

Web-based Train reservation system

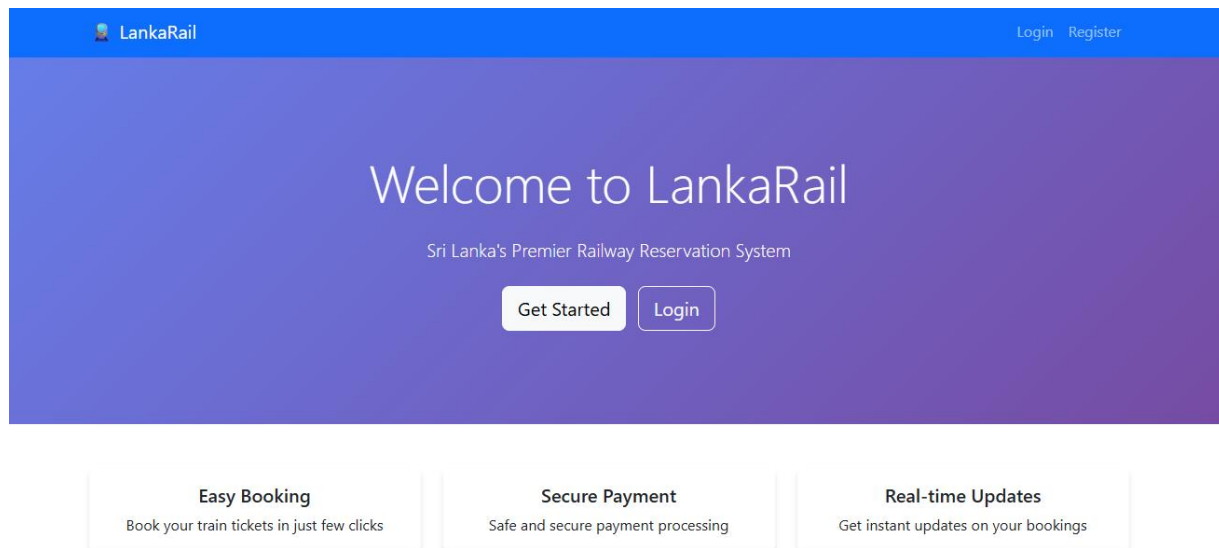
Design by under Software Engineering Module.

15-10-2025

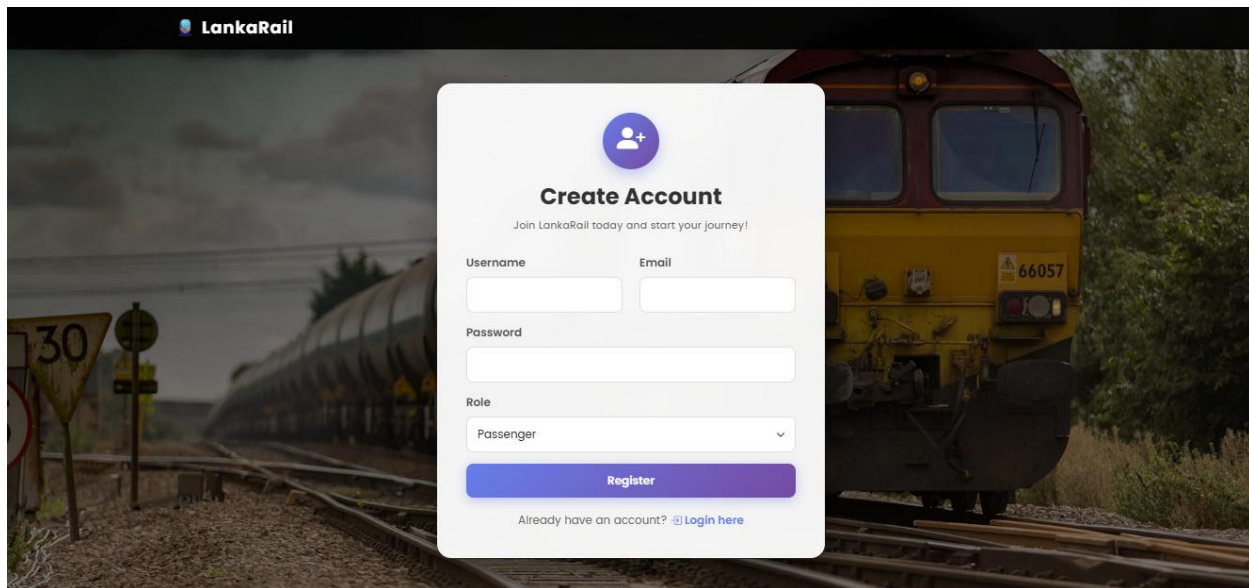
Under this topic I create web pages for users to log their own way. If the user can be passenger, admin member or staff member they can access their own page using their own correct credentials. I designed this login page using two design patterns. Factory & singleton are the design patterns that I use for here. For the backend implementation I used Java language. For the frontend I use bootstrap with HTML for better UI design. For the data connection I used SQL workbench. In here all the validations are working properly. Without any trouble users can login to this page and do their tickets booking, cancellations, view train details etc.

These are User Interfaces that I developed

Dashboard:




Registering Page:



The registering page features a dark header with the LankaRail logo. The background is a photograph of a yellow and maroon train engine (number 66057) on tracks. A white registration form is centered on the page. The form includes a purple icon of a person with a plus sign, the title 'Create Account', and a subtext 'Join LankaRail today and start your journey!'. It has input fields for 'Username' and 'Email', a 'Password' field, and a 'Role' dropdown menu set to 'Passenger'. A purple 'Register' button is at the bottom, followed by a link 'Already have an account? [Login here](#)'.

LankaRail



Create Account

Join LankaRail today and start your journey!

Username

Email

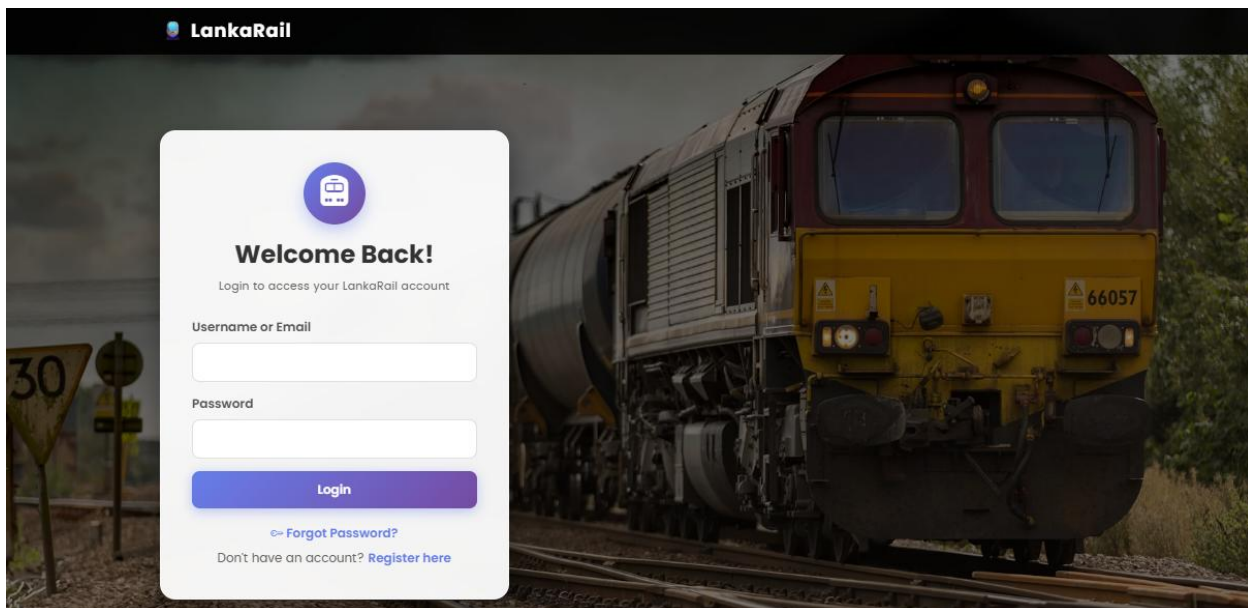
Password

Role
Passenger ▼

[Register](#)


Already have an account? [Login here](#)

Login Page:



The login page features a dark header with the LankaRail logo. The background is the same photograph of the train engine. A white login form is centered on the page. The form includes a purple icon of a train ticket, the title 'Welcome Back!', and a subtext 'Login to access your LankaRail account'. It has input fields for 'Username or Email' and 'Password'. A purple 'Login' button is at the bottom, followed by a link 'Forgot Password?' and another link 'Don't have an account? [Register here](#)'.

LankaRail



Welcome Back!

Login to access your LankaRail account

Username or Email

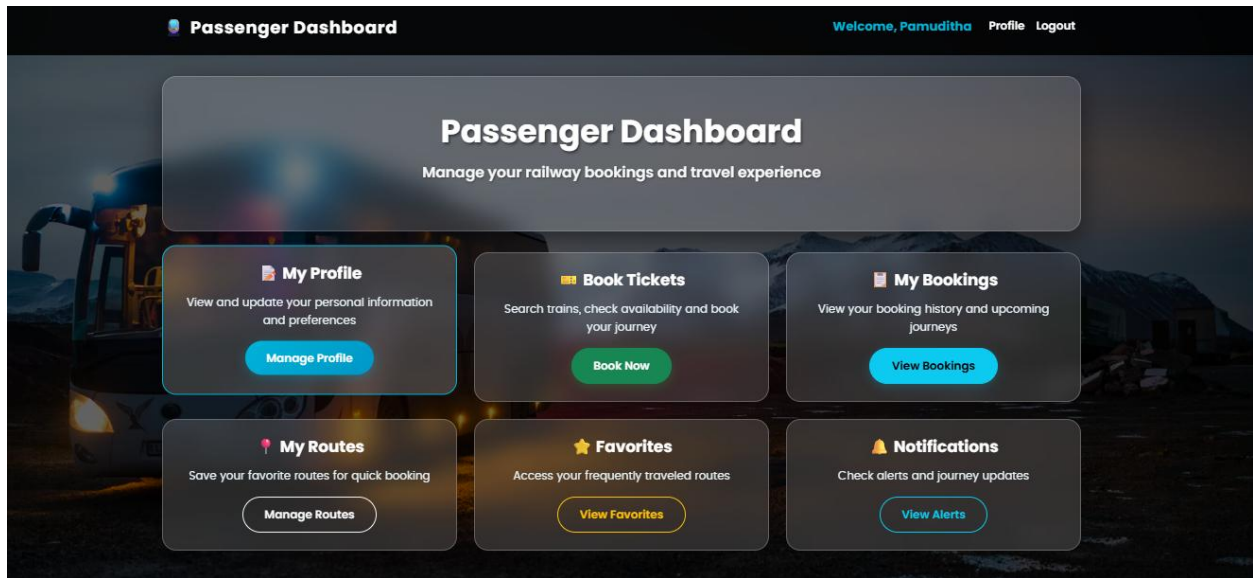
Password

[Login](#)

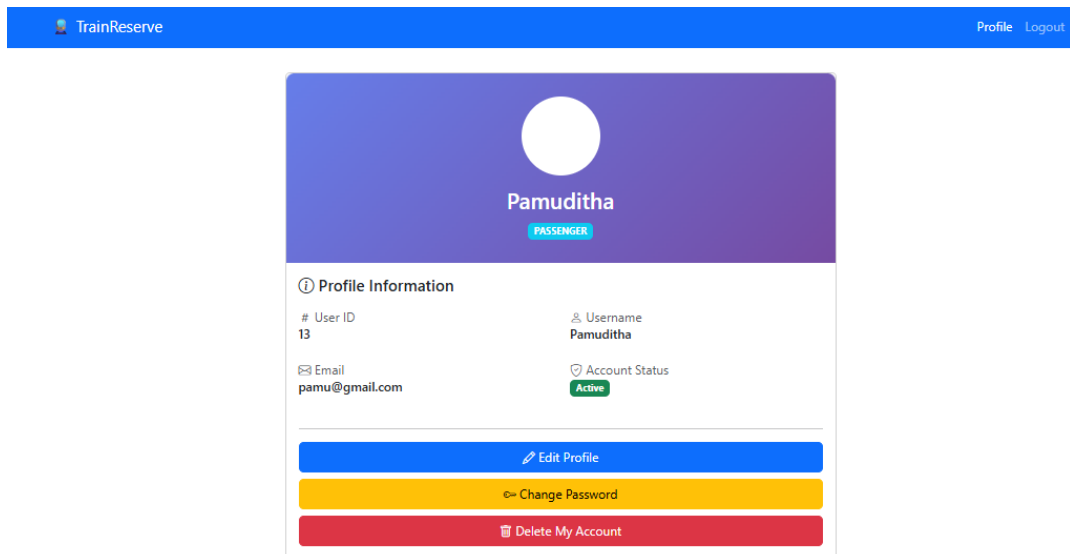
[Forgot Password?](#)

Don't have an account? [Register here](#)

Passenger Dashboard:



Passenger CRUD Operation:



Admin Dashboard:

Admin Dashboard

Welcome, Admin0001

Profile

Logout

Admin Navigation

Dashboard

User Management

My Profile

Admin Dashboard

Total Users

15

Active Users

14

Admins

6

Passengers

5

Quick Actions

Manage Users

System Settings

Admin CRUD Operation:

TrainReserve

Profile

Logout

Admin0001

ADMIN

Profile Information

User ID

16

Username

Admin0001

Email

admin@gmail.com

Account Status

Active

Edit Profile

Change Password

Delete My Account

LankaRail Admin

Profile

Logout

Navigation

Dashboard

User Management

My Profile

User Management

Filter Users

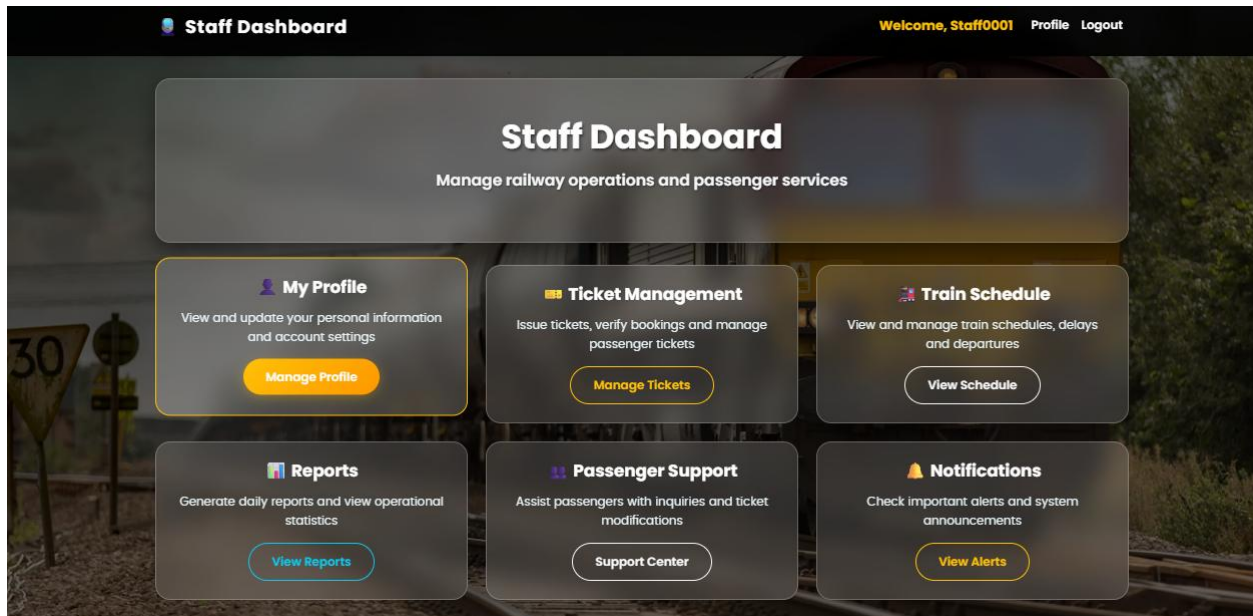
All Roles

All Status

Users List

ID	Username	Email	Role	Status	Actions
1	lt24t01896	lt24t01896@my.sllt.lk	Passenger	Inactive	<div>View</div> <div>Activate</div> <div>Delete</div>
2	JITHM2003	wossm202403@signinid.com	Staff	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
3	john_doe	john@example.com	Passenger	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
4	admin_user	admin@example.com	Aadmin	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
5	staff_member	staff@example.com	Staff	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
6	Dhiman Abeywickrama	dhiman@gmail.com	Passenger	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
7	Nuwan	Nuwan@gmail.com	Admin	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
8	Kamal	kamal@gmail.com	Admin	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
10	test1	test@gmail.com	Passenger	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>
11	admin01	admin1@gmail.com	Admin	Active	<div>View</div> <div>Deactivate</div> <div>Delete</div>

Staff Dashboard:



Staff CRUD Operation:

