Secure Banking System using Blockchain Technology

Capstone Project
Review -2
Team -25

Project Title : **Secure Banking System using Blockchain Technology**

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Proposed Work

We aim to develop a web-based serverless application which works on a decentralized system for handling transactions between users ruling out the utilization of any centralized database.

All the transactions are to be verified by smart contract and stored in the Near Blockchain. The application will be built on the top of a cloud-based infrastructure which will be a community-operated cloud instead of a company-operated cloud.

Appropriate additional level of security measures will be implemented for the user authentication before any transactions occurs.

Software **Requirements**
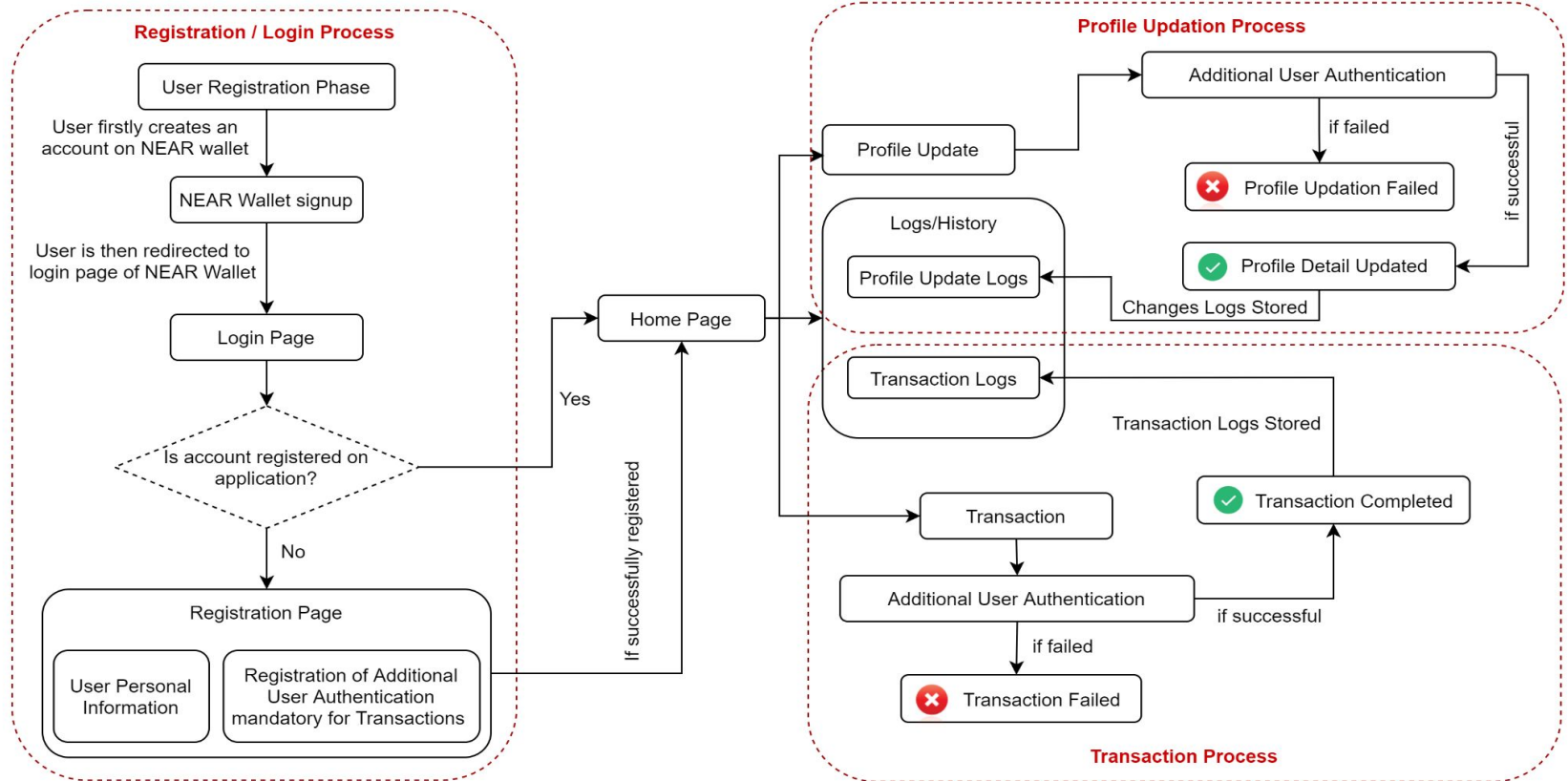
Frameworks

➔ React

➔ Material UI

➔ NEAR Blockchain

Languages

➔ JavaScript

➔ HTML & CSS

➔ AssemblyScript

IDE

➔ VS Code

Overall System Architecture Diagram

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Modules & Explanation

01. **Authentication Module :** User Registration & Login Process will be implemented under this module using NEAR wallet authentication.

02. **Profile Details Module :** Basic user details such as mobile, email, etc will be handled under this module.

03. **Transaction Module :** Money Transaction process between user accounts will be implemented.

04. **Logs & History Module :** Profile modification & transaction history will be managed under this module.

05. **Additional Authentication Module :** Second level authentication, for transaction purpose & profile updation, will be implemented in this module.

Work Completed Till Date

01. Registration of User Account.

    01.1 Application Connection with NEAR Wallet.

    01.2 User Account Creation on the Application.

02. Transaction Between Accounts.

    02.1 Transferring NEAR Token from one Account to another.

        02.1.1 Taking affirmative action from User through Passphrase.

    02.2 Storing the transaction logs at both the User Ends.

03. Implemented Recent User's Transactions History.

Anticipated Work To Be Done

01. User's Complete Transactions and Login History

02. User's Profile Updation

03. Money Transfer Request Feature

04. Money Transfer through QR

05. Device Responsive Design

THANK YOU