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 to allow employees to interact with one another. This application should be built on Microservice architecture for scalability.

Maveric employees must be able to use their official email id to setup their account. Once account is setup they should be able to perform following activities:

* 1. Create posts
  2. Add comments on their own or others posts
  3. Add or remove likes on posts or comments
  4. Update their profile information
  5. View posts, comments and likes
  6. Signout of the application

# 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 |  |

# 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

Login Page:

Graphical user interface

Description automatically generated

Signup Page:

Graphical user interface

Description automatically generated with medium confidence

Posts list page:

Text

Description automatically generated

Post details page:

Graphical user interface, text, application

Description automatically generated

# API Documentation

Refer the swagger file for API definition