**Online Banking Management System**

**Introduction**

The Online Banking Applications help the bankers and customers to connect and also helps in saving time and money of the customers by avoiding a trip to banks to perform any banking transactions. Banks collect huge amounts of data such as daily transactions, calculating interest, tracking loan, and also in portfolio management. The bank customers can keep track of their funds and manage their funds whenever they want to so long as they are authorized.

**Purpose**

The Online Banking suite provides a global accounting foundation that provides the all private banks with electronic banking facilities. It allows client of private banks to carry out their day to day banking transactions.

**Features of the project**

We have to implement most of the feature of online banking in it. User can login, do withdrawal, Request a Deposit amount, Transfer amount from one account to another account, check his/her current balance, and view reports of all the transaction.

High level Steps follow by trainer while delivering MEAN Stack training. This running application divided into four phases.

**Phase1:** Technologies going to learn Agile, Git, HTML, CSS, JavaScript using ES5 and ES6 and bootstrap

1. Agile : creating user stories
2. Creating Remote repository and adding project in remote repository
3. HTML : Creating HTML pages for login, , customerHome, adminHome,
4. customerHome connect to subpages as View Account Details, Deposit Amount, withdraw amount, transfer amount, check balance, change password etc.
5. adminHome connect to subpages as View All account holder details, change pasword.
6. CSS : Adding basic formatting styling for those pages.
7. JavaScript : Using JavaScript adding dynamic effects for those pages
8. Bootstrap : applying bootstrap features for those pages.

**Phase 2** : Technologies going to learn : Node JS Overview, Running json sever, Typescript, Angular framework, testing jasmine and karma.

1. Converting those static pages into angular component and making the relationship between those components
2. Creating forms adding using angular forms using template driven or model driver form
3. Doing Validation for those forms.
4. Creating services for those technologies adding those information in json file with help of json-server.
5. Creating working application with angular and json-server(as static json data) as backend.
6. Writing test case using jasmine and karma for component and services layer.

**Phase 3** : Technologies going to learn : Node JS, Node JS module like fs, http, express js, mongo db, connecting mongo db using mongoose module, testing node js app, testing express js using mocha with chai etc.

1. Creating REST API using Express JS
2. Converting all json file data into collection in Mongo DB.
3. Connecting mongo db database using Mongoose module using MVC style.
4. Creating test cases to test node js, express js application.

**Phase 4** : Technologies going to learn : Docker, docker compose, CI and CD tool, AWS etc.

1. Creating Docker images for frontend technologies
2. Creating Docker image for backend technologies
3. Running both image using Docker compose
4. Creating CI and CD tool
5. Pull the project from git and build the docker image
6. And Deploy this project in AWS using EC2 instance