Sayyara

Team 16 MERN>MEAN

Introduction

The Problem

Your vehicle has broken down - You need a repair ASAP!

What are the options for a *price-conscious* vehicle owner?

- Search for nearby automotive repair shops start making phone calls
- Sit through countless automated menus hoping to talk to a human being
- Repeat your problem and vehicle information every time you get through
- Receive a quote, write it down, rinse and repeat...
- Finally, go with the best price

Potentially waste **hours** of valuable time

The Solution

Centralize and streamline the automotive repair process

Sayyara functions as your hub for vehicle repair

Without ever leaving the app, the user can:

- Browse repair shops and view their services
- Request quotes for their issue from any participating shop
- Monitor the status of their quotes All price estimates are consolidated in one place
- Schedule an appointment directly after accepting an estimate

No more waiting on hold - Shops **compete** for your business!

Customers Benefit

- Save time, stress and hassle
- Every part of the process is in one place.
- See all available options at a glance
- Easily compare quote estimates for the best deal

Shop Owners Benefit

- See your upcoming appointments on the homepage
- Give price estimates with ease
- See relevant client info, including vehicle specifications and contact information
- Get right down to business, cut out unnecessary verbal communication

Demo

Process and Application Access

Frontend

Backend

- Ahsan
- Hamoon
- Nate

- Uthman
- Jamie

Team Process

- Regular standup meetings to discuss next steps, impediments, etc.
- Semi-regular meetings with the project partner to discuss progress
- Daily coordination within frontend and backend groups
- Frequent coordination between frontend and backend groups
- Github Actions used to automatically run unit tests
- Docker used for the backend

Accessing the Application

- Give the project partner access to a Github repository containing the application code
- Provide detailed instructions on how to run the application locally
- Facilitate a deployed version of the application with a guide on how to update the deployed version

Technical Design

Frontend

Backend



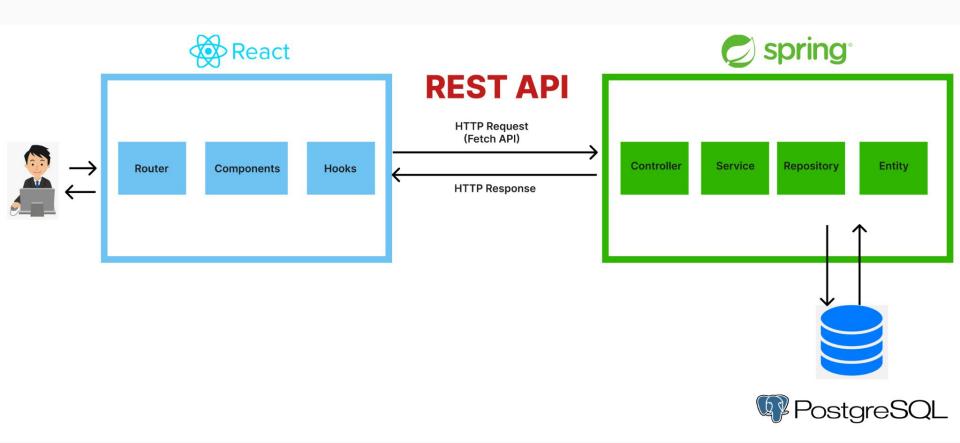




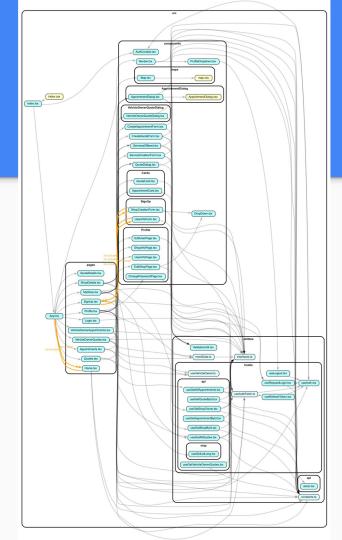




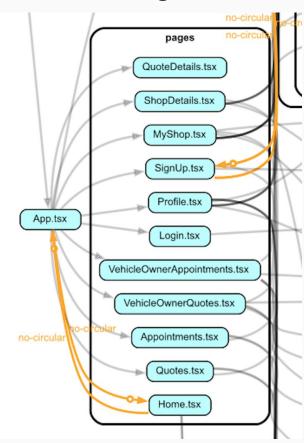




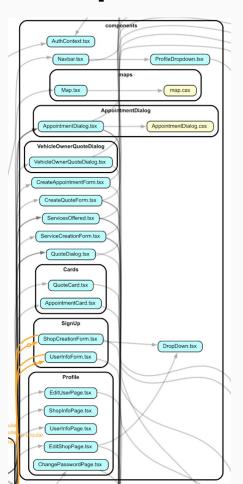
Frontend Architecture



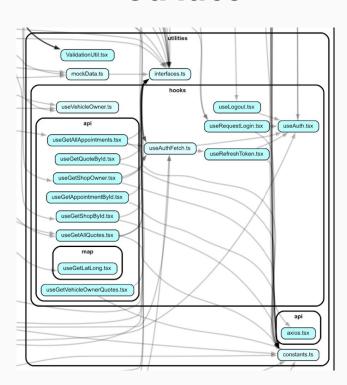
Pages



Components



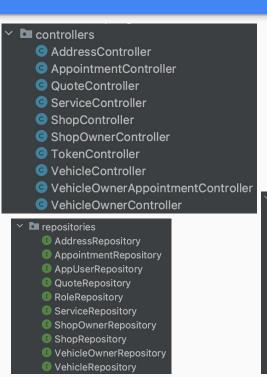
Utilities

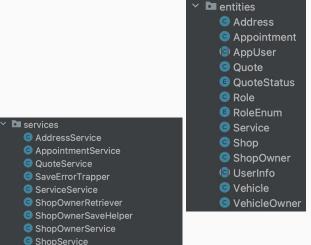


Backend Architecture

Com.backend.spring controllers dto entities exceptions repositories **security** services

validators





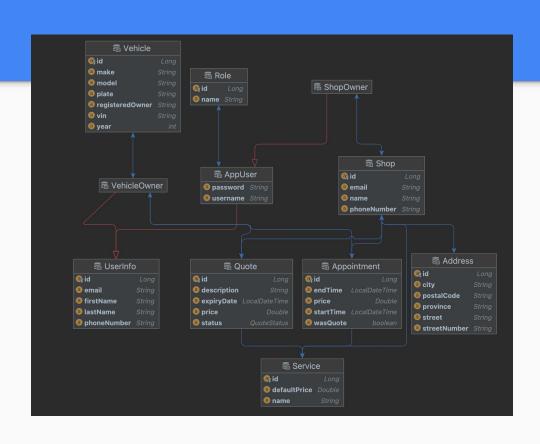
VehicleOwnerAppointmentService

VehicleOwnerSaveHelper

VehicleOwnerService

VehicleService

Database Tables



Documentation



/api/open-api.yaml

Explore

Sayyara Backend ¹⁰⁰ OASS



/api/open-api.vam

How to Authenticate

This API uses Bearer/Token authentication to authenticate a user that is logged in. Once successfully logged in using the /api/user/login endpoint, you will receive a JWT access token and refresh token. Both tokens are encrypted and contain information about the user like their username, and can be decrypted by the backend to retrieve that information.

When accessing an endpoint that requires a user's info, you can just pass in the JWT access token using the header Authorization: "Bearer <token>". The API will decrypt the access token and retrieve the username and use that to get data for the specific user. This way, you don't need to pass in any information about the user through a parameter or request body.

For security reasons, the access token will expire every few minutes, and will need to be refreshed. To refresh the token, pass in the refresh token to the endpoint /api/token/refresh (see below), which will give you a new access token .

Note: The lock icon on the right side of each endpoint indicates that this endpoint can only be accessed by an authorized Shop Owner, meaning that an access token must be passed from the Authorization header. Likewise, an endpoint without the lock can be accessed by a user that isn't logged in.

Preset Data

There are some Shop Owner accounts that were created for testing purposes. The following are some usernames which all share the same password:

Usernames: bob12345 , johnsmith , janejones , bobbrown , alicewilson , joedavis , marymiller , tomtaylor , sallyanderson , billthomas, sarahjackson

Password: Password1!

Authorize



= README.md Savvara Sayvara is a web app that connects Vehicle Mechanics to Vehicle Owners. It is a platform where Vehicle Mechanics can advertise their services and Vehicle Owners can find the best mechanics in their area. **Development Requirements** For building and running the application you need: Docker Npm **Build & Run application** Backend Start the server: cd backend docker-compose up -d The server listens on port 8080. You can access it at http://localhost:8080/ Docs are available at http://localhost:8080/api/docs Optionally test queries on the database in a terminal while the server is running with the command: # After running the server docker-compose exec postgres psql -U postgres Stop the server: docker-compose down Frontend cd frontend nom install npm run start

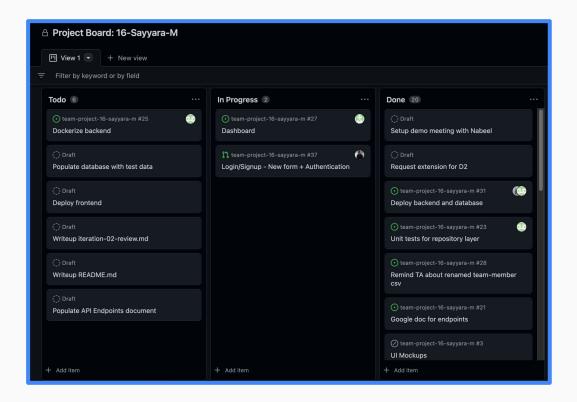
Key Learnings

Things That Went Well









Things That Went Well

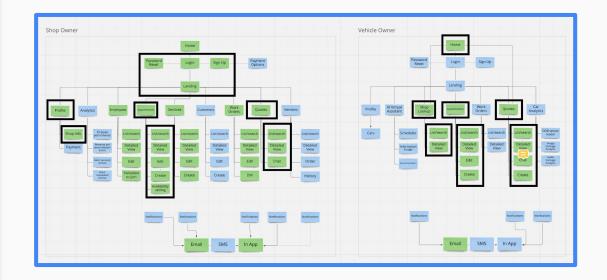


GitHub Project Board



Miro Board





Things That Went Well

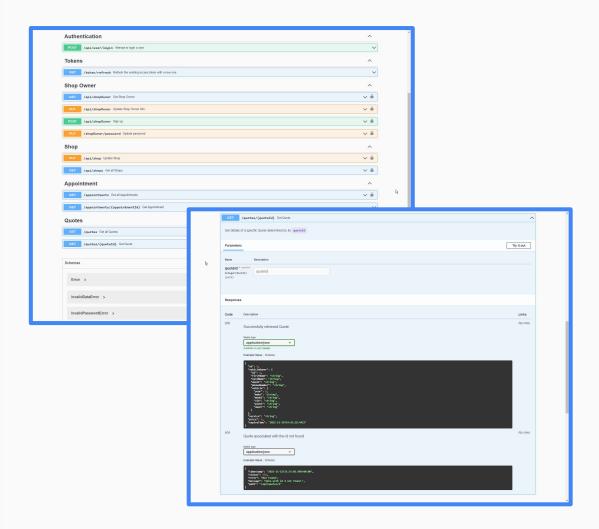


GitHub Project Board



Miro Board



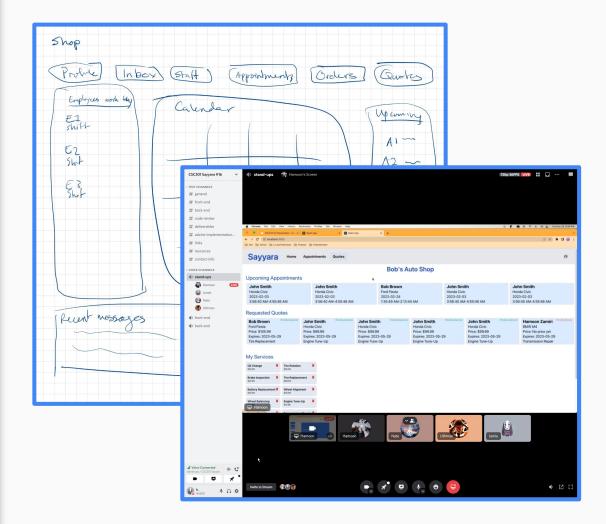


Things That Could be Improved





Internal Deadlines



Contributions

Ahsan Saeed: Frontend Developer, UX Validations

Hamoon Zamiri: Frontend Developer, Database Design

Haolin (Jamie) Fan: Backend Infrastructure, API Design

Nathan Raymant: Frontend Developer, UI Design

Uthman Mohamed: Backend, API Docs, and JWT Auth

All: Deliverable reports

Thanks!

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