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# Requirement

Build Maveric Bank web application that has following features:

1. Login, Signup, Update Profile, Signout
2. Create, view, update, delete account
3. Create, view, update, delete balance
4. Create, view, update, delete transactions

# 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 |
| account-service | 3010 | account-service | Service for managing accounts |
| balance-service | 3015 | balance-service | Service for managing balances |
| transaction-service | 3020 | transaction-service | Service for managing transactions |
| eureka-service | 8761 | eureka-service | Eureka service for service discovery |
| gateway-service | 8000 | gateway-service | Service for cloud gateway |
| maveric-bank-webapp | 8080 | maveric- bank-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 |

Graphical user interface

Description automatically generated with low confidence

Graphical user interface, table

Description automatically generated

Table

Description automatically generated

# 

User Journey:

# A picture containing text, indoor, bathroom, screenshot Description automatically generated

# API Documentation

Refer the swagger file for API definition