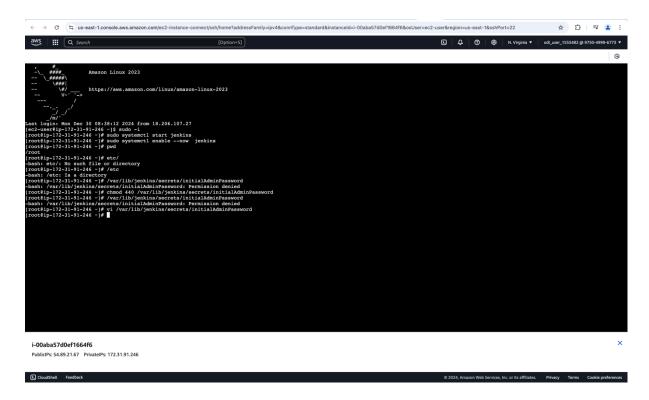
JAVA FSD PHASE 4 PROJECT- Integration and Deployment related Screenshots.

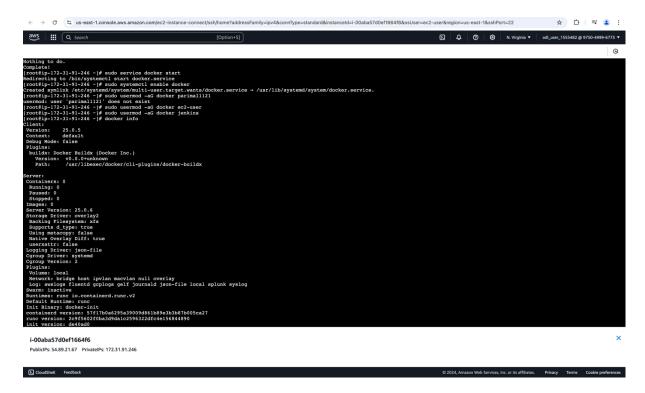
Name: Syed Arfaat

Infrastructure Overview

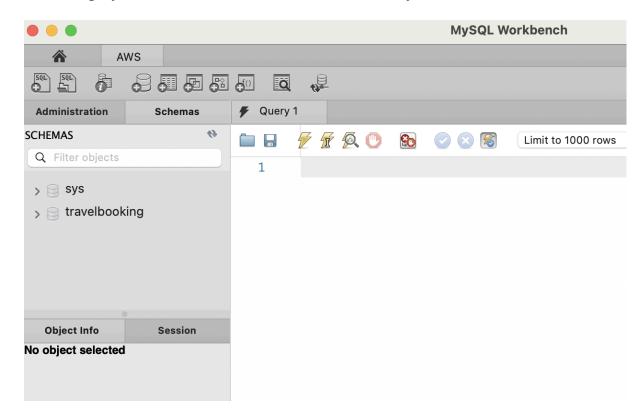
Setting up AWS: Hosting platform that provides scalable infrastructure, leveraging services like EC2 for computation, S3 for storage, and RDS for database management to ensure reliability and performance.



Setting up Docker containers and images in AWS: Enables microservice architecture by running application components in isolated containers, ensuring environment consistency across development and production.

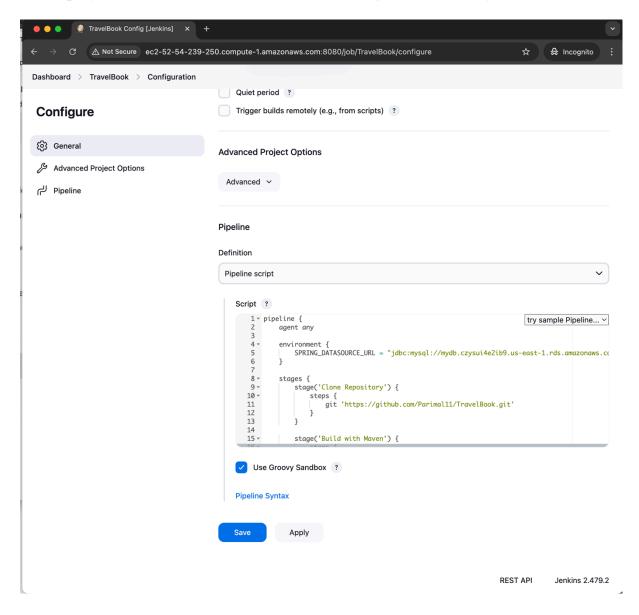


Creating MySQL database on AWS: Manages user, cab, and booking data with a highly available and scalable RDS-hosted MySQL database.



Automation and Deployment

Jenkins in AWS: Automates CI/CD pipelines, ensuring that code changes are built, tested, and deployed seamlessly. Jenkins fetches code from repositories and deploys it to AWS environments, facilitating faster delivery.



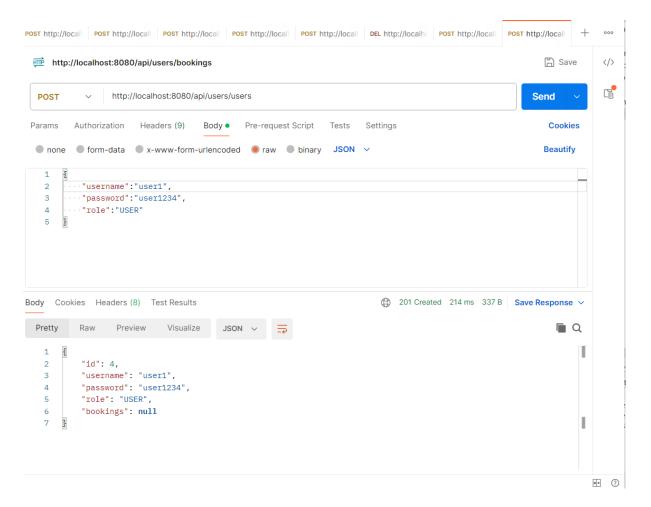
API Endpoints

User Management

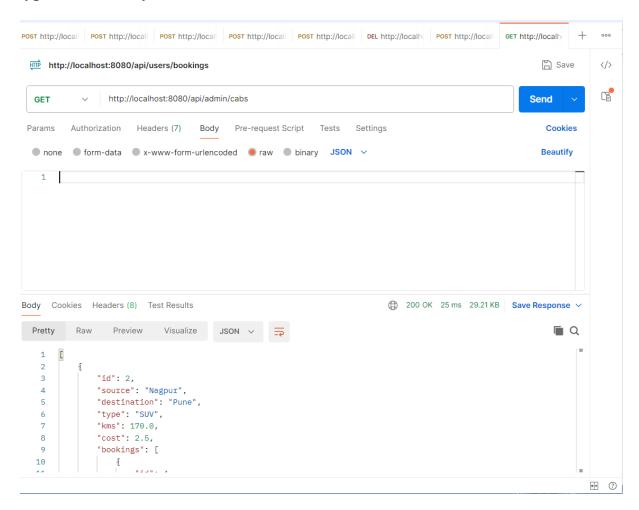
- PostMapping: Users: Registers new users by accepting and validating user details like name, email, and contact information.
- GetMapping: Users: Retrieves registered user details, including role-based filtering for administrative tasks.

Cab Management

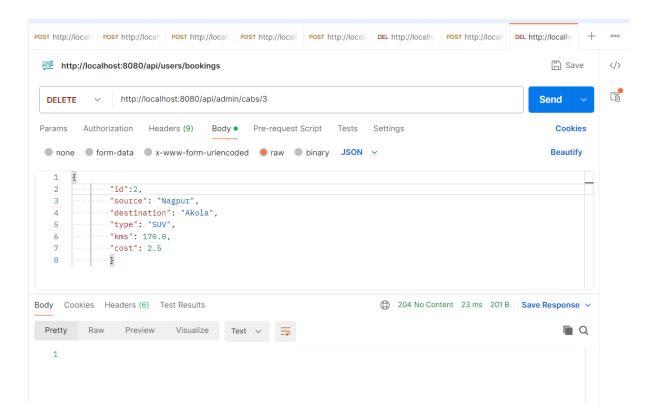
PostMapping: Cabs: Adds new cabs, allowing admins to register details like model, license number, and driver information.



GetMapping: Cabs: Fetches available cab details with optional filters for type, availability, and location.

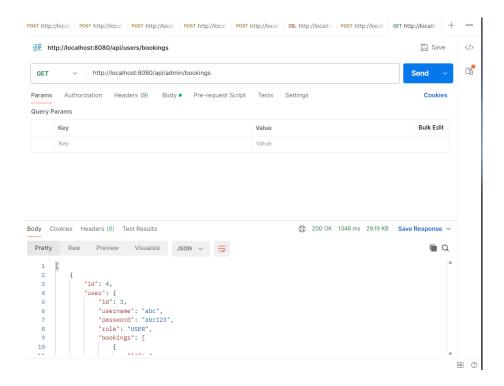


DeleteMapping: Cabs: Removes decommissioned or unavailable cabs from the system.

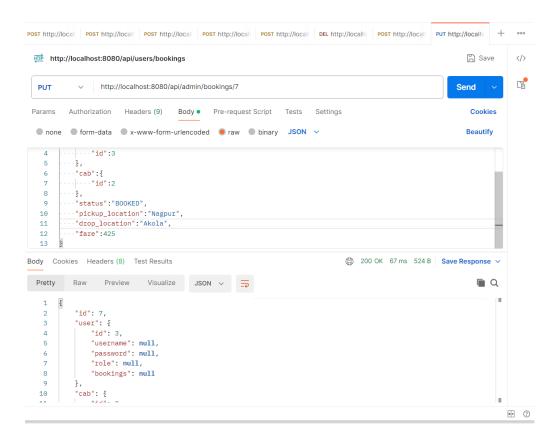


Booking Management

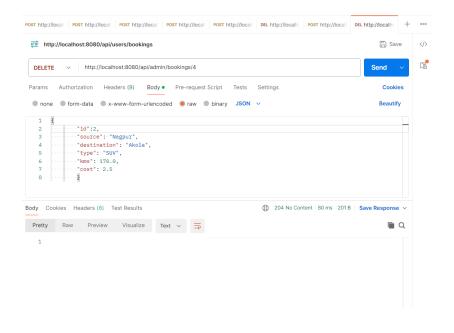
• GetMapping: Booking: Retrieves booking details based on criteria like user ID or booking status.



PutMapping: Bookings: Updates booking details such as trip schedules or status modifications.



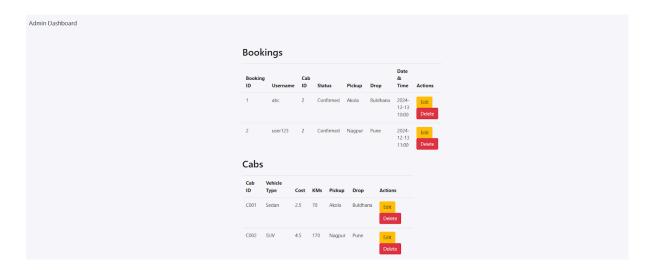
• DeleteMapping: Bookings: Deletes outdated or invalid bookings to maintain system accuracy.



Frontend Features

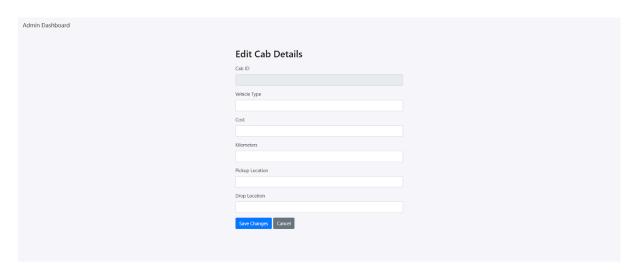
Admin Dashboard

• A centralized control panel for managing users, cabs, and bookings. It includes options to add, edit, or delete resources.

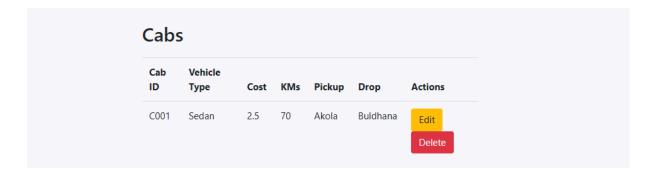


Cab Operations

• Edit Cab: Updates cab information, including driver assignments and availability.

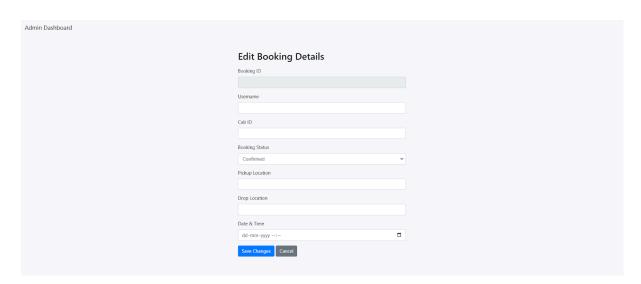


• Delete Cabs: Simplifies the removal of cabs directly from the admin interface.



Booking Operations

• Edit Booking: Allows changes to trip schedules, drivers, or booking statuses.

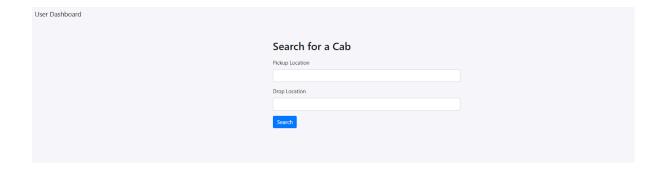


• Delete Bookings: Streamlines the process of removing invalid bookings via the admin interface.



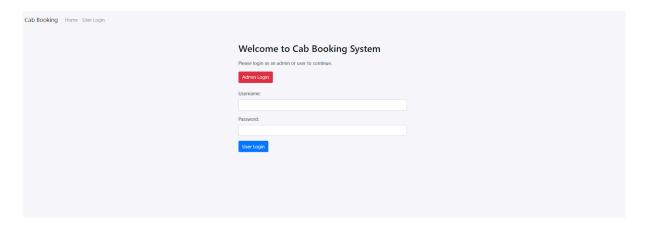
User Dashboard

• Provides customers with tools to search for available cabs and book rides effortlessly.



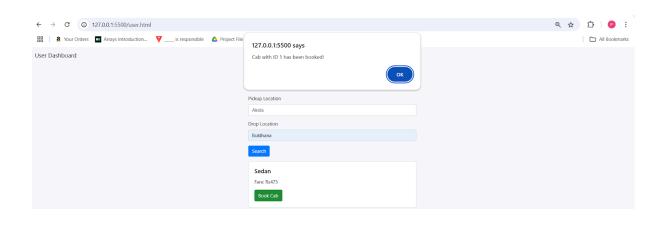
Authentication

• Login Page: Ensures secure access for users and admins, with role-based permissions and authentication.



Cab Booking

• Simplifies the cab selection and booking process with user-friendly features.



JUnit Testing

• BookingService JUnit: Ensures reliability by testing booking creation, updates, and deletions.

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• CabService JUnit: Validates functionality for cab-related operations, including registration and availability checks.

• UserService JUnit: Tests for user registration, authentication, and profile updates.

• AdminService JUnit: Covers admin-specific tasks like managing users, cabs, and bookings.

Deployment Workflow

• Jenkins Deployment: Automates end-to-end deployment from code fetch to live updates in AWS environments, reducing manual intervention and improving efficiency.

