Write-Up: Simplilearn Project-(ICIN Bank)

Developed by: - JYOTI NANDINI

Problem Statement:

ICIN is one of the top banking firms that accepts deposits from the public for the purpose of lending loans to the public. It also invests an amount in securities.

Recently, the business analysts noticed a drop in the number of customers of the bank. They found out that online banking systems of banks like AXIS and American Express are gaining more profits by eliminating middlemen from the equation. As a result, the team decided to hire a Full Stack developer who can develop an online banking web application with a rich and user-friendly interface

You are hired as one of the Full Stack Java developers and have been asked to develop the web application. The management team has provided you the requirements and their business model so that you can easily arrange different components of the application.

Features of the application:

- 1. Registration
- 2. Login
- 3. Account transactions
- 4. Transfers
- 5. Savings details
- 6. Profile settings
- 7. Requesting cheque books

Recommended technologies:

- 1. Database management: MySQL
- 2. Back-end logic: Java programming, SpringBoot framework
- 3. Front-end development: Angular 2, HTML/CSS,
- 4. Automation and testing technologies: Selenium and JUnit
- 5. DevOps and production technologies: Git, GitHub, Jenkins, Docker, and AWS

Project development guidelines:

- The project will be delivered within four sprints with every sprint delivering a minimal viable product.
- It is mandatory to perform proper sprint planning with user stories to develop all the components of the project.
- The learner can use any technology from the above-mentioned technologies for different layers of the project.
- The web application should be responsive and should fetch or send data dynamically without hardcoded values.
- The learner must maintain the version of the application over GitHub and every new change should be sent to the repository.
- The learner must implement a CI/CD pipeline using Jenkins.
- The learner should also deploy and host the application on an AWS EC2 instance.
- The learner should also implement automation testing before the application enters the CI/CD pipeline.
- The learner should use Git branching to separately perform the basic automation testing of application.
- The learner should make a rich front-end of the application, which is user- friendly and easy for the user to navigate through the application.
- There will be two portals in the application, namely the admin and user portal.
 Admin Portal:
 - It deals with all the back-end data generation and product information. The admin user should be able to:
- Authorize the roles and guidelines for the user

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- Grant access to the user regarding money transfer, deposits, and withdrawal
- Block the user account in case of any threat
- Authorize the cheque book requests User Portal:

It deals with the user activities. The user should be able to:

- Register or log in to the application to maintain a record of activities
- Deposit and withdraw money from the account
- View transactions and balance in the primary and savings account
- Transfer funds between different accounts and add recipients
- Request cheque books for different accounts

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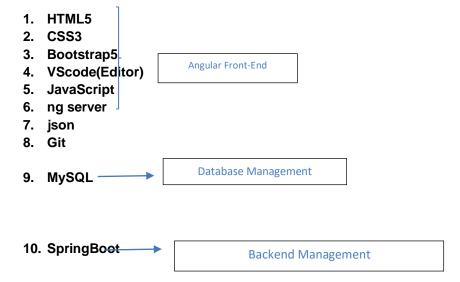
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Project development model:

we have used Agile Project Management approach, with 3sprints. The duration of each sprint is(1weeks). Thetotal deliverytimewouldbe (3 weeks).

Set Up and Installation (Angular): -

To run the code, System must be equipped with following.



Source code management and version control:-

As agreed, we use (Set up) Git and GitHub accountto storeandtrackenhancementsoftheprototype.

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