Table of Contents

[Requirement 1](#_Toc97835771)

[Tech stack 1](#_Toc97835772)

[Architecture Diagram 2](#_Toc97835773)

[Service details 2](#_Toc97835774)

[Data model/ER diagram 2](#_Toc97835775)

[UI/UX 3](#_Toc97835776)

[API Documentation 5](#_Toc97835777)

# Requirement

Build Maveric Connect web application that has following features:

* 1. Login, Signup, Update Profile, Signout
  2. Create, view, update, delete posts
  3. Create, view, update, delete comments
  4. Create, view, update, delete likes

# Tech stack

|  |  |  |
| --- | --- | --- |
| **Application component** | **Tech stack** | **Comment** |
| Front end | Angular/ReactJs |  |
| Backend | Java Springboot |  |
| Architecture | Microservice based architecture |  |
| Springboot build tool | Maven |  |
| Source Code Management tools | Git, Github |  |
| Unit testing | Junit, Mockito |  |
| API Gateway | Spring Cloud Gateway |  |
| Service discovery | Eureka Server |  |
| Logging | ELK |  |
| API Security | JWT token |  |
| Database | MySQL, MongoDb |  |
| Static code analysis | SonarQube |  |
| Containerisation | Docker |  |
| API testing | Postman |  |
| IDE | IntelliJ CE, Visual Studio Code |  |

# Architecture Diagram

Diagram

Description automatically generated

# Service details

Below table contains the list of microservices and web application that needs to be implemented. Make sure that the service/application name and port number are as mentioned in the below table

|  |  |  |  |
| --- | --- | --- | --- |
| Service name | Port number | Git repo name | Comment |
| authentication-authorization-service | 3000 | authentication-authorization-service | Service for authentication and authorisation |
| user-service | 3005 | user-service | Service for user management |
| post-service | 3010 | post-service | Service for managing posts |
| comment-service | 3015 | comment-service | Service for managing comments |
| like-service | 3020 | like-service | Service for managing likes |
| eureka-service | 8761 | eureka-service | Eureka service for service discovery |
| gateway-service | 8000 | gateway-service | Service for cloud gateway |
| maveric-connect-webapp | 8080 | maveric- connect-webapp | Angular/React web application |

# Data model/ER diagram

Diagram

Description automatically generated

# UI/UX

|  |  |
| --- | --- |
| Color code for footer and buttons | #214e8f |
| Header logo file name | maveric-logo-updated.png |
| Footer logo image name | maveric-logo-white.png |
| Font family | Roboto |

A picture containing graphical user interface

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

Graphical user interface, application

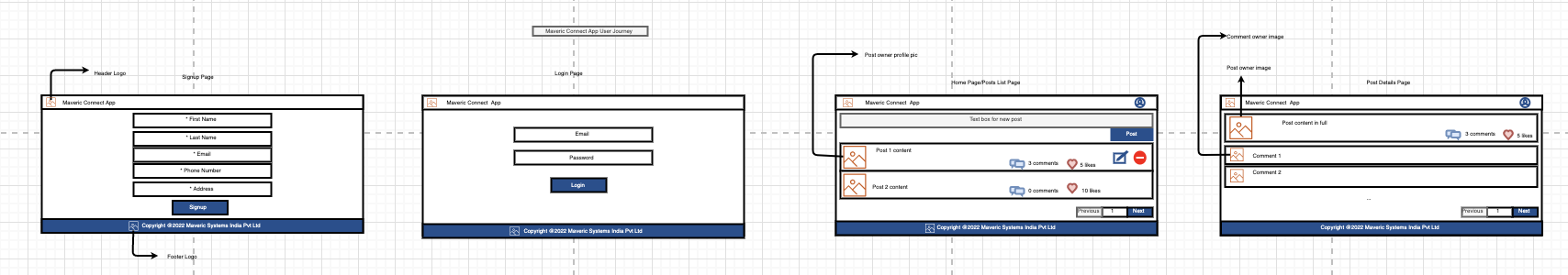
Description automatically generated

Graphical user interface, application

Description automatically generated

# 

User Journey:



# API Documentation

Refer the swagger file for API definition