```
    id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    name VARCHAR(100) NOT NULL,
```

```
    email VARCHAR(100) UNIQUE NOT NULL,
```

```
password VARCHAR(255) NOT NULL,  
phone VARCHAR(15),  
is_admin BOOLEAN DEFAULT FALSE,  
profile_pic VARCHAR(255),  
theme VARCHAR(10) DEFAULT 'light',  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

-- Trains table

```
CREATE TABLE IF NOT EXISTS trains (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    train_number VARCHAR(20) UNIQUE NOT NULL,  
    train_name VARCHAR(100) NOT NULL,  
    total_seats_sleeper INT NOT NULL,  
    total_seats_ac INT NOT NULL,  
    total_seats_general INT NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

-- Schedules table

```
CREATE TABLE IF NOT EXISTS schedules (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    train_id INT NOT NULL,  
    source VARCHAR(100) NOT NULL,  
    destination VARCHAR(100) NOT NULL,  
    departure_date DATE NOT NULL,  
    departure_time TIME NOT NULL,  
    arrival_date DATE NOT NULL,  
    arrival_time TIME NOT NULL,
```

```
fare_sleeper DECIMAL(10, 2) NOT NULL,  
fare_ac DECIMAL(10, 2) NOT NULL,  
fare_general DECIMAL(10, 2) NOT NULL,  
status ENUM('on-time', 'delayed', 'cancelled') DEFAULT 'on-time',  
delay_minutes INT DEFAULT 0,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (train_id) REFERENCES trains(id) ON DELETE CASCADE  
);
```

-- Bookings table

```
CREATE TABLE IF NOT EXISTS bookings (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    user_id INT NOT NULL,  
    schedule_id INT NOT NULL,  
    pnr VARCHAR(10) UNIQUE NOT NULL,  
    booking_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    total_fare DECIMAL(10, 2) NOT NULL,  
    status ENUM('confirmed', 'cancelled') DEFAULT 'confirmed',  
    payment_method ENUM('credit_card', 'debit_card', 'net_banking', 'upi') NOT NULL,  
    payment_id VARCHAR(100),  
    FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE,  
    FOREIGN KEY (schedule_id) REFERENCES schedules(id) ON DELETE CASCADE  
);
```

-- Passengers table

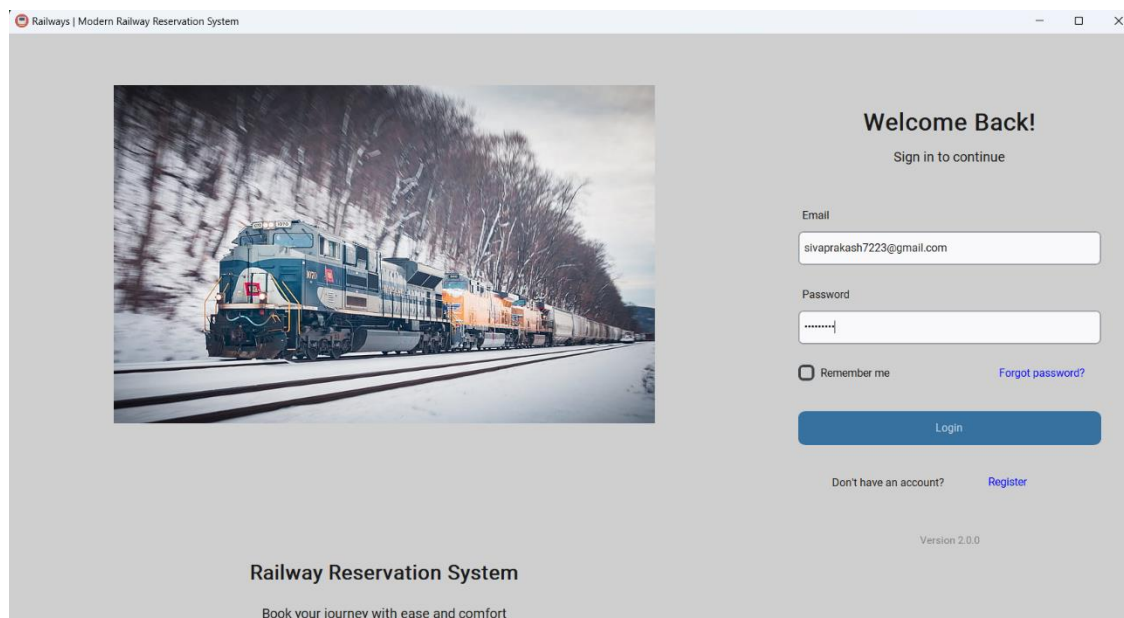
```
CREATE TABLE IF NOT EXISTS passengers (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    booking_id INT NOT NULL,  
    name VARCHAR(100) NOT NULL,
```

```
age INT NOT NULL,  
gender ENUM('male', 'female', 'other') NOT NULL,  
seat_class ENUM('sleeper', 'ac', 'general') NOT NULL,  
seat_number VARCHAR(10),  
FOREIGN KEY (booking_id) REFERENCES bookings(id) ON DELETE CASCADE  
);
```

-- Notifications table

```
CREATE TABLE IF NOT EXISTS notifications (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    user_id INT NOT NULL,  
    message TEXT NOT NULL,  
    is_read BOOLEAN DEFAULT FALSE,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE  
);
```

Application Screenshots (GUI)



Railways

Admin User

Administrator

Dashboard

Manage Trains

Manage Schedules

Bookings

Revenue

Passengers

Settings

Appearance Mode:

Light

Logout

Manage Schedules

Add Schedule

View Schedules

Search:

Filter by date:

2025-05-05

Filter

Reset

Train	Route	Departure	Arrival	Sleeper	AC	General	Status	Actions
12301 Rajdhani Express	Delhi → Mumbai	2025-05-05 8:30:00	2025-05-06 5:15:00	₹1200.00	₹2500.00	₹600.00	On Time	<div></div> <div></div>
12302 Shatabdi Express	Chennai → Bangalore	2025-05-05 10:45:00	2025-05-05 15:30:00	₹800.00	₹1500.00	₹400.00	On Time	<div></div> <div></div>
12347 Durgam Express	Chennai → Tuticorin	2025-05-05 19:00:00	2025-05-06 7:30:00	₹420.00	₹850.00	₹250.00	On Time	<div></div> <div></div>
25609 Pearl Express	Chennai → Tuticorin	2025-05-06 19:00:00	2025-05-07 7:30:00	₹420.00	₹800.00	₹250.00	On Time	<div></div> <div></div>
12303 Durgam Express	Kolkata → Delhi	2025-05-06 23:00:00	2025-05-08 2:30:00	₹1500.00	₹3000.00	₹800.00	Delayed (45m)	<div></div> <div></div>
12304 Tejas Express	Mumbai → Pune	2025-05-07 6:15:00	2025-05-07 9:30:00	₹500.00	₹1000.00	₹300.00	On Time	<div></div> <div></div>
25609 Pearl Express	Tuticorin → Chennai	2025-05-07 19:00:00	2025-05-08 7:30:00	₹420.00	₹800.00	₹250.00	On Time	<div></div> <div></div>
12305 Vande Bharat	Delhi → Jaipur	2025-05-08 14:20:00	2025-05-08 19:45:00	₹700.00	₹1400.00	₹350.00	On Time	<div></div> <div></div>
25609 Pearl Express	Coimbatore → Chennai	2025-05-08 21:00:00	2025-05-09 6:30:00	₹400.00	₹720.00	₹180.00	On Time	<div></div> <div></div>
25609 Pearl Express	Chennai → Coimbatore	2025-05-09 21:00:00	2025-05-10 6:30:00	₹400.00	₹720.00	₹180.00	On Time	<div></div> <div></div>

Edit Schedule

Train: 12301 - Rajdhani Express

Source Station

Destination Station

Delhi

Mumbai

Departure Date

Departure Time (HH:MM)

2025-05-05

8:30:00

Arrival Date

Arrival Time (HH:MM)

2025-05-06

5:15:00

Schedule Status

on time

Ticket Fares

Sleeper Class (₹)

AC Class (₹)

General Class (₹)

1200.00

2500.00

600.00

Update Schedule

Cancel

Railways

Admin User

Administrator

Dashboard

Manage Trains

Manage Schedules

Bookings

Revenue

Passengers

Settings

Appearance Mode:

Light

Logout

Manage Bookings

All Bookings

Today's Bookings

Cancelled Bookings

Search by PNR or Name:

Search

Filter by date:

2025-05-05

Filter

Reset

Export to CSV

PNR: RKRSGBTAL9

Confirmed

Total Fare: ₹250.00

Booked by: SivaNithin (siva123@gmail.com)

Booking Date: 2025-05-05 17:27:09

Payment: Debit Card

Train: 12347 - Durgam Express

Journey: Chennai → Tuticorin | Departure: 2025-05-05 19:00:00

View Details

Cancel Booking

PNR: 6J1VOHODM4

Confirmed

Total Fare: ₹800.00

Booked by: Kamal (kamal7223@gmail.com)

Booking Date: 2025-05-04 19:14:37

Payment: Upi

Train: 12302 - Shatabdi Express

Journey: Chennai → Bangalore | Departure: 2025-05-05 10:45:00

View Details

Cancel Booking

Railways

Admin User

Administrator

Dashboard

Manage Trains

Manage Schedules

Bookings

Revenue

Passengers

Settings

Appearance Mode:

Light

Logout

Revenue Analytics

Select Date Range:

From: 2025-05-01

To: 2025-05-01

Apply

Total Revenue

Confirmed Bookings

Avg. Booking Value

Cancellation Rate

₹11,560.00

9

₹1,284.44

0.0%

Daily Revenue Trend

Revenue (₹)

₹1,200

₹1,000

₹800

₹600

₹400

₹200

₹0

2025-05-01

2025-05-02

2025-05-03

2025-05-04

2025-05-05

2025-05-06

2025-05-07

2025-05-08

₹1,200.00

Revenue by Travel Class

Railways

Admin User

Administrator

Dashboard

Manage Trains

Manage Schedules

Bookings

Revenue

Passengers

Settings

Appearance Mode:

Light

Logout

Revenue Analytics

Select Date Range:

From: 2025-05-01

To: 2025-05-01

Apply

Total Revenue

Confirmed Bookings

Avg. Booking Value

Cancellation Rate

₹11,560.00

9

₹1,284.44

0.0%

Revenue by Travel Class

Revenue (₹)

₹12,000

₹10,000

₹8,000

₹6,000

₹4,000

₹2,000

₹0

Sleeper

AC

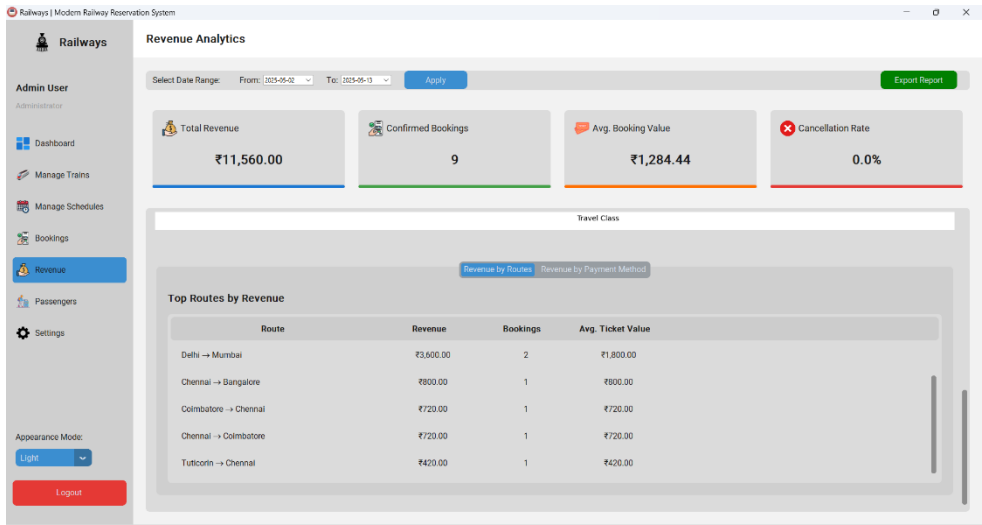
₹1,200

₹2,500

₹600

Revenue by Travel Class

Revenue by Travel Class



Railways | Modern Railway Reservation System

Passenger Management

Search Passengers: Search Filter by Class: All Apply Filter Reset Export to CSV

Passenger Name	Age/Gender	Class/Seat	PNR/Status	Train	Journey	Departure
Sivaprakash	18 / Male	Ac / Not assigned	FBPZ1P0TE1 Confirmed	25609 Pearl Express	Chennai → Coimbatore	2025-05-09 21:00:00
Sivaprakash	18 / Male	Ac / Not assigned	9GDYMATKCKX Confirmed	25609 Pearl Express	Coimbatore → Chennai	2025-05-08 21:00:00
Akash	17 / Male	Sleeper / Not assigned	F3DRJXZF9A Confirmed	25609 Pearl Express	Tuticorin → Chennai	2025-05-07 19:00:00
Akash	16 / Male	Ac / Not assigned	LR87NU63Q1 Confirmed	25609 Pearl Express	Chennai → Tuticorin	2025-05-06 19:00:00
Nithin Prakash	18 / Male	General / Not assigned	RKRSG8TAL9 Confirmed	12347 Duroto Express	Chennai → Tuticorin	2025-05-05 19:00:00
nithish	18 / Male	Ac / Not assigned	4N4H90FHV Confirmed	12347 Duroto Express	Chennai → Tuticorin	2025-05-05 19:00:00
ravathi	48 / Female	Ac / Not assigned	4N4H90FHV Confirmed	12347 Duroto Express	Chennai → Tuticorin	2025-05-05 19:00:00
murugan	51 / Male	Ac / Not assigned	4N4H90FHV Confirmed	12347 Duroto Express	Chennai → Tuticorin	2025-05-05 19:00:00

Railways | Modern Railway Reservation System

System Settings

User Management Account Settings System Info

Search Users: Search Reset Add New User

Name	Email	Role	Theme	Joined Date	Actions
Admin User	admin@railways.com	Admin	Light	2025-05-04	Edit Delete
Admin User	shivaprakash7223@gmail.com	Admin	Light	2025-05-04	Edit Delete
Akash	Akash123@gmail.com	User	Light	2025-05-05	Edit Delete
Bharath Kumar	bharath7223@gmail.com	User	Light	2025-05-05	Edit Delete
Bharath	bharathKumar7223@gmail.com	User	Light	2025-05-05	Edit Delete
Jane Doe	jane@acsample.com	User	Light	2025-05-04	Edit Delete
John Smith	john@esample.com	User	Light	2025-05-04	Edit Delete
Kamal	kamal7223@gmail.com	User	Light	2025-05-04	Edit Delete
Nithish	nithish7223@gmail.com	User	Light	2025-05-04	Edit Delete
Rajasekar	rajasekar7223@gmail.com	User	Light	2025-05-04	Edit Delete

Edit User: Akash

Edit User: Akash

Full Name: Akash

Email: Akash123@gmail.com

New Password (leave blank to keep current):

Role: ☒ Regular User ☐ Administrator

Theme: ☒ Light ☐ Dark

Update User Cancel

Railways

Admin User

Administrator

Dashboard

Manage Trains

Manage Schedules

Bookings

Revenue

Passengers

Settings

Appearance Mode:

Light

Logout

System Settings

User Management

Account Settings

System Info

Application Information

Application Name:

Railways - Modern Railway Reservation System

Version:

2.0.0

Last Updated:

2025-05-01

Developed By:

Codebase Team

Database Statistics

Total Users:

13

Total Trains:

9

Total Schedules:

10

Total Bookings:

11

Total Passengers:

18

Total Revenue:

₹12,760.00

Default User

Railways

Rohith

Passenger

Dashboard

Book Tickets

My Bookings

Train Schedule

My Profile

Appearance Mode:

Light

Logout

Passenger Dashboard

May 05, 2025 19:46

TICKET

Welcome back, Rohith!

Book your journey with ease and comfort

Quick Actions

Book New Ticket

Book Now

My Bookings

View All

Train Schedule

Check Schedule

My Recent Bookings

PNR: PBPZHP0TE1

Confirmed

Pearl Express

Chennai → Coimbatore

Departure: 2025-05-09 21:00:00

₹720.00

PNR: 9GDYM4TKCX

Confirmed

Upcoming Journeys

Pearl Express

On Time

Chennai → Tuticorin

PNR: LR87NU63Q1

Departure: 2025-05-06 19:00:00

View Details

Pearl Express

On Time

Railways

Rohith

Passenger

Dashboard

Book Tickets

My Bookings

Train Schedule

My Profile

Appearance Mode:

Light

Logout

Book Train Tickets

May 05, 2025 19:46

Search Trains

Search Results

Passenger Details

Payment

12347 - Duronto Express

Chennai → Tuticorin | 2025-05-05 19:00:00 | Class: Sleeper

Fare per passenger: ₹420.00

Passenger Details

Number of Passengers: 2 (Maximum 6 passengers per booking)

Passenger 1 (Lead Passenger)

Full Name:

Remy

Age:

18

Gender:

Male

Female

Other

Seat Preference:

No Preference

Window

Aisle

Passenger 2

Full Name:

Mohanraj

Age:

18

Gender:

Male

Female

Other

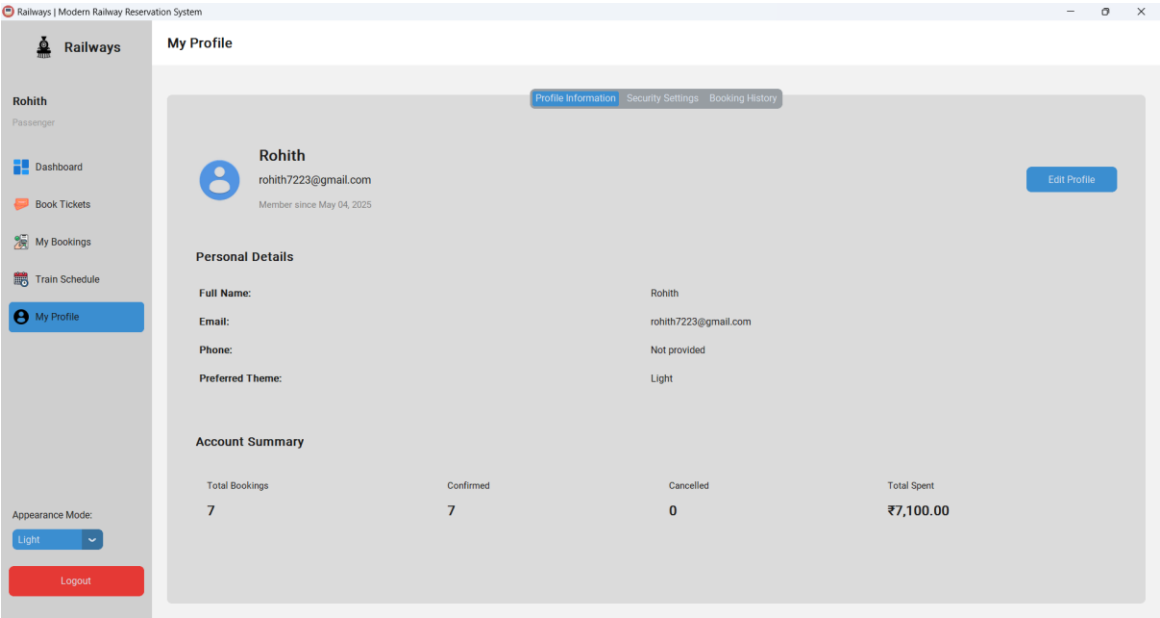
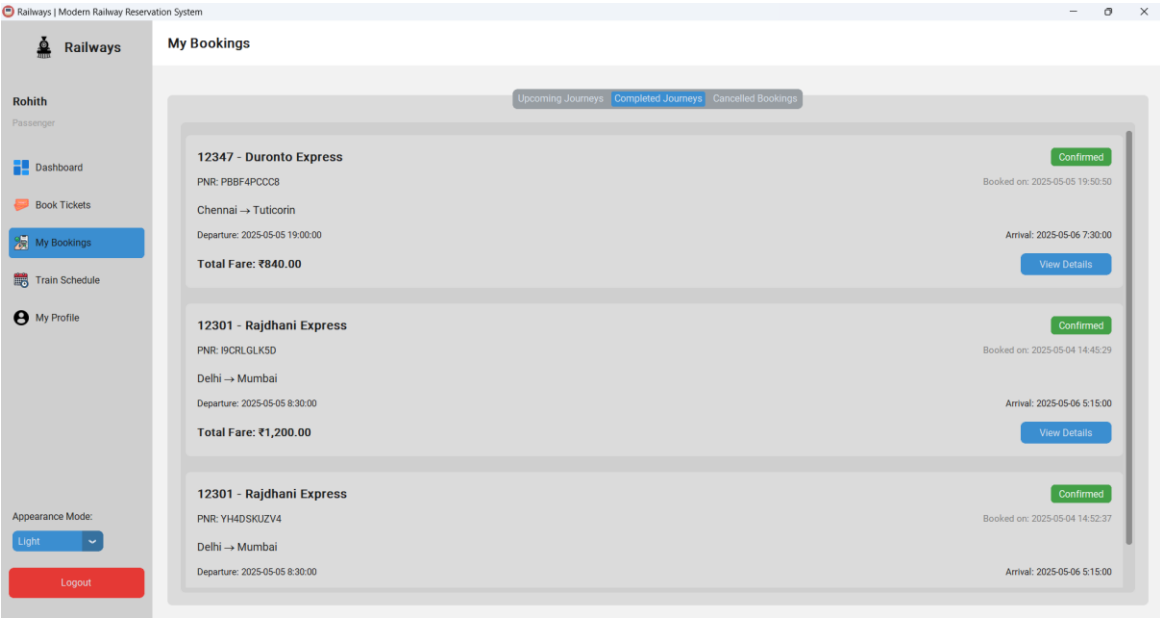
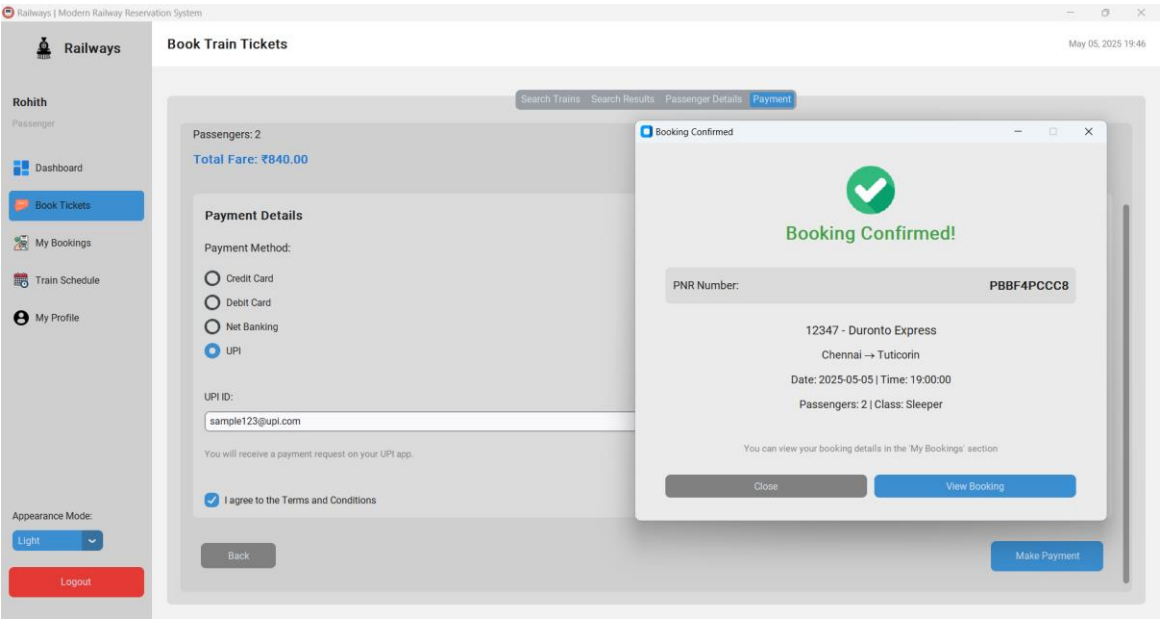
Seat Preference:

Aisle

Back to Results

Total Fare: ₹840.00

Continue to Payment



MySQL Tables

Administration	Schemas
Information	
Table: bookings	
Columns:	
id	int AI PK
user_id	int
schedule_id	int
pnr	varchar(10)
booking_date	timestamp
total_fare	decimal(10,2)
status	enum('confirmed','cancelled')
payment_method	enum('credit_card','debit_card','net_banking','upi')
payment_id	varchar(100)

Administration

Schemas

Information

Table: **passengers**

Columns:

id

int

AI PK

booking_id

int

name

varchar(100)

age

int

gender

enum('male','female','other')

seat_class

enum(' sleeper','ac','general')

seat_number

varchar(10)

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Content

	id	booking_id	name	age	gender	seat_class	seat_number
▶	1	1	Rohith	18	male	sleeper	WALL
	2	2	Kamal	18	male	sleeper	WALL
	3	2	Rajasekar	19	male	sleeper	WALL
	4	3	sivaprakash	18	male	sleeper	WALL
	5	4	Nithin Prakash	18	male	general	WALL
	6	5	nithish	18	male	ac	WALL
	7	5	ravathi	48	female	ac	WALL
	8	5	murugan	51	male	ac	WALL
	9	5	vinoth	17	male	ac	WALL
	10	5	uvan	21	male	ac	WALL
	11	6	Akash	16	male	ac	WALL
	12	7	Akash	17	male	sleeper	WALL
	13	8	Sivaprakash	18	male	ac	WALL
	14	9	Sivaprakash	18	male	ac	WALL

passengers 1 x

Apply

Revert

Result Grid

Form Editor

Field Types

Query Stats

Administration **Schemas**

Information

Table: schedules

Columns:

id	int
train_id	int
source	varchar(100)
destination	varchar(100)
departure_date	date
departure_time	time
arrival_date	date
arrival_time	time
fare_sleeper	decimal(10,2)
fare_ac	decimal(10,2)
fare_general	decimal(10,2)
status	enum('on-time','delayed','cancelled')
delay_minutes	int
created_at	timestamp

Result Grid
Filter Rows:
Edit
Export/Import
Wrap Cell Contents

	id	train_id	source	destination	departure_date	departure_time	arrival_date	arrival_time	fare_sleeper	fare_ac	fare_general
▶	1	1	Delhi	Mumbai	2025-05-05	08:30:00	2025-05-06	05:15:00	1200.00	2500.00	600.00
	2	2	Chennai	Bangalore	2025-05-05	10:45:00	2025-05-05	15:30:00	800.00	1500.00	400.00
	3	3	Kolkata	Delhi	2025-05-06	23:00:00	2025-05-08	02:30:00	1500.00	3000.00	800.00
	4	4	Mumbai	Pune	2025-05-07	06:15:00	2025-05-07	09:30:00	500.00	1000.00	300.00
	5	5	Delhi	Jaipur	2025-05-08	14:20:00	2025-05-08	19:45:00	700.00	1400.00	350.00
	6	8	Chennai	Tuticorin	2025-05-05	19:00:00	2025-05-06	07:30:00	420.00	850.00	250.00
	7	9	Chennai	Tuticorin	2025-05-06	19:00:00	2025-05-07	07:30:00	420.00	800.00	250.00
	8	9	Tuticorin	Chennai	2025-05-07	19:00:00	2025-05-08	07:30:00	420.00	800.00	250.00
	9	9	Coimbatore	Chennai	2025-05-08	21:00:00	2025-05-09	06:30:00	400.00	720.00	180.00
✱	10	8	Chennai	Coimbatore	2025-05-09	21:00:00	2025-05-10	06:30:00	400.00	720.00	180.00

Administration
Schemas

Information

Table: trains

Columns:

id	train_number	train_name	total_seats_sleeper	total_seats_ac	total_seats_general	created_at
int	AI PK					
varchar(20)						
varchar(100)						
int						
int						
int						
timestamp						

Result Grid

Edit
Filter Rows
Export/Import
Wrap Cell Content

	id	train_number	train_name	total_seats_sleeper	total_seats_ac	total_seats_general	created_at
▶	1	12301	Rajdhani Express	500	300	700	2025-05-04 12:14:20
	2	12302	Shatabdi Express	450	350	600	2025-05-04 12:14:20
	3	12303	Turonto Express	545	250	800	2025-05-04 12:14:20
	4	12304	Tejas Express	350	400	500	2025-05-04 12:14:20
	5	12305	Vande Bharat	400	450	400	2025-05-04 12:14:20
	6	12345	Rajdhani Express	500	300	700	2025-05-04 12:14:47
	7	12346	Shatabdi Express	450	350	600	2025-05-04 12:14:47
	8	12347	Turonto Express	550	250	800	2025-05-04 12:14:47
	9	25609	Pearl Express	470	190	780	2025-05-05 18:35:06
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

trains 1
Apply
Revert

Result Grid
Form Editor
Field Types
Query Stats

Administration

Schemas

Information

Table: users

Columns:

id

int

AI PK

name

varchar(100)

email

varchar(100)

password

varchar(255)

phone

varchar(15)

is_admin

tinyint(1)

profile_pic

varchar(255)

theme

varchar(10)

created_at

timestamp

Result Grid

Filter Rows:

Edit

Export/Import

Wrap Cell Contents

	id	name	email	password	phone	is_admin	profile_pic	theme
▶	1	Admin User	admin@railways.com	\$2b\$12\$6xSL4/qkTOLxWS8Dv9XofED6Jf6RTVQ...	NULL	1	NULL	light
	2	John Smith	john@example.com	\$2b\$12\$VvE5syKcJDe9m0Ja2NLLuT4B8T1qnpZK...	NULL	0	NULL	light
	3	Jane Doe	jane@example.com	\$2b\$12\$VvE5syKcJDe9m0Ja2NLLuT4B8T1qnpZK...	NULL	0	NULL	light
	4	Admin User	sivaprakash7223@gmail.com	\$2b\$12\$94vczk48S5xET4cf/9or.v5VB81ntqw27...	NULL	1	NULL	light
	5	Rohith	rohith7223@gmail.com	\$2b\$12\$S3r27x3Gnz144eA178oe2h1pEe/NL...	NULL	0	NULL	light
	6	Kamal	kamal7223@gmail.com	\$2b\$12\$KdZ0/ZZJMSFUCx9JaNkvuG/B9fHVAX...	NULL	0	NULL	light
	7	Nitish	nitish7223@gmail.com	\$2b\$12\$KxTKvuzJ3d.B9IDHSIX3eQAOPrWTrn3...	NULL	0	NULL	light
	8	Rajasekar	rajasekar7223@gmail.com	\$2b\$12\$Fcdp3Oba6wF6K8trA/e9gjdMXM3...	NULL	0	NULL	light
	9	Barath Kumar	Barath7223@gmail.com	\$2b\$12\$huYUo1zh0B0rV47yNf0W5K0xExY...	NULL	0	NULL	light
	10	Bharath	bharathkumar7223@gmail.com	\$2b\$12\$dnW6HvInF9S8hd/ctj0UPkeUnrfZhn...	NULL	0	NULL	light
	11	RemyBastin	remy123@gmail.com	\$2b\$12\$FzFyM2J0tG0djdZ2alheAIV.VeRjgCh...	NULL	0	NULL	light
	12	Akash123@gmail	Akash123@gmail.com	\$2b\$12\$8vMvYTi69w9q7uZtSBcxIOEQf6oENbM...	NULL	0	NULL	light
	13	SivaNithin	siva123@gmail.com	\$2b\$12\$17b7J3x0EryQEC26qJ12p.mqr.1K.59H6...	NULL	0	NULL	light
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

users 1 x

Form Editor

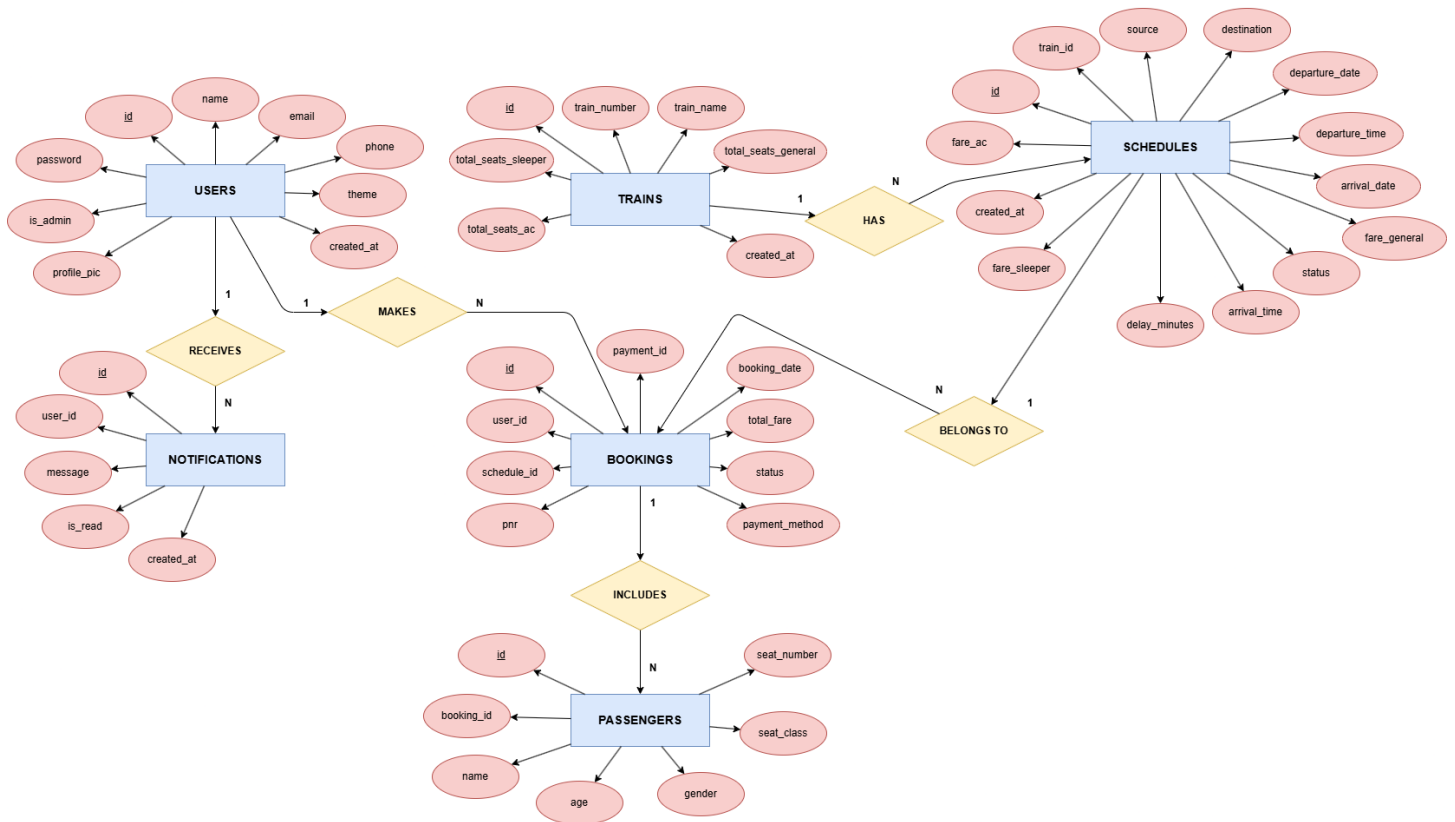
Field Types

Query Stats

Apply

Revert

Railway System Database ER Diagram



Railway Reservation Management System

