

WIPRO NGA Program – Java FSD Angular

Capstone Project Presentation – 23rd Sept 2024

Project Title – Smart Bank (Online Banking)

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CAPSTONE PROJECT

SMART BANK ONLINE BANKING SYSTEM

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Developed By-THODETI NITHIN



TABLE OF CONTENTS

- > Introduction
- > Aim of the project
- ➤ Objective of the project
- > System Requirements
- > Activity diagram for users
- > Technologies Used
- > Projects Modules
- ➤ Use Case Diagram
- > Problem Statement and Solution
- > Screenshots of the Project
- > Conclusion
- > Future Scope



INTRODUCTION

- ➤ The Project aims to design an Online Banking System application which enables the customers to perform a variety of banking activities, including Account management, Fund Transfers, Transaction Monitoring, all from the comfort of their devices.
- > Smart Bank is a web-Application which provides a user friendly interface and an easy efficient way to banking.
- > Feature of this system will be similar to an Online Banking System. As a user you can-
- Open Account
- > Register for Internet Banking
- Check Account Details, Account Statement, Account Summary, Transaction Details
- Add Payee, Get Payee Details
- > Fund Transfer



AIM OF THE PROJECT

- ➤ User can open new Account & Register for Internet Banking
- ➤ Admin can also Credit and Debit Amount in users account by their static Credentials.
- > Customers can check Account details, Account Summary, Account statement, Transactions once they logged in.
- > Customer can change existing password.
- ➤ Provide Online Banking Facility to Customers such as Account Transaction Operation like Fund Transfer using NEFT from one account to another existing account of bank.



OBJECTIVE OF THE PROJECT

- **Enhance User Convenience:**
 - Provide a seamless and easy-to-navigate interface that allows customers to perform transactions anytime, anywhere.
- Digitize Banking Operations:
 - Shift traditional banking tasks like balance inquiries and fund transfers to a secure online platform.
- > Customer and Administrator both can interact with Frontend.
- Administrator are allowed to do Credit and Debit Transactions by provide the credential each transaction.



SYSTEM REQUIREMENTS

✓ Hardware Requirements:

- ☐ Processor: Quad-core processor (at least 2.5 GHz)
- □ RAM: 16 GB (minimum), 32 GB (recommended)
- ☐ Storage: 512 GB SSD (minimum), 1 TB SSD (recommended)
- ☐ Operating System: Windows

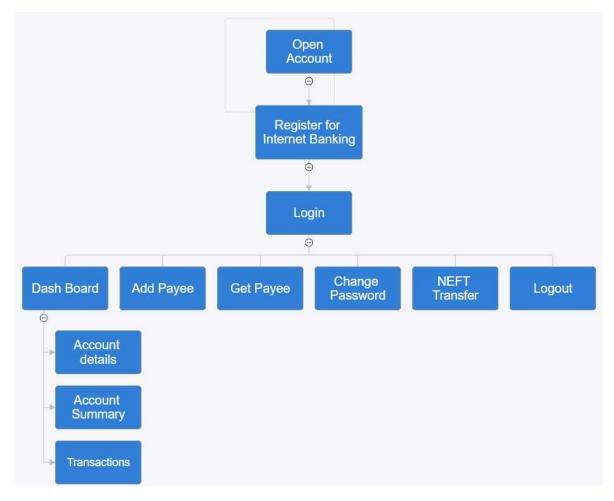
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✓ Software Requirements:

- ☐ Java Development Kit (JDK) 17 or later
- \Box STS
- ☐ Postman REST API Testing Tool
- ☐ Swagger 2.0.2 REST API Documentation Tool
- ☐ Node.js (for Angular development)
- □ npm (package manager for Node.is)
- ☐ Angular CLI (for Angular development)
- **☐** Visual Studio Code Editor



ACTIVITY DIAGRAM FOR USER





TECHNOLOGIES USED

- **☞** Spring Boot 3.3
- **►** Angular 18
- **►** MongoDB 4.4 or later
- **■** Bootstrap 5
- **■** Hibernate 6
- **JPA 3.3**
- **☞**Git (for source code management)



PROJECT MODULES

ADMIN MODULE:

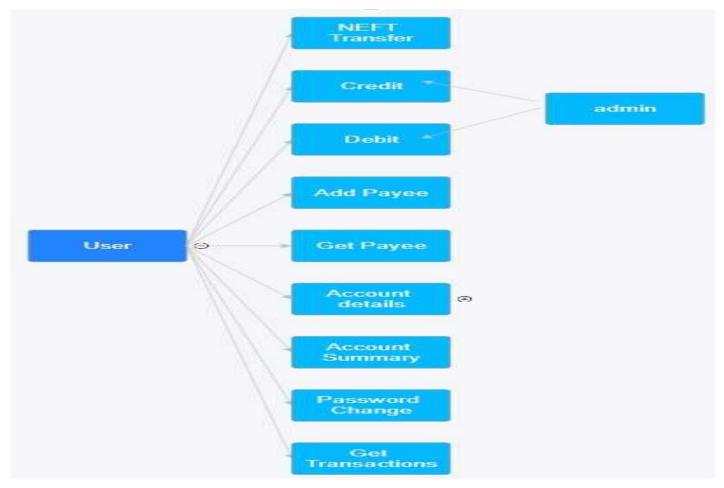
- > Credit
- > Debit

USER MODULE:

- > Open Account
- > Register For Internet Banking
- > Login
- > Dashboard
 - Account Details Page
 - Account Summary Page
 - Account Transaction
- **➤ Add Payee**
- **≻** Get Payees
- > Change Password
- > Fund Transfer
- > Logout



USE CASE DIAGRAM





PROBLEM STATEMENT

- ➤ Today's most of the online banking websites are lagging in some areas like, some are not providing proper UI which could be user friendly, while some are slow in processing pages or are not dynamic.
- > Software must be developed for online banking system to be responsive.



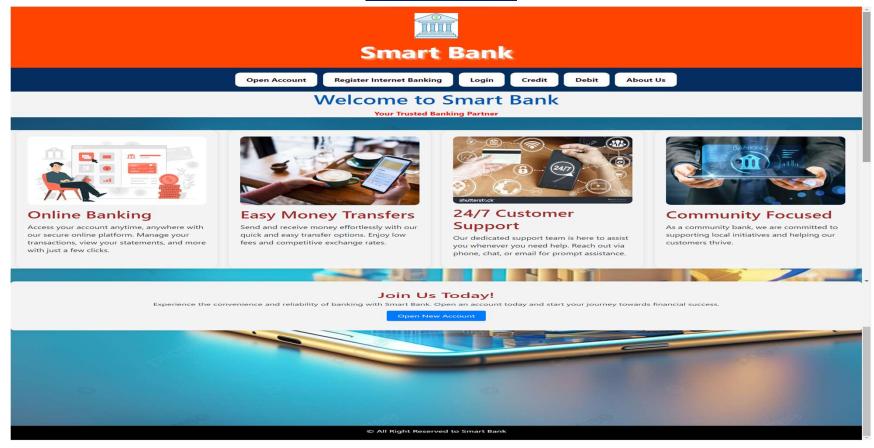
SOLUTION

- Many people used online banking as means of money transaction so that they can transfer money from one user to another without visiting to respective branch.
- > Users can transfer money within a short period of time and verify recent transactions.
- ➤ Users can view their account profile whenever they want.
- ➤ Information is saved, and the corresponding Update take place in database.



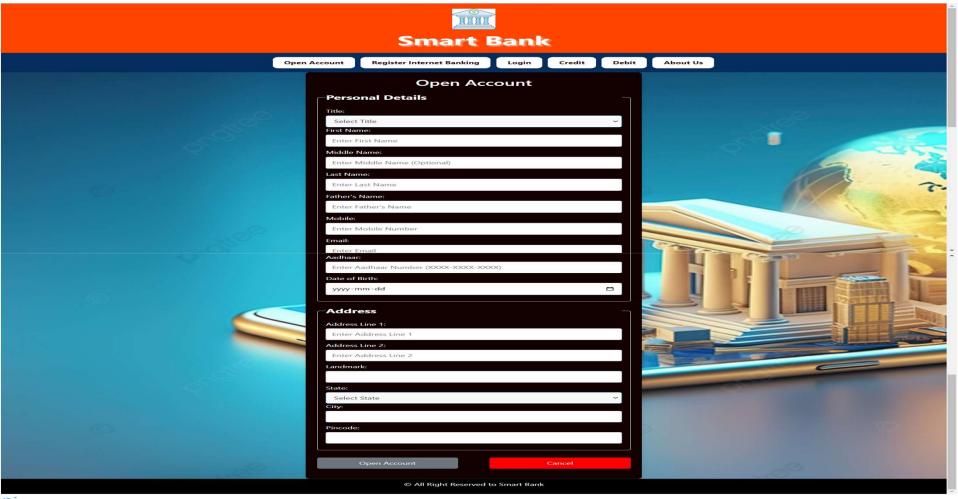
SCREENSHOTS OF THE PROJECT

HOME PAGE



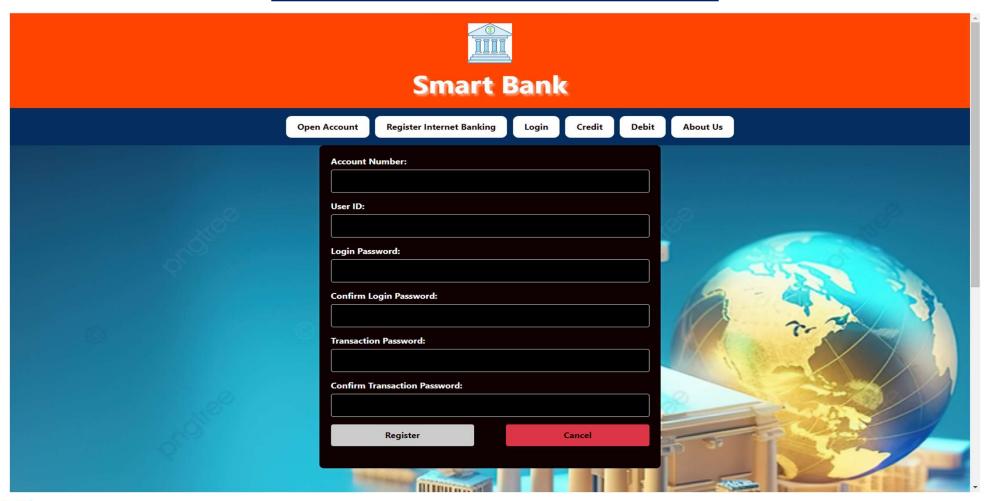


OPEN ACCOUNT



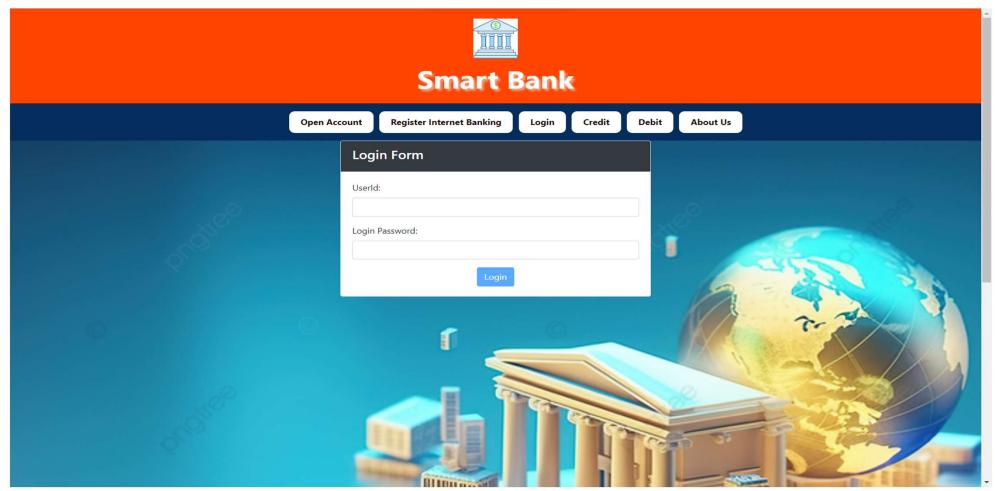


REGISTER FOR INTERNET BANKING



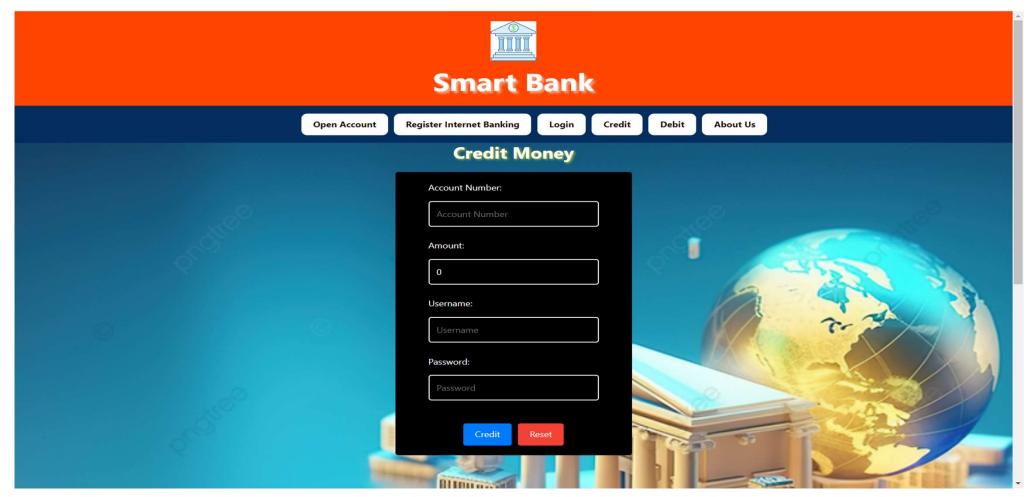


LOGIN



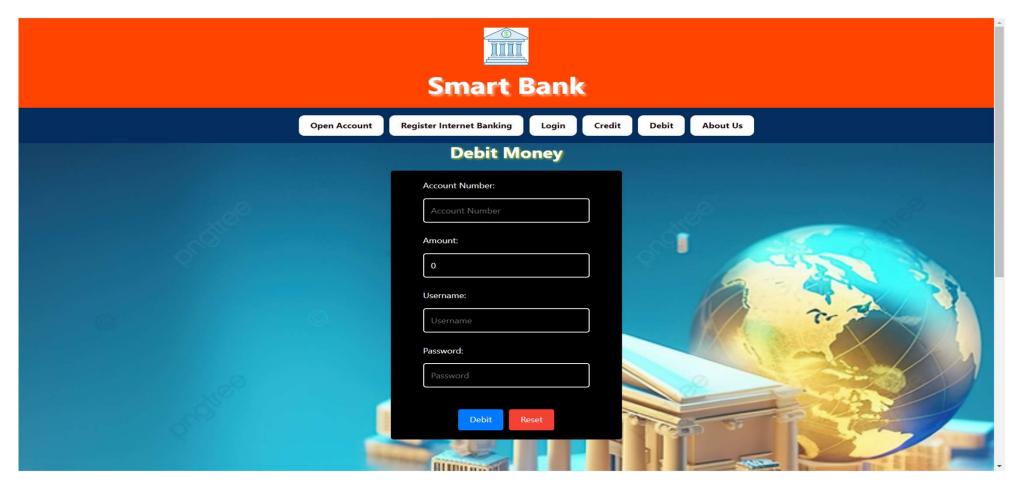


CREDIT



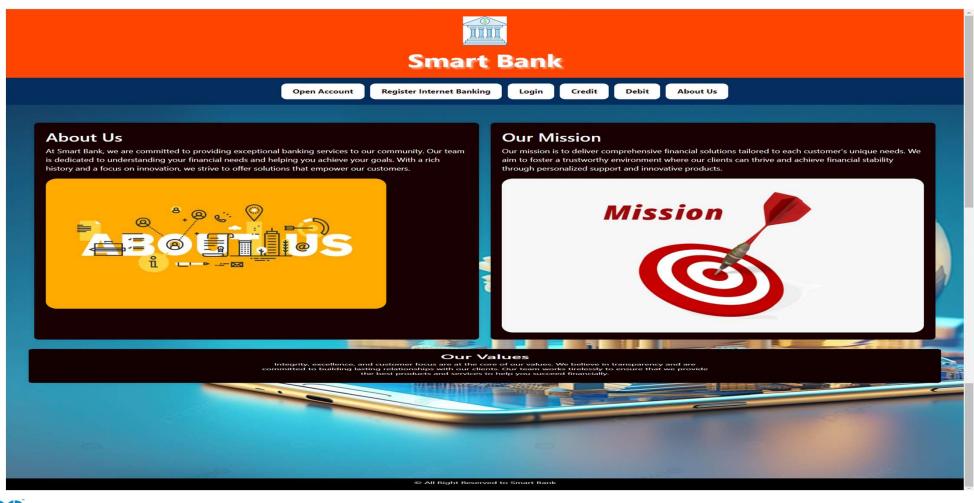


DEBIT



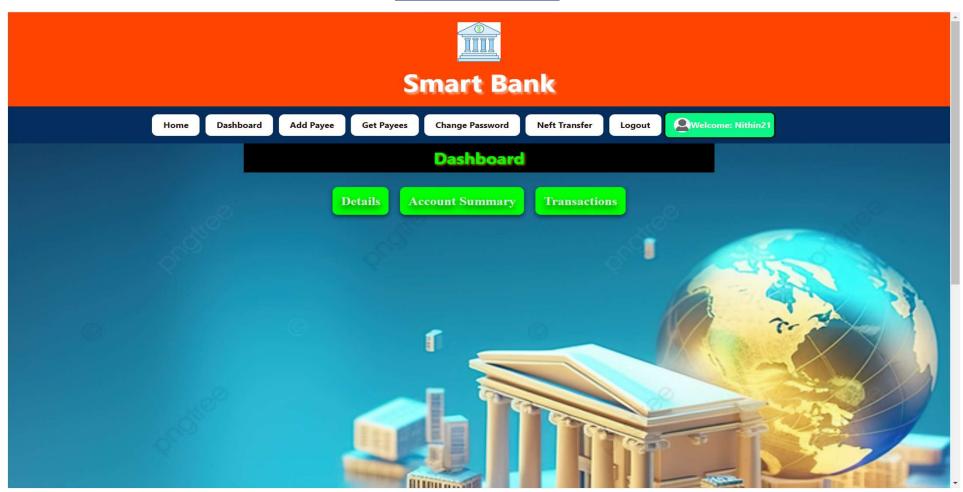


ABOUT US



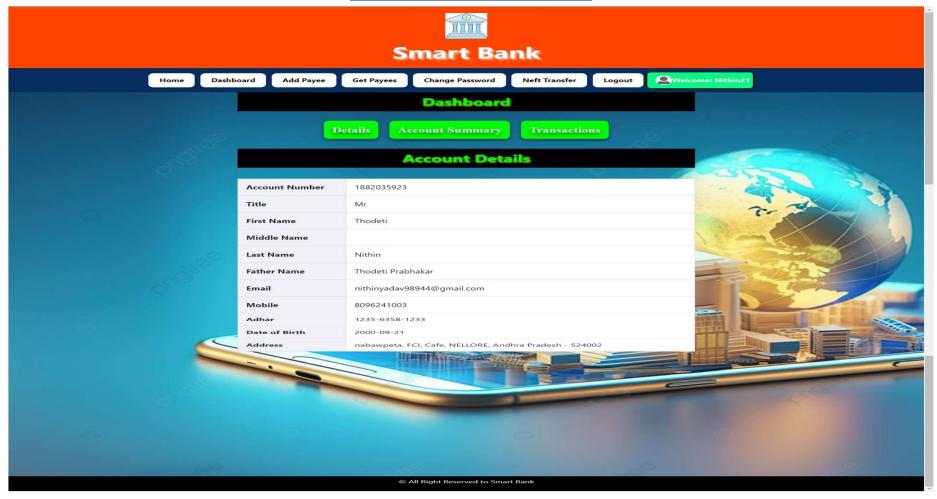


DASHBOARD



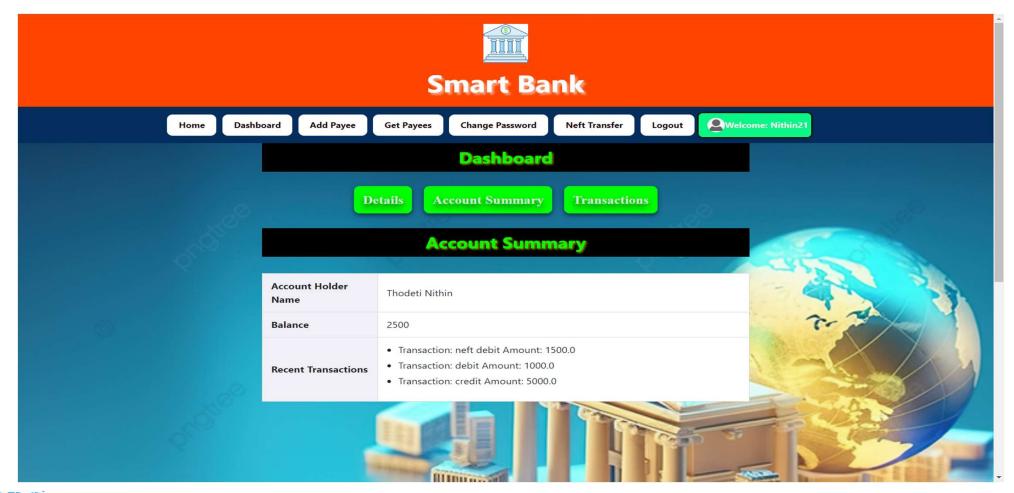


ACCOUNT DETAILS



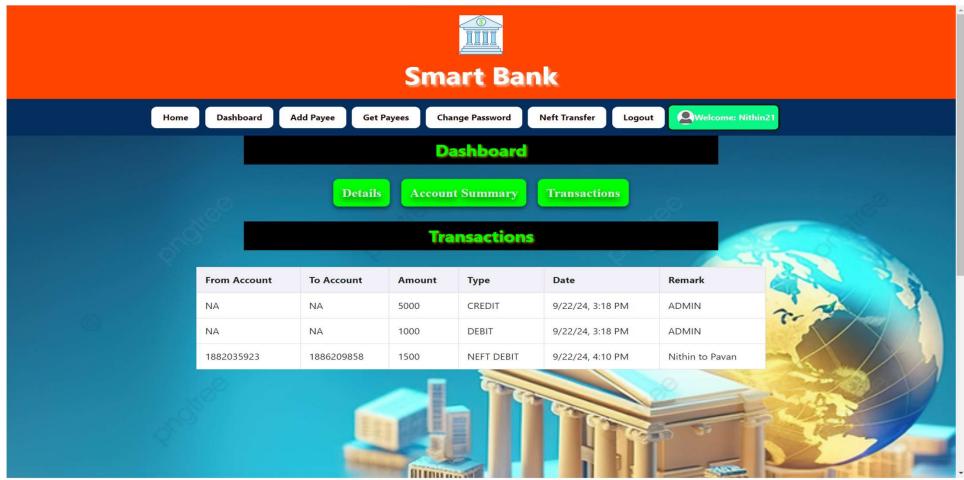


ACCOUNT SUMMARY



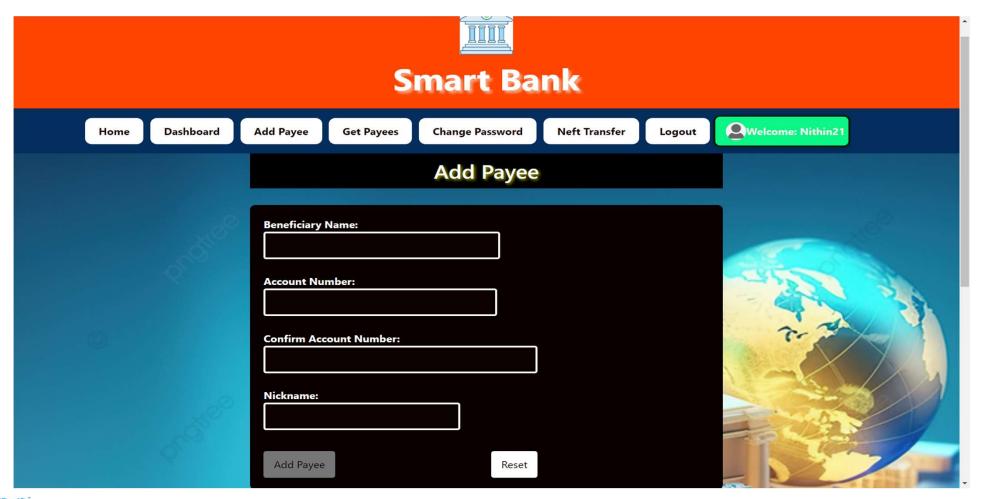


TRANSACTION



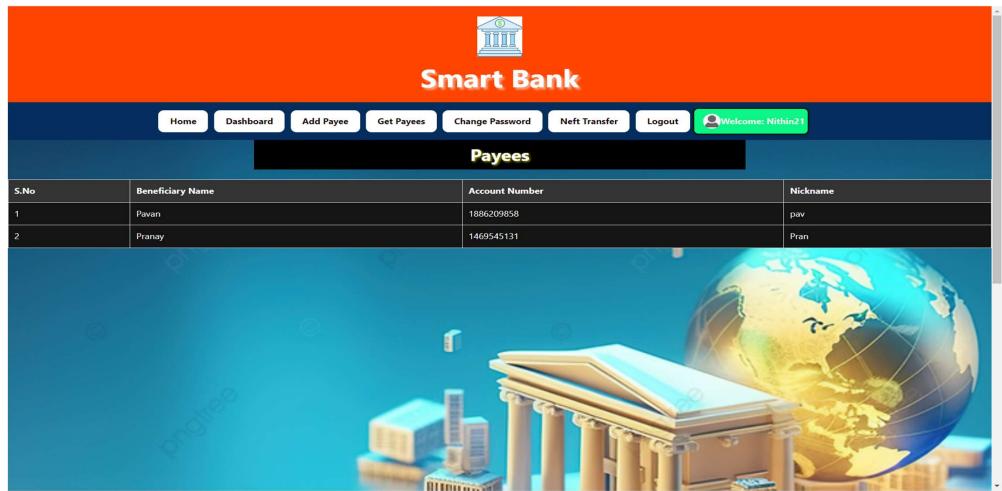


ADD PAYEE



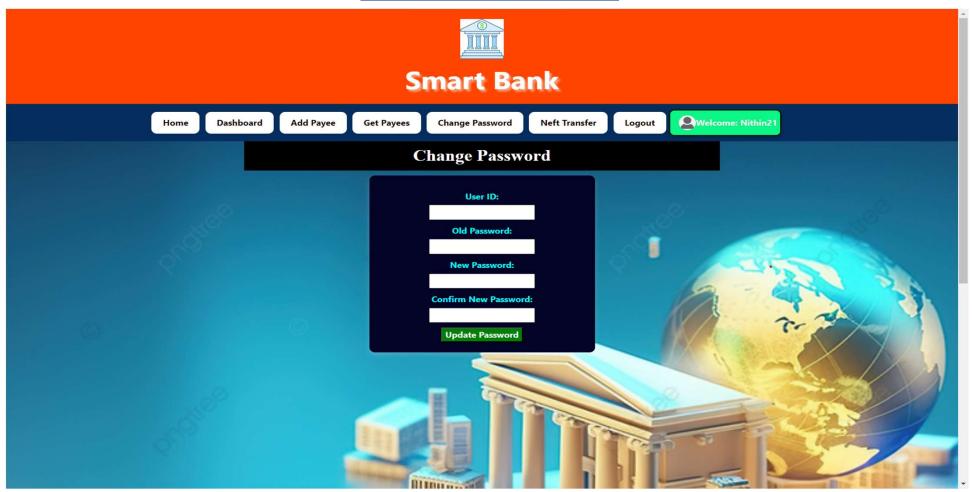


GET PAYEES



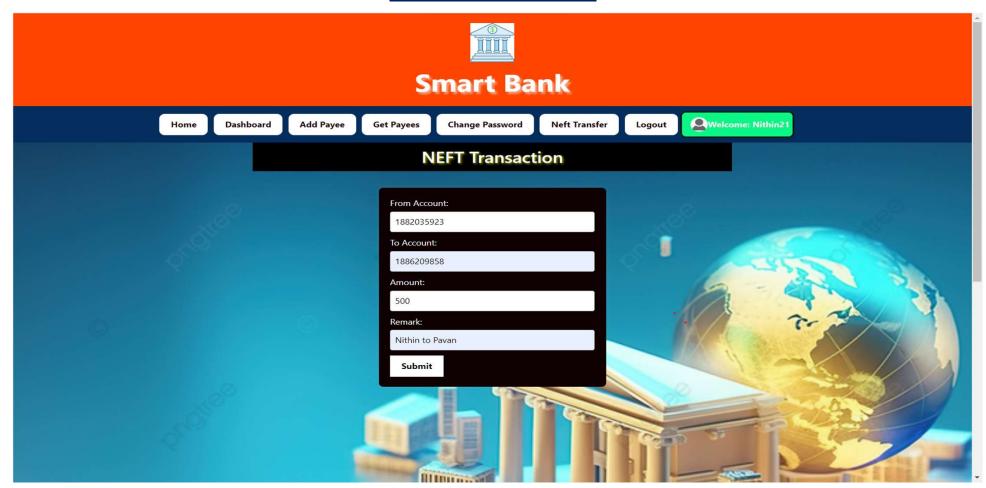


CHANGE PASSWORD



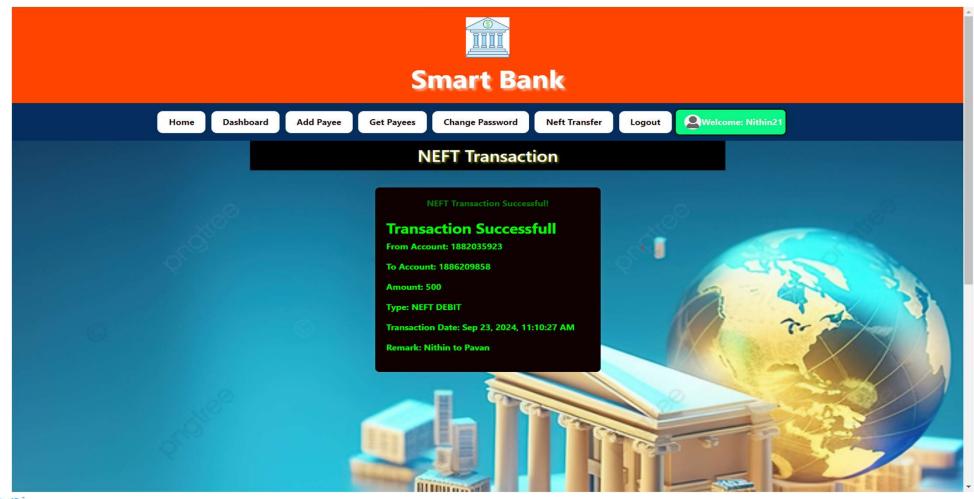


NEFT TRANSFER



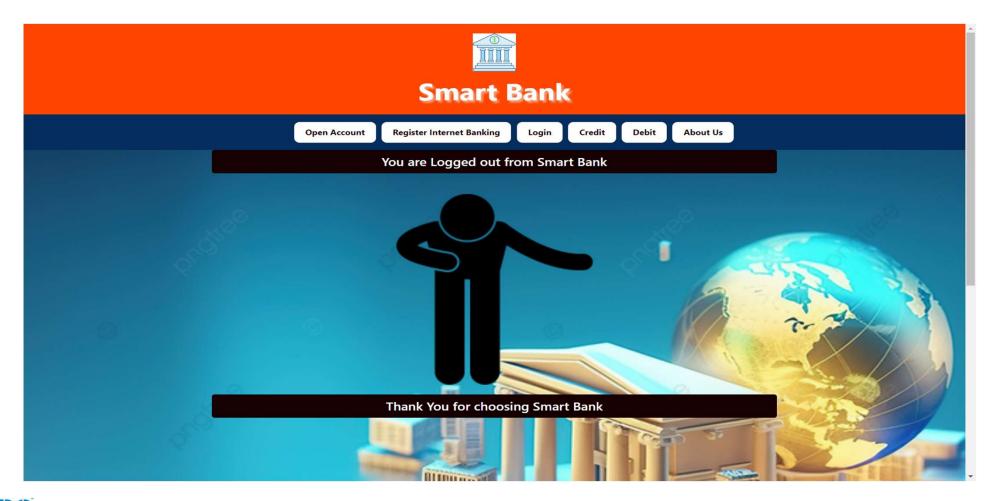


TRANSFER SUCCESSFUL



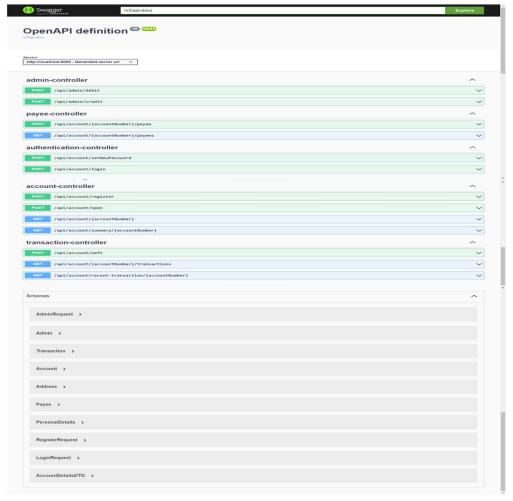


LOGOUT





SWAGGER





CONCLUSION

- > This project is designed to meet the requirements of an online banking system.
- ➤ We have designed the project to provide the user with an easy way to view his account profile do online transactions and other actions.
- In this project user is provided with a website that can be used for online banking.
- ➤ To implement this we have used SpringBoot as backend and Angular as Frontend.
- ➤ This website allows users to open, register for internet banking, login, view account details, account summary, statement, payees details, NEFT transfer.
- Admin is doing credit and debit transaction.



FUTURE SCOPE

- > This project can be upgraded by using phone OTP for user authentication.
- ➤ We can add different modes of money transfer.
- ➤ Application can be upgraded by improving performance as per user feedback.
- > There is a scope of adding more security.





