

DBMS MINI PROJECT

RAILWAY DATABASE MANAGEMENT SYSTEM

5TH SEMESTER, ISE

SAI VIDYA INSTITUTE OF TECHNOLOGY

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ABSTRACT

- RAILWAY DATABASE MANAGEMENT SYSTEM, the purpose of this management system is to assist any railway business with ease of access information about their bookings when required without going through the hassle of manual bookings. Railway Database Management System gives businesses an environment where they can easily check and update the latest information about their bookings. They can manage and automatically provide the user with ticket info via email. The Railway Database Management System is aimed to provide the relevant information about the tickets and bookings of a railway database and eliminate manual counters and bookings.

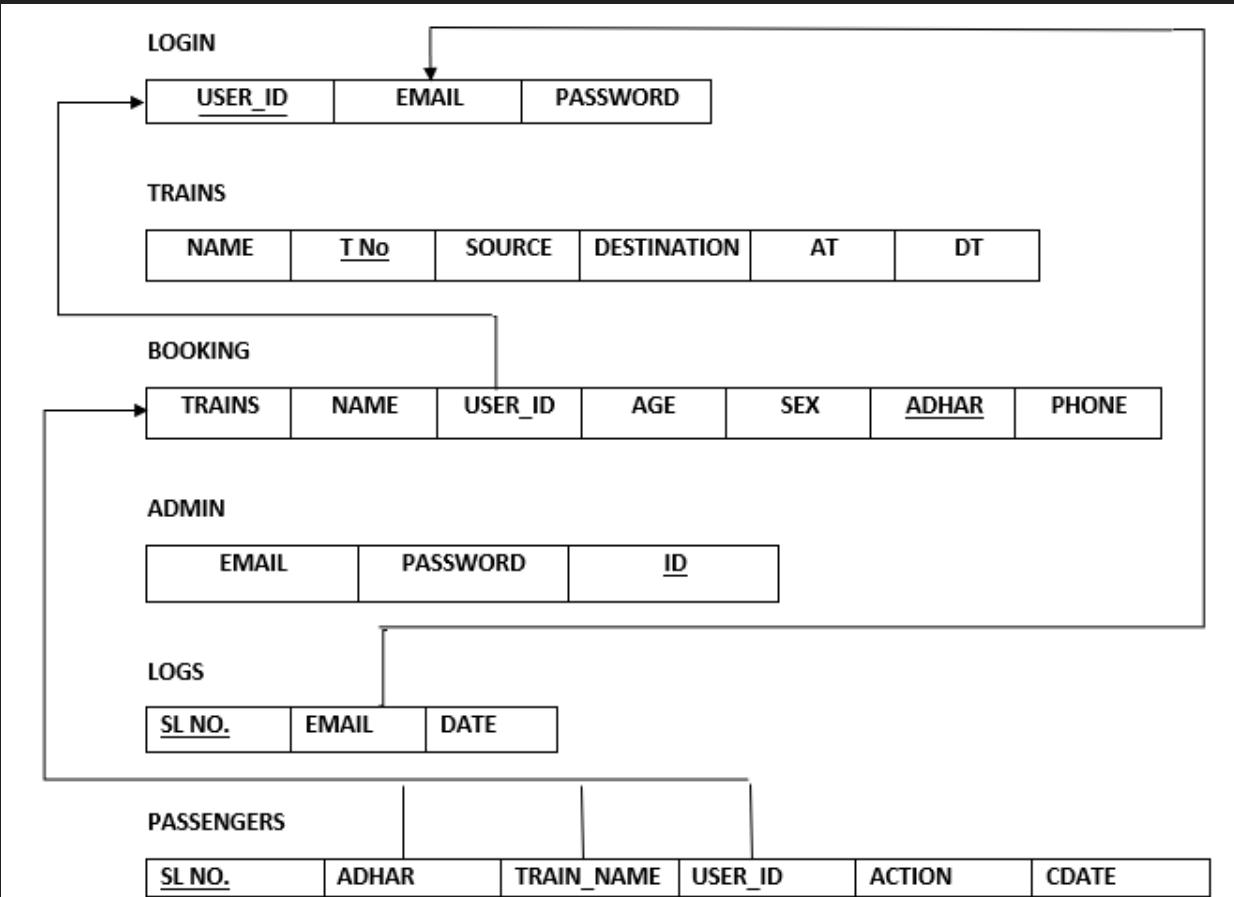
PROBLEM

- Existing systems for Railway Database Management are very inefficient and mostly involve a lot of manual work to be done by the manager of the system. With this project, we want to automate as many tasks as possible using the available technology and the internet

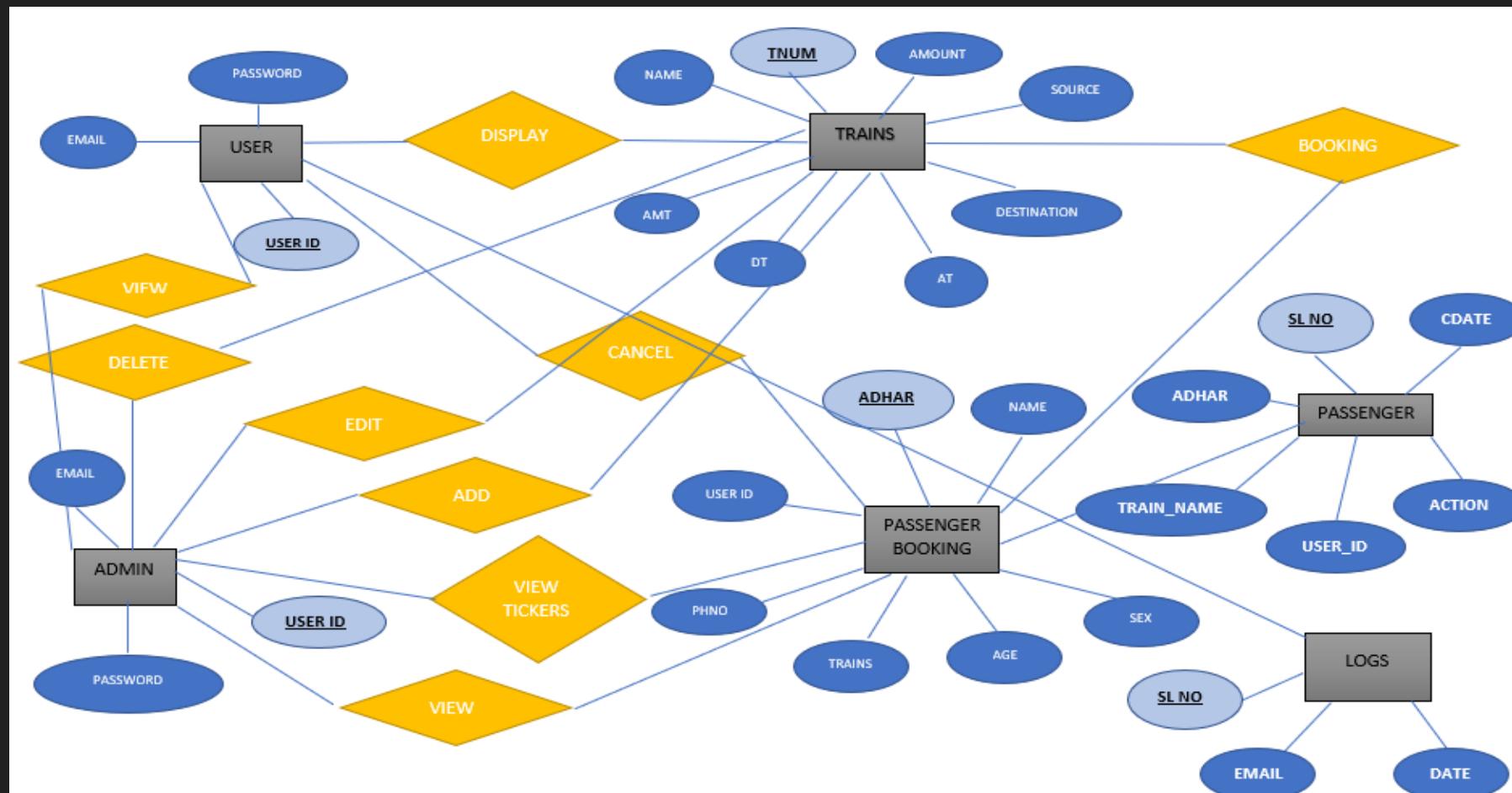
OBJECTIVE

○ The main objective of this project is to determine how an interactive Railway Database management system helps in the smooth functioning of a Railway compared to traditional Railway database management, by digitizing all the records and transacting everything on a Computer rather than on paper. This project is a two-tier architecture application

SCHEMA DIAGRAM



ER DIAGRAM



WEB PAGES

- adminbooking.php
- adminadd.php
- admindelete.php
- adminedit.php
- adminlogin.php
- adminlogout.php
- adminnavigation.php
- admintrains.php
- booking.php
- cancelticket.php
- adminregistrations.php
- display.php
- login.php
- logout.php
- navigate.php
- register.php
- ticket1.php

USER REGISTER



User Register

USER ID

Enter User-id

EMAIL

Enter Email-id

PASSWORD

Enter your password

CONFIRM PASSWORD

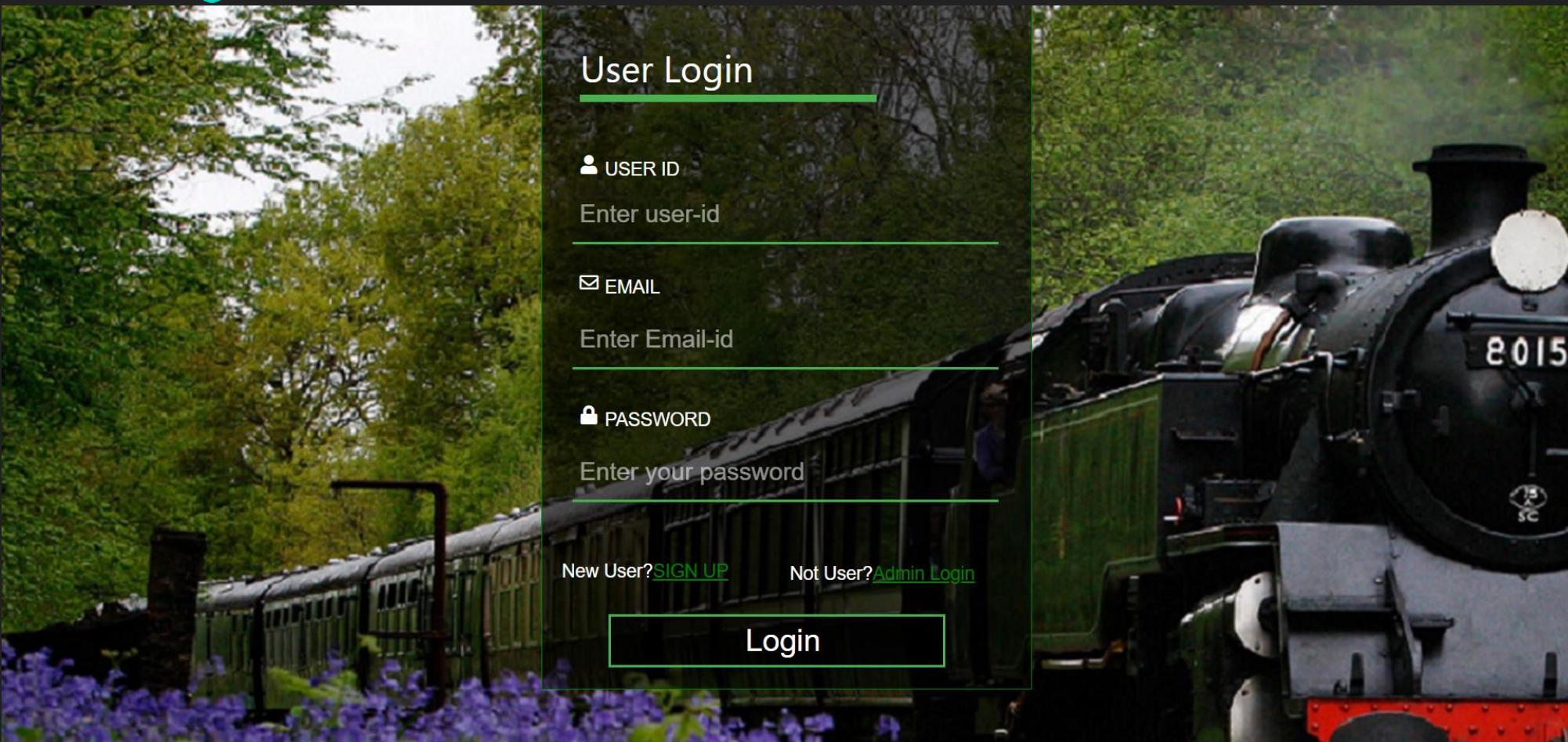
Renter password

Have an account? [LOGIN](#)

Register



USER LOGIN



User Login

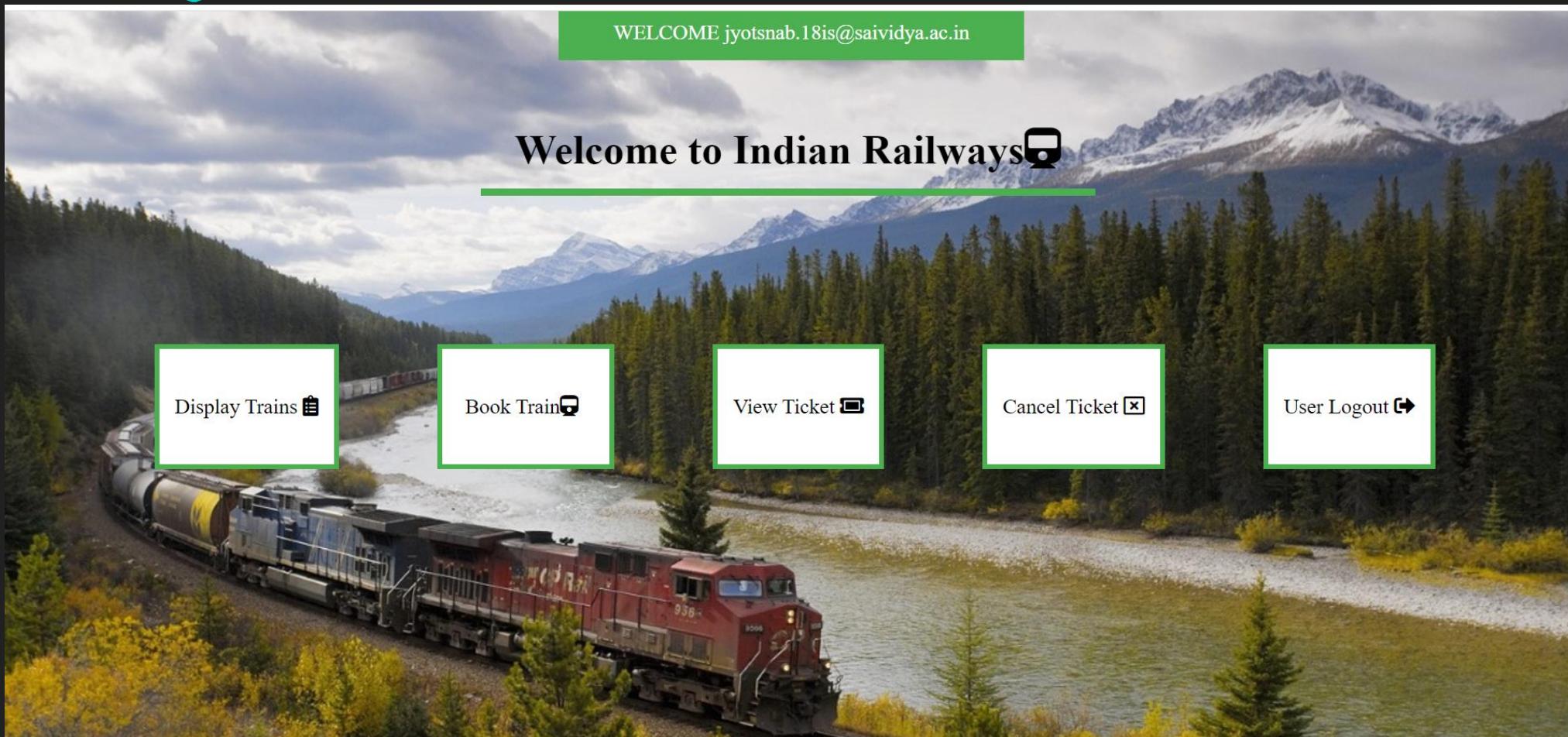
USER ID
Enter user-id

EMAIL
Enter Email-id

PASSWORD
Enter your password

New User? [SIGN UP](#) Not User? [Admin Login](#)

USER NAVIGATION



The background of the user interface features a photograph of a red locomotive pulling several tank cars along a riverbank, surrounded by dense green forests and majestic snow-capped mountains under a cloudy sky.

WELCOME jyotsnab.18is@saividya.ac.in

Welcome to Indian Railways

Display Trains 

Book Train 

View Ticket 

Cancel Ticket 

User Logout 

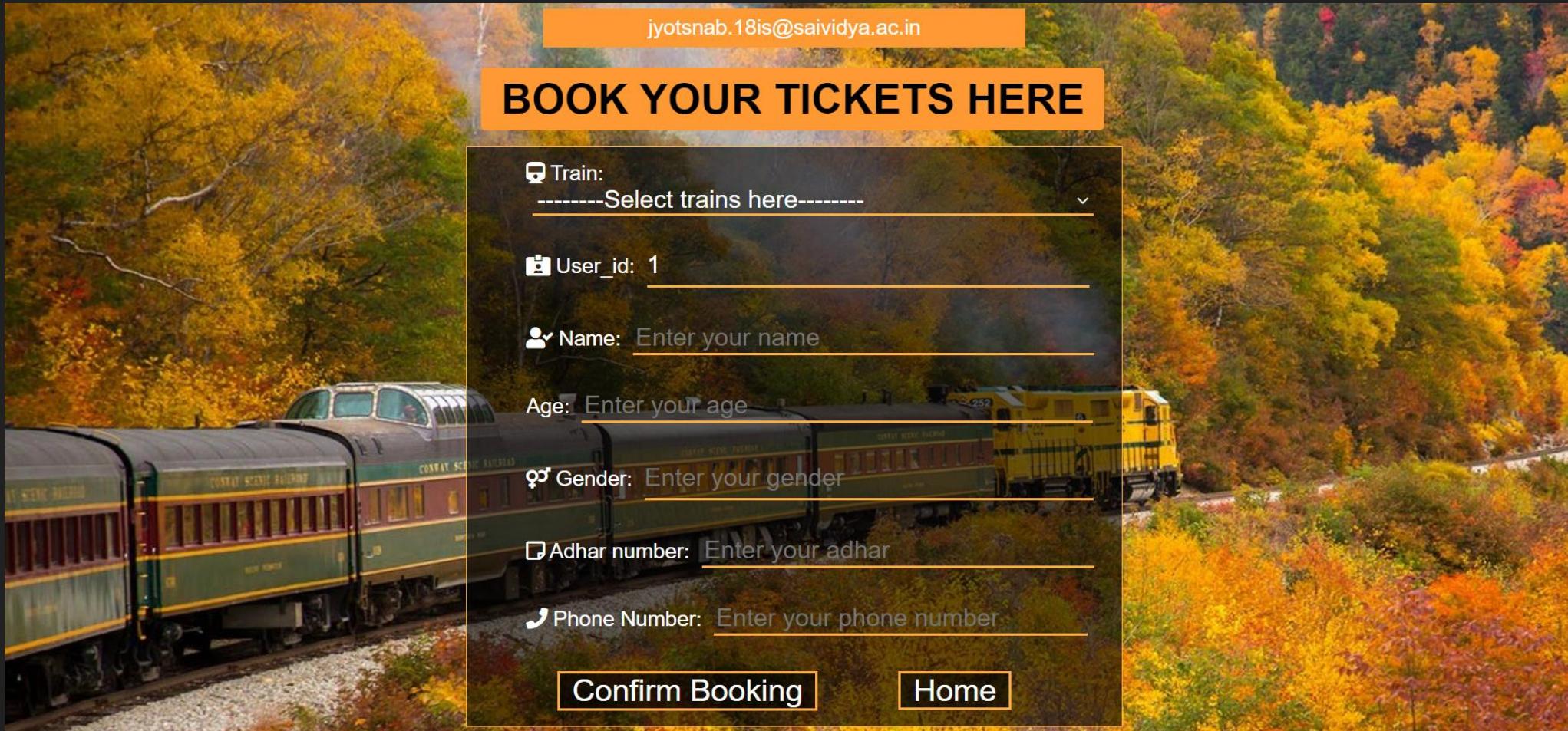
TRAINS DISPLAY

TRAINS AVAILABLE

TRAIN NAME	TRAIN NUMBER	STARTING POINT	DESTINATION	ARRIVAL TIME	DEPARTURE TIME
Rajdhani Express	1234	Mumbai central	Mumbai	2020-12-22 07:30:00	2020-12-22 21:00:00
Duron Express	1345	Mumbai central	Ernakulum	2020-12-23 13:00:00	2020-12-24 05:30:00
Geeta Express	1456	CST	Kolkata	2020-12-24 06:00:00	2020-12-24 16:30:00
Mysore Express	3476	Talguppa	Mysore Jn	2020-12-26 16:00:00	2020-11-27 05:30:00
Garib rath	4561	rajasthan	Jammu tawi	2020-12-25 20:00:00	2020-11-26 06:00:00
Rani-Chennamma	6544	Rajasthan	Mumbai	2020-12-23 06:00:00	2020-12-24 23:00:00

[CONTINUE BOOKING](#)[HOME](#)

TRAIN BOOKING



jyotsnab.18is@saividya.ac.in

BOOK YOUR TICKETS HERE

Train:

User_id:

Name:

Age:

Gender:

Adhar number:

Phone Number:

[Confirm Booking](#) [Home](#)

TICKET VIEW

[VIEW TICKETS](#)

Adhar: 12235

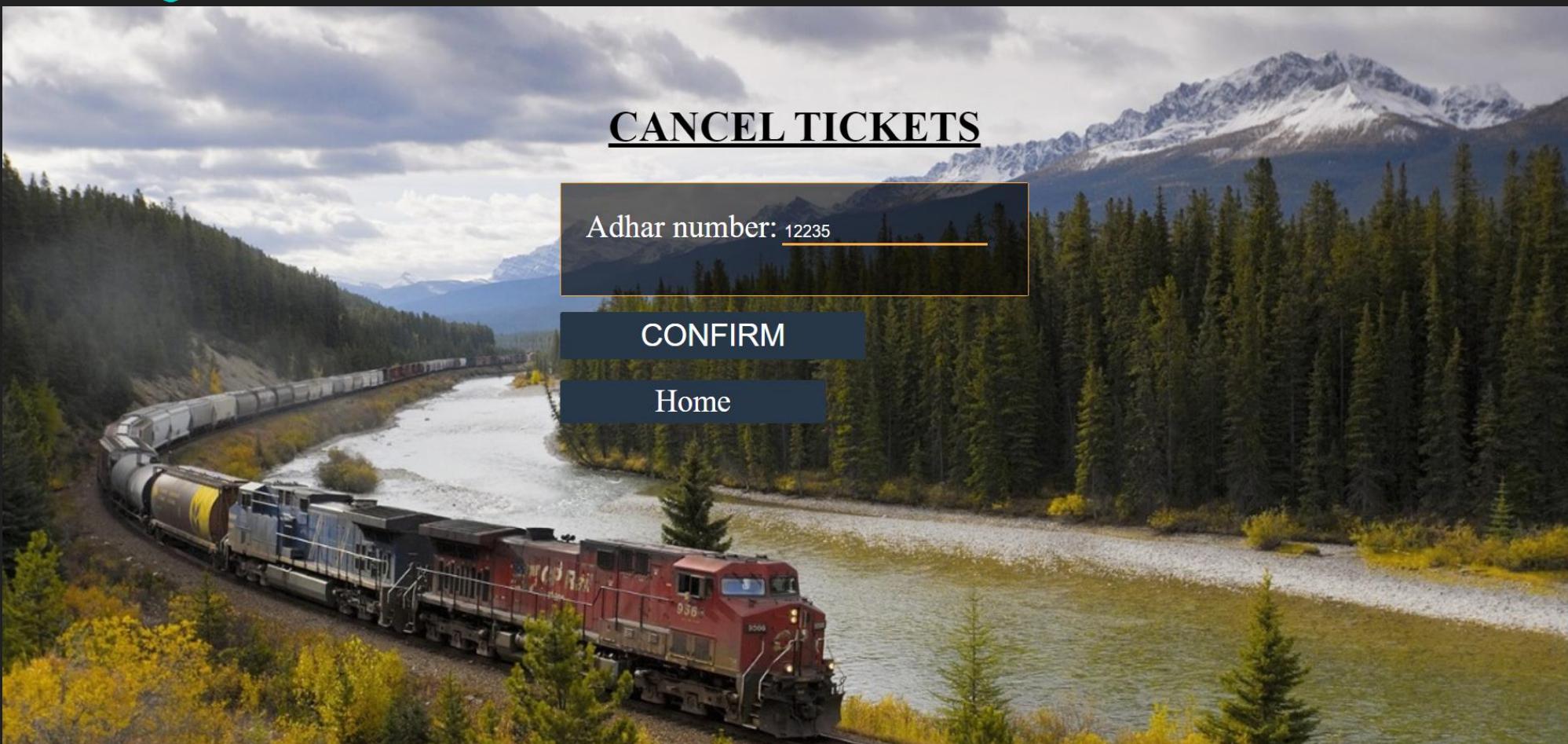
[CONFIRM](#)

[HOME](#)

NAME	AGE	GENDER	ADHAR NUMBER	PHONE	TRAIN BOOKED	EMAIL
Jyotsna Bellary	12	female	12235	6366168371	Rani-Chennamma	jyotsnab.18is@saividya.ac.in



CANCEL TICKET



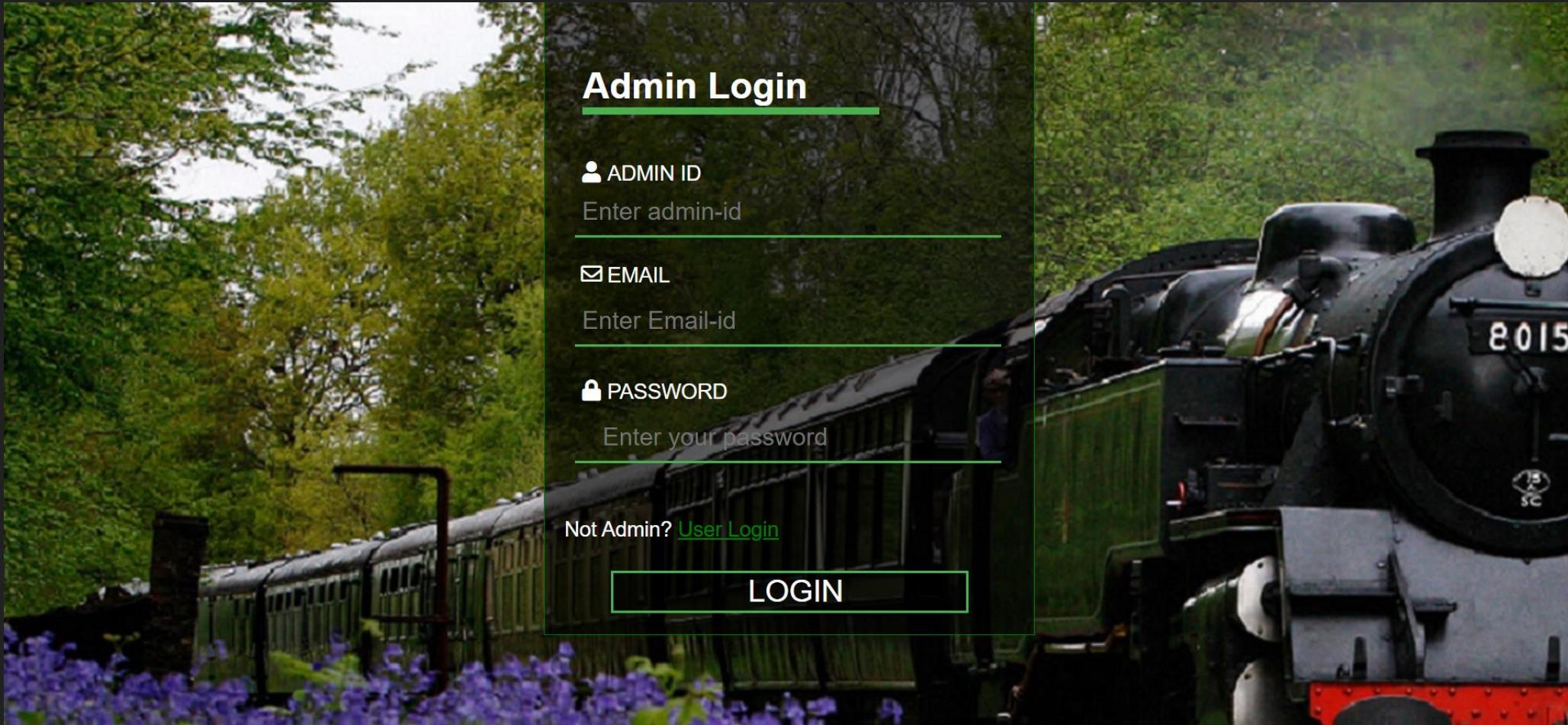
CANCEL TICKETS

Adhar number: 12235

CONFIRM

Home

ADMIN LOGIN



Admin Login

ADMIN ID
Enter admin-id

EMAIL
Enter Email-id

PASSWORD
Enter your password

Not Admin? [User Login](#)

LOGIN

ADMIN NAV

WELCOME jyotsna@gmail.com

Welcome to Indian Railways

trains display 

Passengers bookings 

Passengers registration 

LOGOUT 



ADMIN TRAINS

TRAINS AVAILABLE

TRAIN NAME	TRAIN NUMBER	STARTING POINT	DESTINATION	ARRIVAL TIME	DEPARTURE TIME
Rajdhani Express	1234	Mumbai central	Mumbai	2020-12-22 07:30:00	2020-12-22 21:00:00
Duron Express	1345	Mumbai central	Ernakulum	2020-12-23 13:00:00	2020-12-24 05:30:00
Geeta Express	1456	CST	Kolkata	2020-12-24 06:00:00	2020-12-24 16:30:00
Mysore Express	3476	Talguppa	Mysore Jn	2020-12-26 16:00:00	2020-11-27 05:30:00
Garib rath	4561	rajasthan	Jammu tawi	2020-12-25 20:00:00	2020-11-26 06:00:00
Rani-Chennamma	6544	Rajasthan	Mumbai	2020-12-23 06:00:00	2020-12-24 23:00:00

[Add New](#)[Home](#)[Edit](#)[Delete](#)

ADMINADD

Add Train Info

TRAIN NAME: _____

TRAIN NUMBER: _____

STARTING POINT: _____

DESTINATION: _____

ARRIVAL TIME: _____

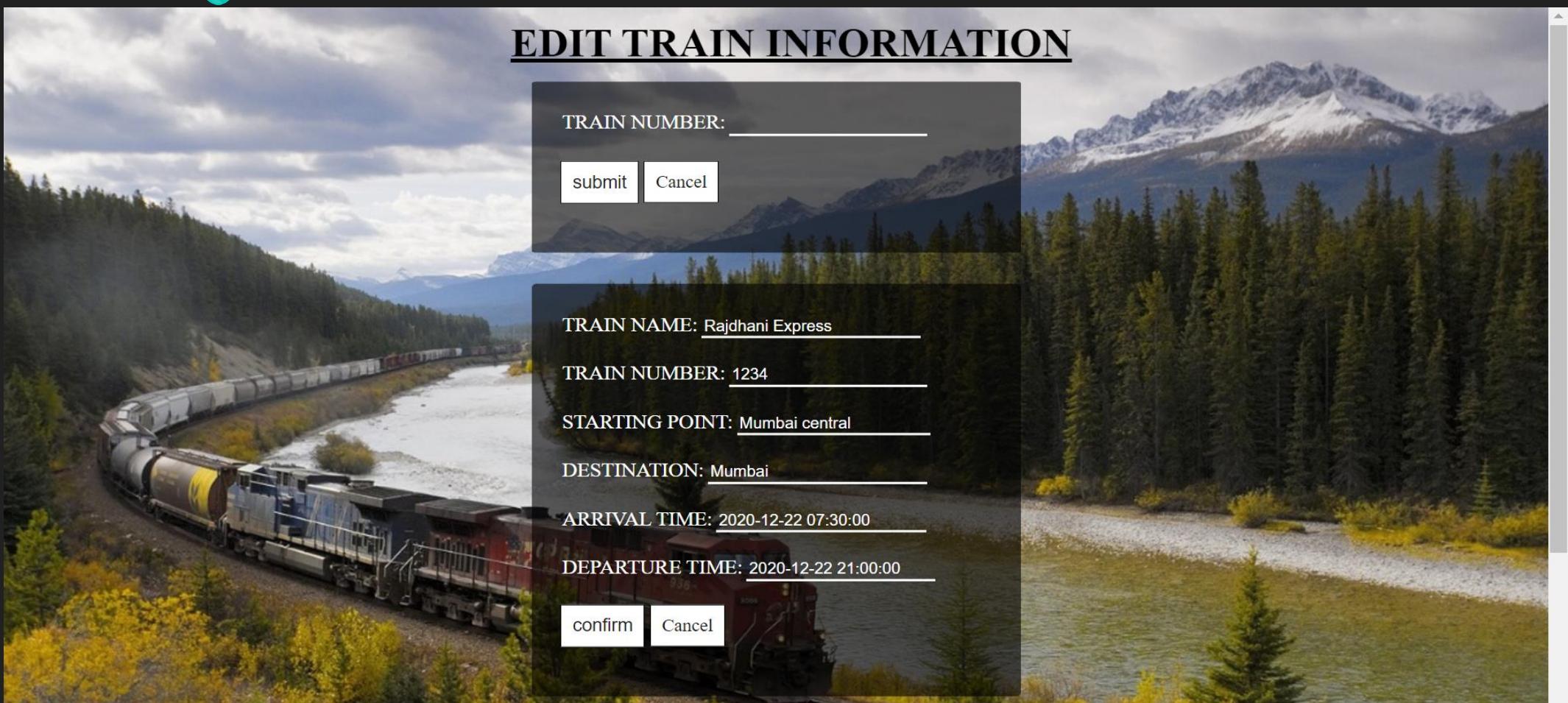
DEPARTURE TIME: _____

submit

Cancel



ADMINEDIT



EDIT TRAIN INFORMATION

TRAIN NUMBER:

TRAIN NAME: Rajdhani Express

TRAIN NUMBER: 1234

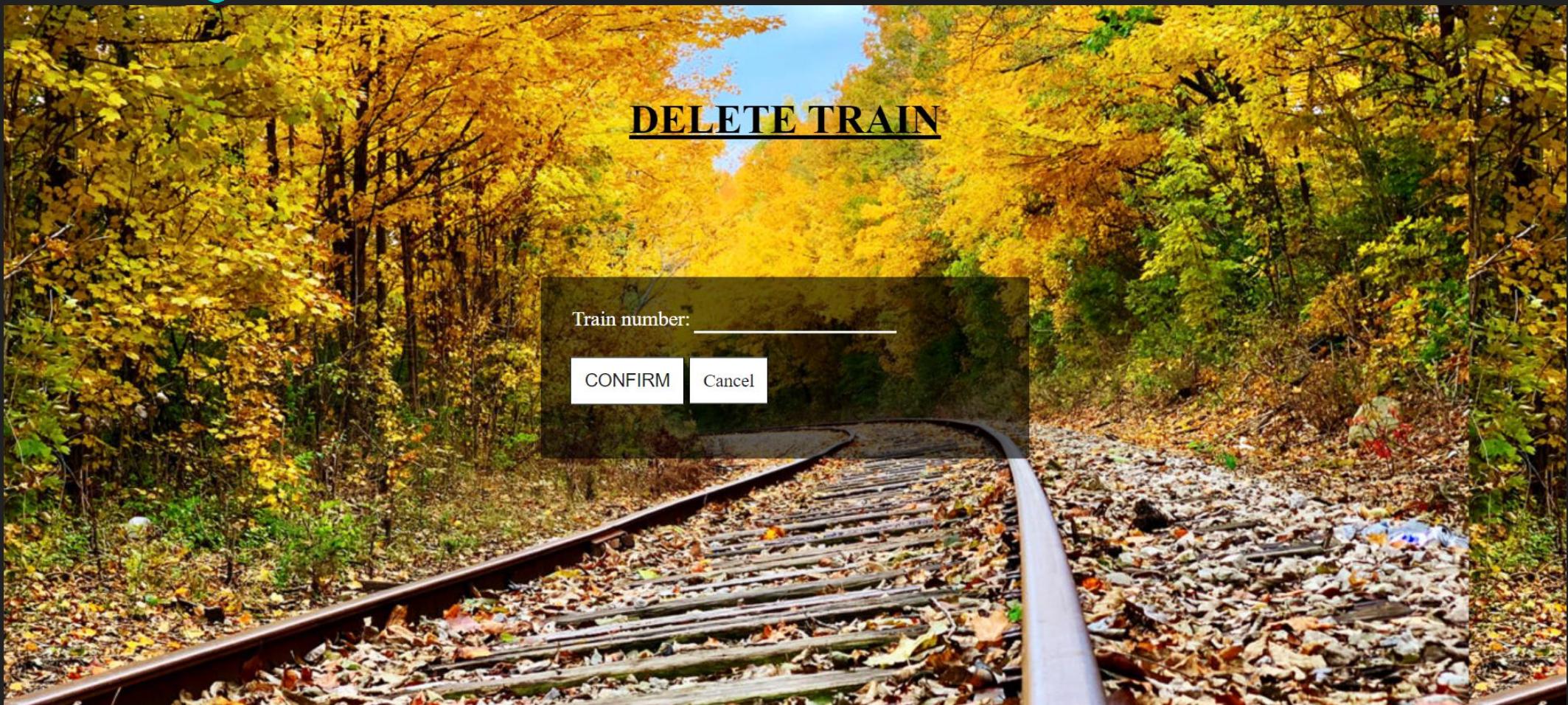
STARTING POINT: Mumbai central

DESTINATION: Mumbai

ARRIVAL TIME: 2020-12-22 07:30:00

DEPARTURE TIME: 2020-12-22 21:00:00

DELETE TRAIN



ADMIN BOOKING

PASSENGER BOOKINGS

NAME	AGE	GENDER	ADHAR	PHONE	TRAIN BOOKED	EMAIL
Robyn	12	female	1223	9887098767	Rani-Chennamma	jyotsnab.18is@saividya.ac.in
Jyotsna Bellary	12	female	12235	6366168371	Rani-Chennamma	jyotsnab.18is@saividya.ac.in

[Home](#)



PASSENGER REGISTER

PASSENGER REGISTER

SL_no	E-MAIL	USER ID	STATUS	DATE AND TIME
1	jyotsnab.18is@saividya.ac.in	2	CREATED	2021-01-19 13:36:10
2	jyotsnab.18is@saividya.ac.in	2	DELETED	2021-01-19 13:38:32
3	jyotsnab.18is@saividya.ac.in	1	CREATED	2021-01-19 13:46:27

[Home](#)



DATABASE TABLES

- LOGIN
- TRAIN_BOOKED
- ADMLOG
- TRAIN_DISPLAY
- LOGS
- PASSENGERS

TRIGGERS

The screenshot shows the phpMyAdmin interface for a MySQL database named 'demo'. The left sidebar displays a tree view of databases: 'New', 'demo' (selected), 'New', 'admlog', 'login', 'logs', 'passengers', 'trains_display', 'train_booked', 'information_schema', 'lab1', 'lab2' (selected), 'New', 'customer', 'orders', 'salesman', 'lab5', 'mysql', 'performance_schema', 'phpmyadmin', and 'test'. The main panel is titled 'Triggers' and lists four triggers:

Name	Table	Action	Time	Event
add_passenger	train_booked	Edit Export Drop	AFTER	INSERT
delete_passenger	train_booked	Edit Export Drop	BEFORE	DELETE
delete_registration	login	Edit Export Drop	BEFORE	DELETE
register	login	Edit Export Drop	AFTER	INSERT

Below the table, there are buttons for 'Check all', 'With selected:', 'Export', and 'Drop'. A 'New' button and an 'Add trigger' link are located at the bottom of the triggers section.

At the bottom of the screen, the Windows taskbar shows various open applications including File Explorer, WhatsApp, Microsoft Edge, Google Chrome, and others. The system tray indicates the date and time as 19-01-2021 17:12.

PROCEDURES

phpMyAdmin

Server: 127.0.0.1 » Database: demo

Structure SQL Search Query Export Import Operations Privileges Routines More

Your SQL query has been executed successfully.
6 rows affected by the last statement inside the procedure.

CALL `getLogin`();

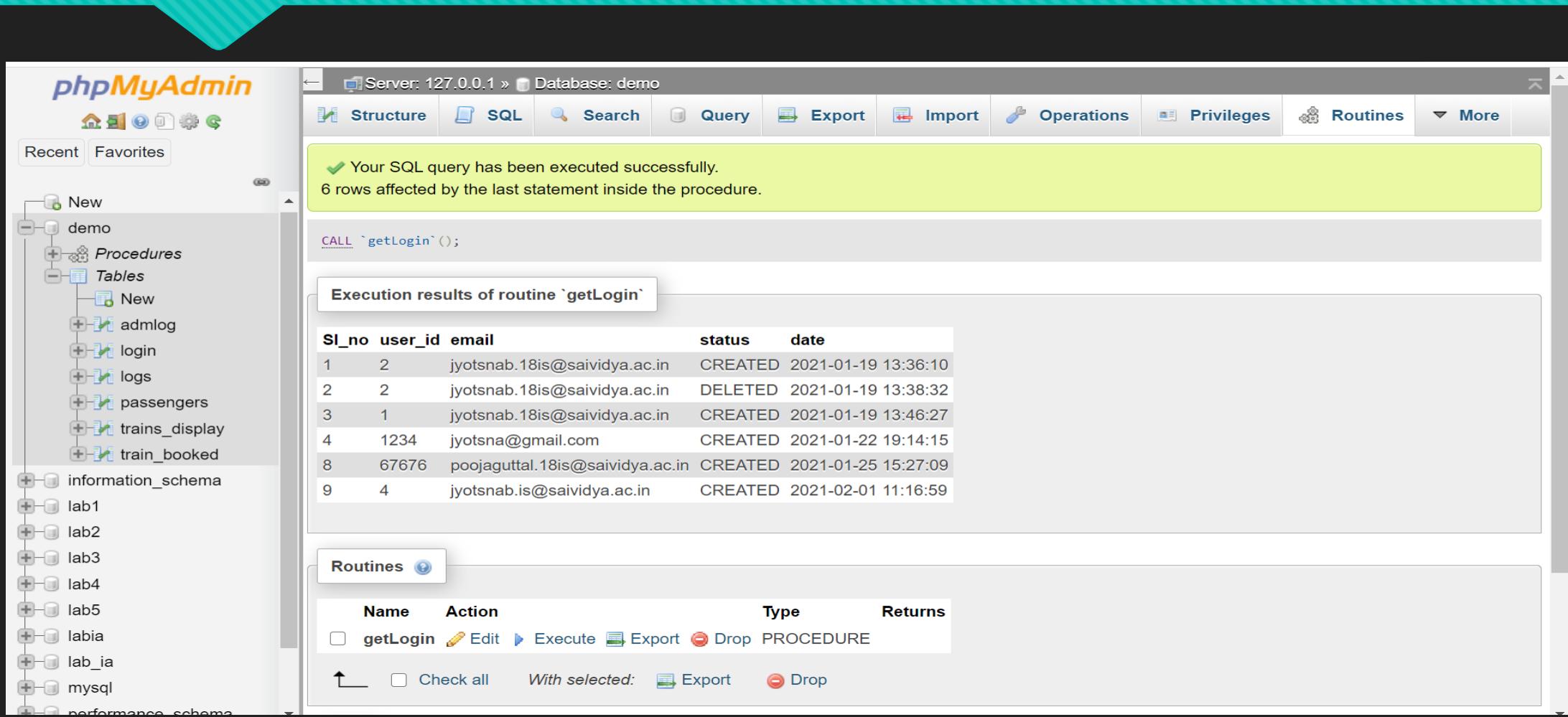
Execution results of routine `getLogin`

SI_no	user_id	email	status	date
1	2	jyotsnab.18is@saividya.ac.in	CREATED	2021-01-19 13:36:10
2	2	jyotsnab.18is@saividya.ac.in	DELETED	2021-01-19 13:38:32
3	1	jyotsnab.18is@saividya.ac.in	CREATED	2021-01-19 13:46:27
4	1234	jyotsna@gmail.com	CREATED	2021-01-22 19:14:15
8	67676	poojaguttal.18is@saividya.ac.in	CREATED	2021-01-25 15:27:09
9	4	jyotsnab.is@saividya.ac.in	CREATED	2021-02-01 11:16:59

Routines

Name	Action	Type	Returns
getLogin	Edit Execute Export Drop	PROCEDURE	

Check all With selected: Export Drop



train_booked

DBMS lab Experiment 2 localhost / 127.0.0.1 / demo / train_booked How can I access the MySQL con

localhost/phpmyadmin/sql.php?server=1&db=demo&table=train_booked&pos=0

Server: 127.0.0.1 » Database: demo » Table: train_booked

Browse Structure SQL Search Insert Export Import Privileges Operations More

Showing rows 0 - 1 (2 total, Query took 0.0101 seconds.)

SELECT * FROM `train_booked`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	name	age	gender	adhar	phone	train_booked	user_id
<input type="checkbox"/>	Robyn	12	female	1223	9887098767	Rani-Chennamma	1
<input type="checkbox"/>	Jyotsna Bellary	12	female	12235	6366168371	Rani-Chennamma	1

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Console mark this SQL query

Type here to search

17:12 19-01-2021

2

login

DBMS lab Experiment 2 localhost / 127.0.0.1 / demo / log How can I access the MySQL com

localhost/phpmyadmin/sql.php?server=1&db=demo&table=login&pos=0

phpMyAdmin

Server: 127.0.0.1 » Database: demo » Table: login

Browse Structure SQL Search Insert Export Import Privileges Operations More

Showing rows 0 - 0 (1 total, Query took 0.0014 seconds.)

SELECT * FROM `login`

Show all Number of rows: 25 Filter rows: Search this table

+ Options

	id	email	password
<input type="checkbox"/>	1	jyotsnab.18is@saividya.ac.in	12345678

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Console

Type here to search

17:12 ENG 19-01-2021

The screenshot shows the phpMyAdmin interface for a MySQL database named 'demo'. The left sidebar lists various databases and tables. The 'login' table under the 'demo' database is selected. The main panel displays the structure of the 'login' table with columns 'id', 'email', and 'password'. A single row of data is shown: id=1, email=jyotsnab.18is@saividya.ac.in, password=12345678. Below the table, there are options to edit, copy, or delete the row, and to export the data. At the bottom, there are links for printing, copying to clipboard, exporting, displaying a chart, and creating a view. The status bar at the bottom right shows the date and time.

admlog

DBMS lab Experiment 2 localhost / 127.0.0.1 / demo / admlog How can I access the MySQL com... +

localhost/phpmyadmin/sql.php?server=1&db=demo&table=admlog&pos=0

phpMyAdmin

Recent Favorites

Server: 127.0.0.1 » Database: demo » Table: admlog

Browse Structure SQL Search Insert Export Import Privileges Operations More

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

SELECT * FROM `admlog`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	id	email	password
<input type="checkbox"/>	1	poojaguttal@gmail.com	poojaguttal
<input type="checkbox"/>	2	jyotsna@gmail.com	jyotsnabellary
<input type="checkbox"/>	3	srima@gmail.com	srimashetty

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

localhost/phpmyadmin/sql.php?server=1&db=demo&table=admlog&pos=0

Type here to search

17:11 19-01-2021

train_display

phpMyAdmin

Server: 127.0.0.1 » Database: demo » Table: trains_display

Browse Structure SQL Search Insert Export Import Privileges Operations More

Showing rows 0 - 5 (6 total, Query took 0.0008 seconds.)

SELECT * FROM `trains_display`

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	train_name	train_number	starting_point	destination	arrival	departure
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Rajdhani Express	1234	Mumbai central	Mumbai	2020-12-22 07:30:00	2020-12-22 21:00:00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Duron Express	1345	Mumbai central	Ernakulam	2020-12-23 13:00:00	2020-12-24 05:30:00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Geeta Express	1456	CST	Kolkata	2020-12-24 06:00:00	2020-12-24 16:30:00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Mysore Express	3476	Talguppa	Mysore Jn	2020-12-26 16:00:00	2020-11-27 05:30:00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Garib rath	4561	rajasthan	Jammu tawi	2020-12-25 20:00:00	2020-11-26 06:00:00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	Rani-Chennamma	6544	Rajasthan	Mumbai	2020-12-23 06:00:00	2020-12-24 23:00:00

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

logs

The screenshot shows the phpMyAdmin interface for a MySQL database named 'demo'. The 'logs' table is selected. The table structure includes columns: SI_no, user_id, email, status, and date. Three rows are displayed:

SI_no	user_id	email	status	date
1	2	jyotsnab.18is@saividya.ac.in	CREATED	2021-01-19 13:36:10
2	2	jyotsnab.18is@saividya.ac.in	DELETED	2021-01-19 13:38:32
3	1	jyotsnab.18is@saividya.ac.in	CREATED	2021-01-19 13:46:27

Below the table, there are buttons for Edit, Copy, Delete, and Export. The bottom navigation bar includes Print, Copy to clipboard, Export, Display chart, Create view, and a Console tab.

passengers

DBMS lab Experiment 2 localhost / 127.0.0.1 / demo / pa... How can I access the MySQL com... +

localhost/phpmyadmin/sql.php?server=1&db=demo&table=passenger&pos=0

Server: 127.0.0.1 » Database: demo » Table: passengers

Browse Structure SQL Search Insert Export Import Privileges Operations More

Showing rows 0 - 5 (6 total, Query took 0.00007 seconds.)

SELECT * FROM `passenger`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	SI_no	adhar	user_id	train_name	action	Date_Time
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	1	1223	3	Duron Express	BOOKED	2021-01-19 10:29:52
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	2	1223	3	Duron Express	CANCELLED	2021-01-19 10:37:16
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	3	1223	3	Geeta Express	BOOKED	2021-01-19 11:49:01
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	4	1223	3	Geeta Express	CANCELLED	2021-01-19 11:53:27
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	6	1223	1	Rani-Chennamma	BOOKED	2021-01-19 13:47:19
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	7	12235	1	Rani-Chennamma	BOOKED	2021-01-19 14:09:31

Check all With selected:

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Type here to search

17:12 19-01-2021

CONCLUSION

- The railway database management system provides better functionality for a booking system to be more efficient and reduce manual paperwork in order to automate all possible tasks. For implementing this system, HTML, CSS, PhP and Xampp are used. The system comprises of features like, management of users, management of booking, automated ticket generation and booking or cancelling of tickets.

SCOPE OF EHANCEMENT

Below list shows the future points to be considered:

- 1.Utilize multithreading to manage resources better.
- 2.Use hashing algorithms for storing passwords and avoid plaintext passwords.
- 3.Implement the update feature with hardware integration in the booking system.
- 4.Port the program to other popular operating systems.
- 5.Implement feature to book multiple seats seats at once.

THANK YOU