**Name of the Project** – Banking Application.

**Objectives/Vision**

Develop a web application that can be used by any bank to provide various services to their clients online.

This application can assist both application owners/bank and their customers. Users can easily do activities related to their accounts online.

**Functional Requirements**

1. Complete registration process: We need to develop user registration, login, and forgotten passwords. Reset password and forgot password should implement with the registered email id of the user.
2. Once the user provides the correct login credential, the user will lend into the user dashboard. The dashboard should have all necessary features available to the specific user.
3. User type varies from the user, admin, and application owner.
4. Account Holder/User dashboard come with all necessary features like user can see and update their personal detail like account number, type of account, etc.

User dashboard, there are various features like generating a statement with various options, can see the last 10 transactions, request for the cheque book. Request to cancel cheque processing etc.

User can make transactions: Can add or delete accounts from the same bank and another bank.

Offers can be seen on the user dashboard like car loans, personal loans, and credit cards.

User can change their address, by uploading a valid address proof document as suggested by the bank.

1. Bank can see account holder/user account detail. Can send mail to a particular user or all customers.

**Non-Function Requirement:**

1. Build and Test Responsive and Interactive Webpages
2. Proper authentication should be implemented using OAuth 2.0 / JWT.
3. Application should have proper validation implementation with all required forms.
4. Appropriate cloud service should be incorporated / can be used for deployment, developing features based on project or use case.
5. Proper front-end unit testing should be part of the implementation.
6. Junit test coverage should also be part of development.
7. Implement proper CI and CD pipeline.
8. Deploy application on AWS cloud. (like Deploy Java Microservices on Amazon ECS using AWS Fargate).

**Tools and Technologies to be used**

- VCS: Gitlab

- Front End: HTML, CSS, JavaScript, Bootstrap and REACT.

- Backend: Java 8, Spring Boot.

- Database: MySQL/MongoDB

- Testing: Mocha/Chai, Junit.

-Deployment: AWS Cloud services