

Banking Web Application

1.1 Overview

Banking web application is a one stop solution to all the customers. Customers can know the whereabouts of account, transactions and profile.

The main features of banking web application are:

- Facility of Login and Signup for Customers
- Facility to view Account Details (Account Number, IFSC, Branch, Address, Email and Registered Mobile Number)
- Facility to view Account Summary (Account Number, Balance, Status)
- Facility to view Transactions page
- Facility to Fund Transfer between two Accounts
- Facility to view contact details of the bank (Email, Phone number)
- Facility to view aboutUs Page

1.2 Frameworks

- **React.Js** - For building frontend microservice
- **Java Spring** – For building backend microservices

2.1 Design features

The design features include : User Interface, Customer Service, Account Service, Third Party Transfer Service

User Interface

- Home Page
First page that will be visible on visiting the site. It will contain Login/Signup buttons Home page should contain Banking Promotions
- Sign Up Page
Create a signup page to allow Customers to register.
- Login Page
Create a login page for Customers to login.
- Account Detail Page
This page will contain details of the Bank Accounts.
- Account Transactions Page
This page will contain details of the Bank Account transactions.
- Fund Transfer between two Accounts
This page will contain Fund Transfer functionality between two Accounts

- About Us Page

This page will the address of the bank.

- Contact Us Page

This page will contain the contact details of the bank. Customer can call, mail and send sms for bank related queries.

Customer Service

- The customer microservice has GET, POST, DELETE, PUT methods to get the customer details, to post the customer details, to delete the customer and update the customer respectively.
- Customer service has customer entity. Customer entity contains fields like name of the customer, account number, account Id, IFSC code , email, mobile no, password and address fields.
- Only authenticated customer can view the account details, profile information and perform transactions.

Account Service

- The customer microservice has GET, POST, DELETE, PUT methods to get the account details, to post the account details, to delete the account and update transactions(Deposit, Withdraw) respectively.
- Account service has account entity. Account entity contains fields like account Id of the customer, balance and account status.
- One can make transactions like deposit and withdraw and can view transaction status.

Third Party Transfer Service

- The TPT microservice has GET, PUT methods to get the transaction details and to make TPT respectively.
- Third Party Transfer Service has logger entity. Logger entity contains fields like account Id of the customer, initial balance, final balance, transaction status and transaction type.
- One can make transactions between two accounts using get all accounts api call from account service.

