THE MOVIE APP
“PRASAARAN”

Presented By:

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Mentor:

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Full Stack Developer
Role:- Backend +Testing

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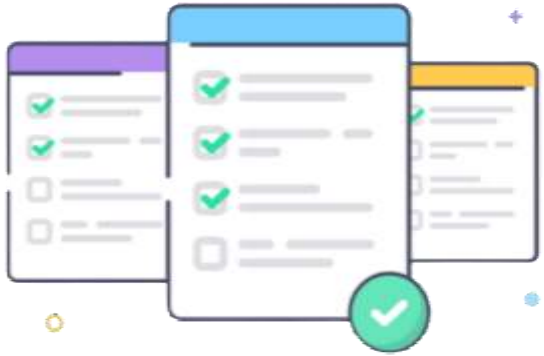
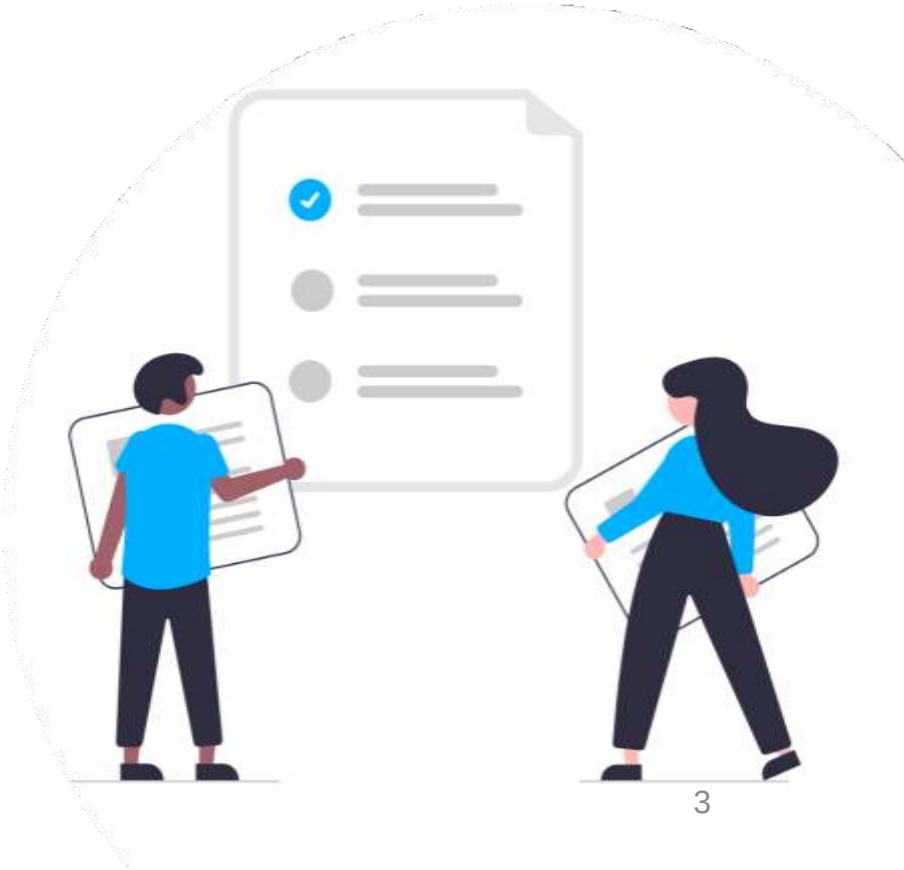
Full Stack Developer
Role:- Frontend Development

Anmol Kaithwas
Full Stack Developer
Role:- Backend+Dockerization

About The Movie App

- The MovieApp Prasaaran is open source movie web application which is design to explore all the details of the movies by using a third party api “The Movie Db” .

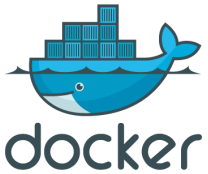




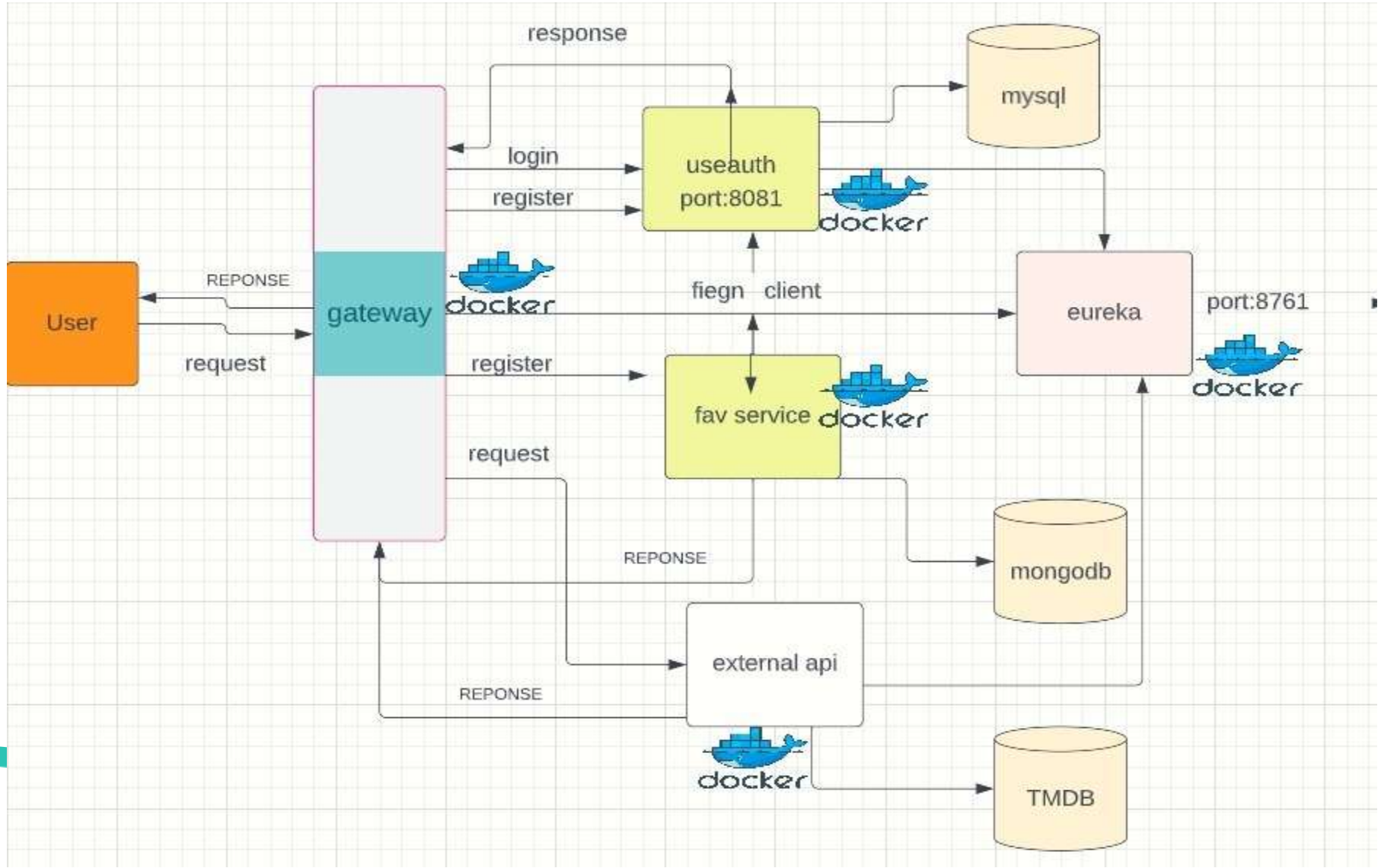
Features of our Project

1. Without login and register users can see all the available movies in our application.
2. Users can register and login and can save their data in the database.
3. After login user can see complete details of the movies.
4. Registered User can add any movies in the favourite section and can remove also.
5. Registered user can give their reviews on any favourite movies.

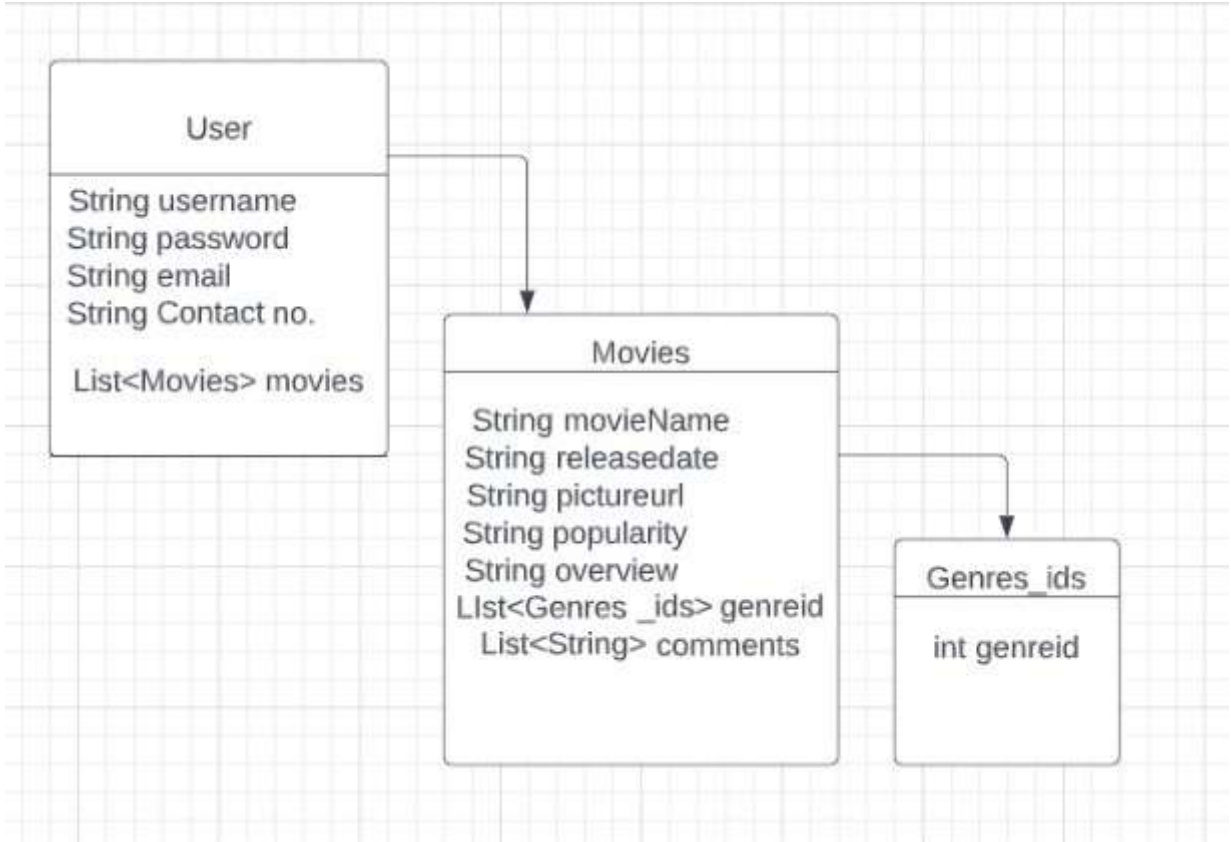
Technologies used



Architecture Diagram



Class Diagram

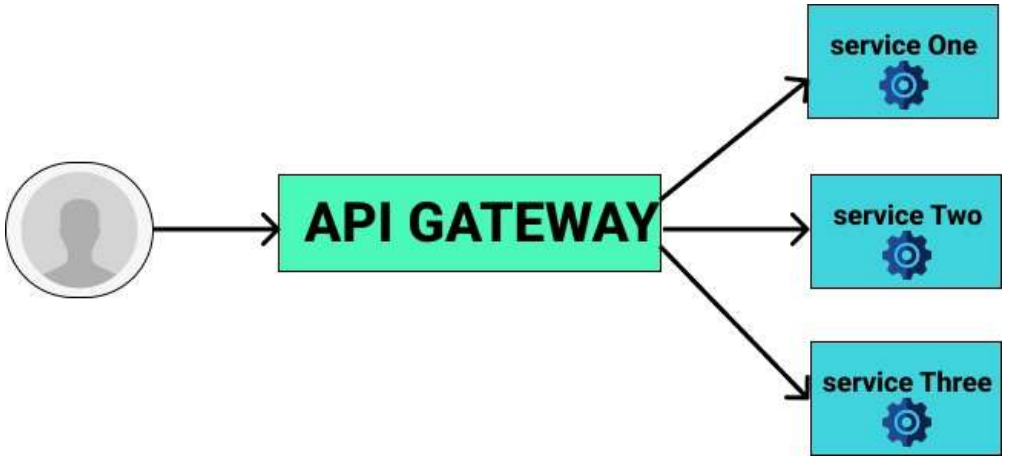


Features that we have implemented at Backend

- API Gateway Service
- Eureka server
- JWT for Authentication
- Feign Client
- Docker

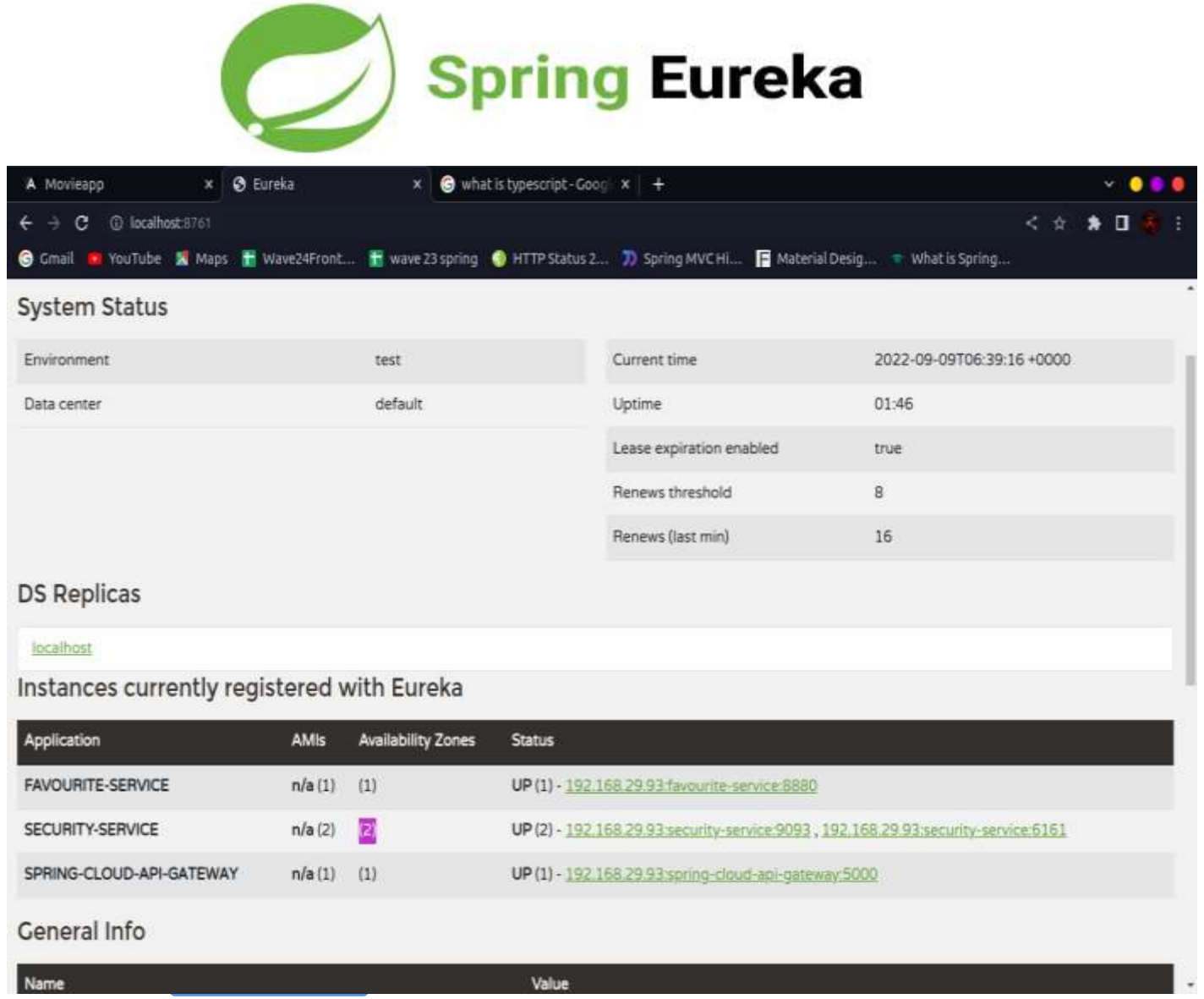
API Gateway Service

- The API Gateway offers a reverse proxy to redirect or route requests to the endpoints of the internal microservices. We have used Spring Cloud's API Gateway Service.
- It makes it possible for the user to access microservices without knowing their actual location .
- It is a tool that sits between a client and a collection of backend services.



Eureka Server

- Eureka Server is an application that holds the information about all client service applications.
- Eureka Server continuously sends heartbeat to each of its client-service application and checks whether they are up and working .
- Eureka server is also known as Discovery Server.

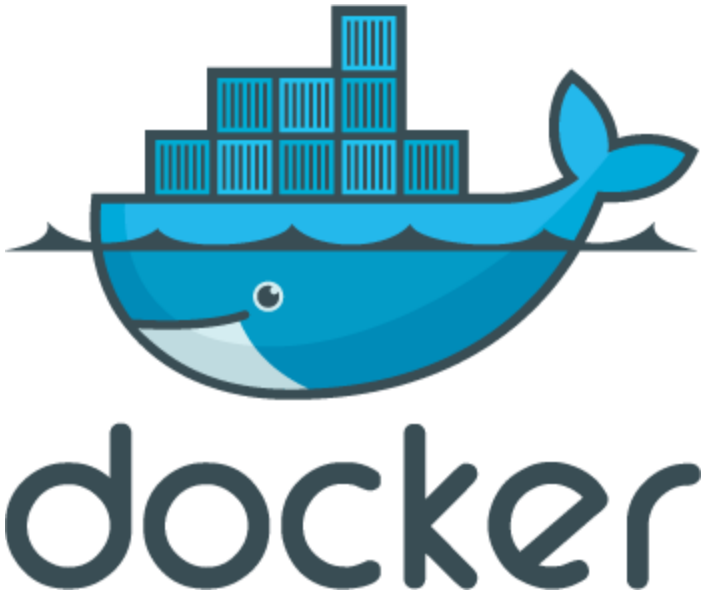


Feign Client

- Synchronous communication between microservices is possible by using Feign Client.
- In this approach the calling service will wait until the caller service responds.
- In Synchronous communication , a chain of requests is created between the microservices while serving the client request.

Docker

- Docker is a container technology to build, ship and run any app at any operating system or platform.
- When a docker image runs , it becomes a container , which can be created , started , stopped and deleted.
- It is cost effective and helps in fast deployment.



JSON Web Token for Authentication

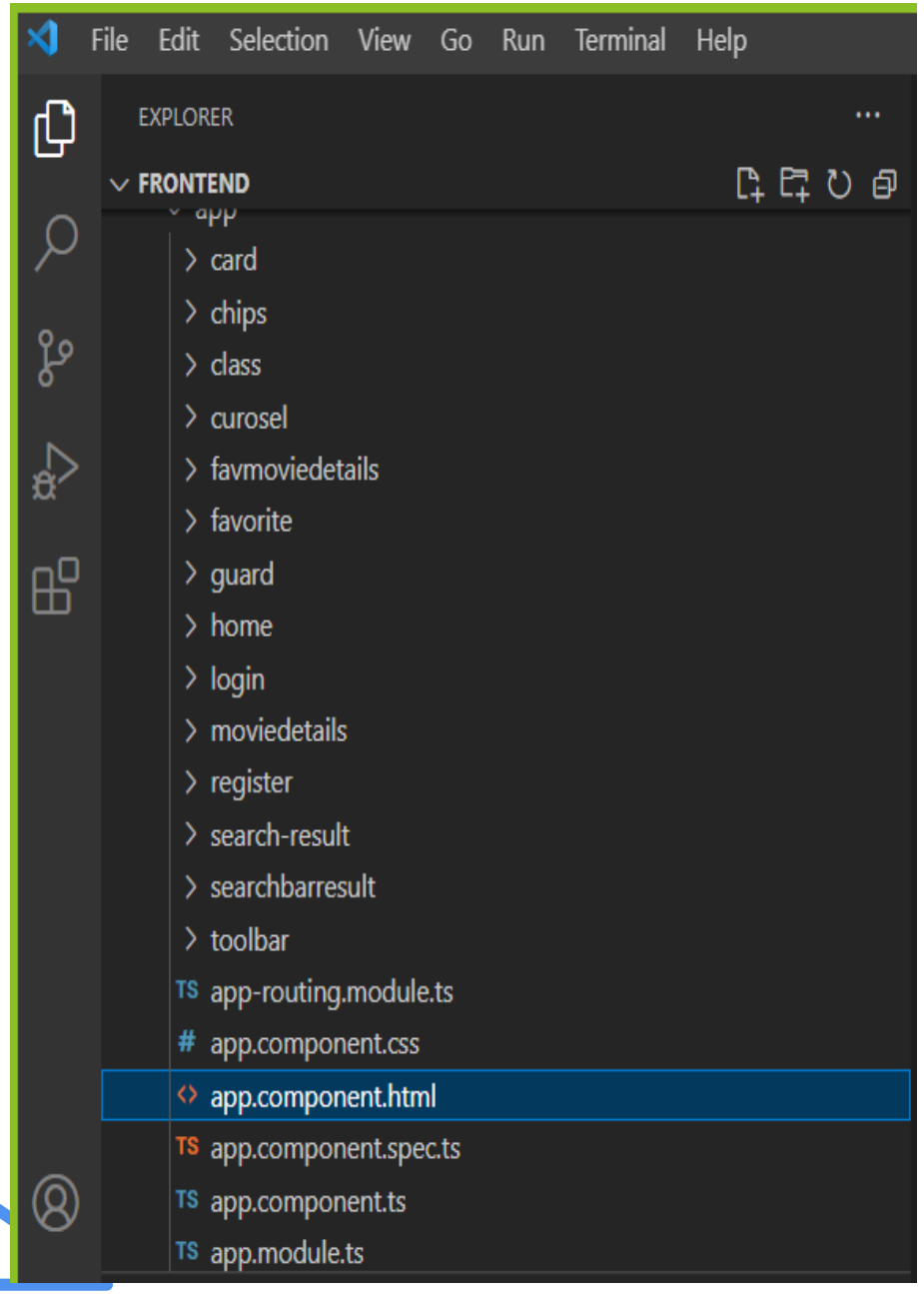
- It is a standard for token-based authentication.
- It uses the HMAC SHA-256 signing algorithm .
- We have implemented JWT for authentication of user in our project.

Technologies used in Frontend

- Angular
- HTML & CSS
- Bootstrap

Angular

- Angular is an open-source, JavaScript framework written in TypeScript.
- Its primary purpose is to develop single-page applications.
- Angular is cross-platform and compatible with multiple browsers.



HTML & CSS

- The Hyper Text Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets.
- CSS is the language we use to style an HTML document.
- CSS describes how HTML elements should be displayed.

Bootstrap

- Bootstrap is a free and open-source CSS framework . It contains HTML, CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components

Database used

- MySQL
- MongoDB
- TMDB

MySQL

MySQL is an open-source Relational Database Management System (RDBMS).

- It is one of the most popular open source
  RDBMS
- It is developed, distributed, and supported by Oracle Corporation.
- It runs on a server

MongoDB

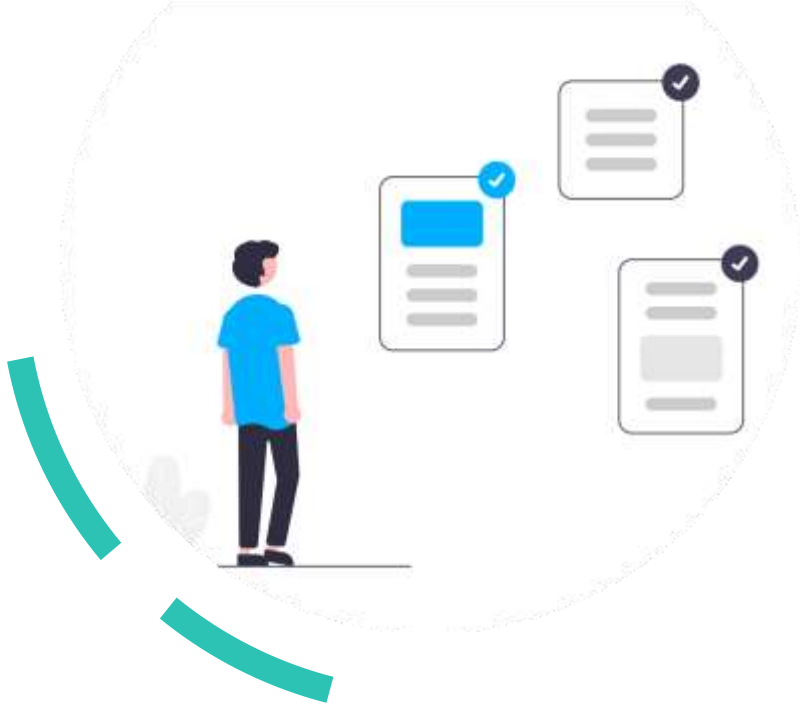
- MongoDB is an object-oriented, simple, dynamic, and scalable NoSQL database.
- Schema less − MongoDB is a document database in which one collection holds different documents.
- Number of fields, content and size of the document can differ from one document to another.

Third Party API

Project Walkthrough

The Movie App

Further improvements



Since we have created this product in 12 days for our initial release, in our later versions , we will incorporate the following enhancements:

- Forgot password features.
- We will provide download links for all registered users for the movies.
- User can update their profiles and are able to upload their own pictures.
- We will also update our UI according to the User’s feedbacks.

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&
A

Thank you!