NEXT GEN EMPLOYABILITY PROGRAM

CREATING A FUTURE-READY WORKFORCE

Student Name :
Syed Zaid

Student ID :
STU6728d5c97889f1730729417

College Name :
MQI Degree College

CAPSTONE PROJECT SHOWCASE

Project Title

Z-cash

Abstract | Problem Statement | Project Overview | Proposed Solution | Technology Used | Modelling & Results | Conclusion | Q&A

Abstract

1. MongoDB
2. Express.js
3. React.js
4. Node.js

Problem Statement

- Managing financial transactions in a seamless, secure, and user-friendly manner is a challenge for individuals and businesses.
- Existing solutions often face issues like complex interfaces, slow processing, and limited integration capabilities.
- Users demand a single platform for payments, recharges, and financial services with high reliability and ease of use.

Project Overview

- The project involves creating a web-based application that mimics the core features of Paytm.
- Features include:
- User Authentication: Secure login and signup.
- Wallet Integration: Add and manage funds.
- Payments and Recharges: Utility bill payments, mobile recharges, etc.
- Transaction History: View detailed records of past transactions.
- The application is designed for scalability, performance,and with modern UI and ease of use.

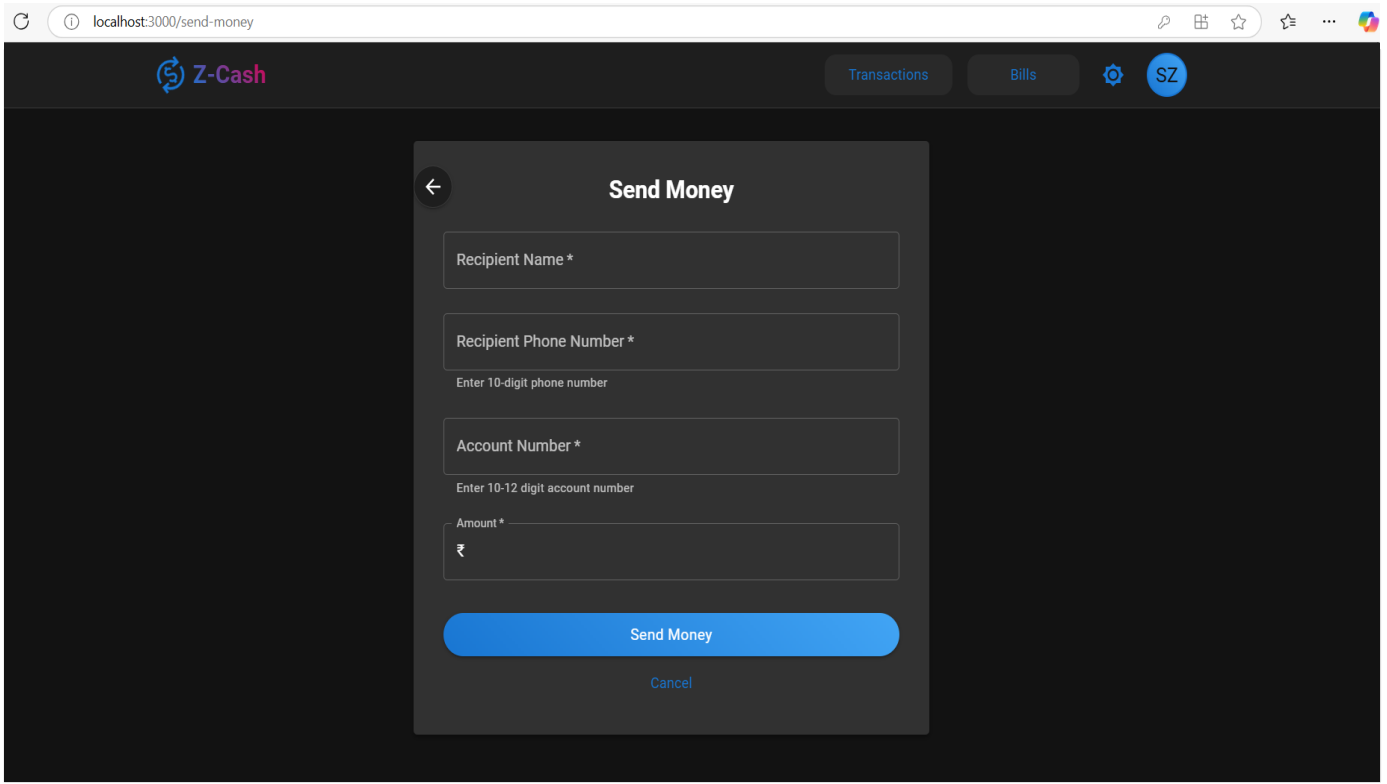
Proposed Solution

- A web application built using the MERN stack to provide a seamless and secure digital wallet experience.
- Features:
- Secure Transactions: Implementation of encryption protocols for data security.
- Intuitive Interface: A user-friendly UI for easy navigation and transactions.
- Real-Time Processing: Immediate updates and confirmations for payments and recharges.
- Scalability: Designed to handle large user bases and transaction volumes.

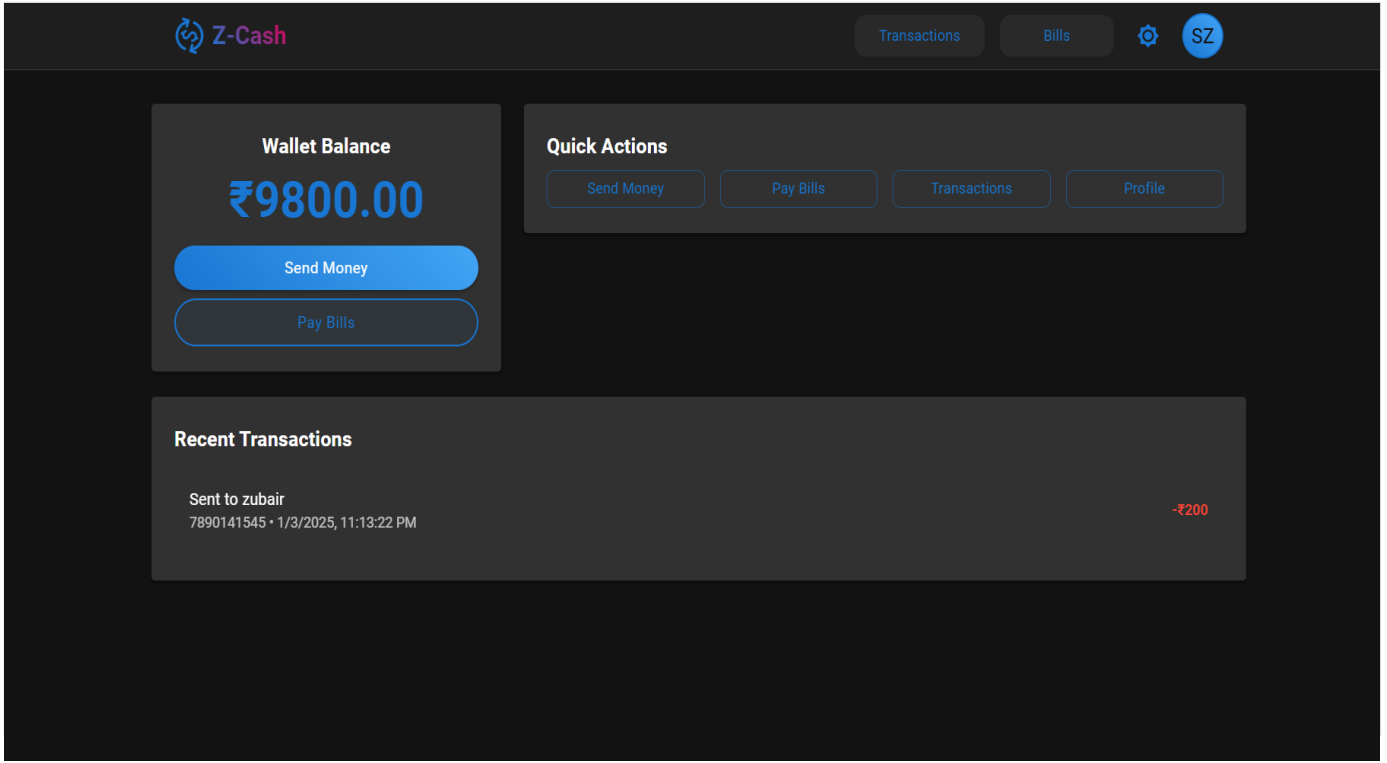
Technology used

- Frontend: React.js for building an interactive and responsive user interface.
- Backend: Node.js and Express.js for handling server-side logic.
- Database: MongoDB for managing and storing user and transaction data securely.
- Security: JSON Web Tokens (JWT) for user authentication and data encryption.
- Hosting: its done only on my git hub account.

Modelling & Result

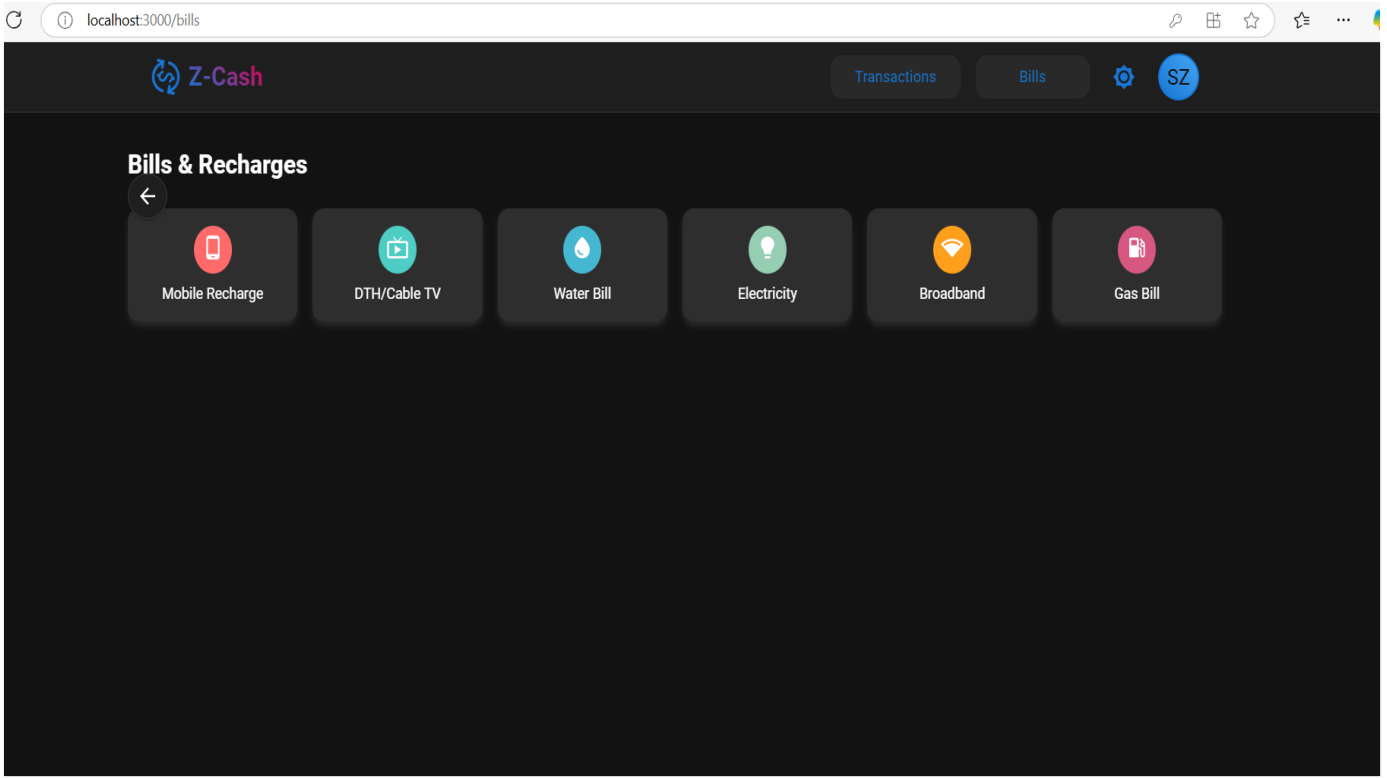


Modelling & Result



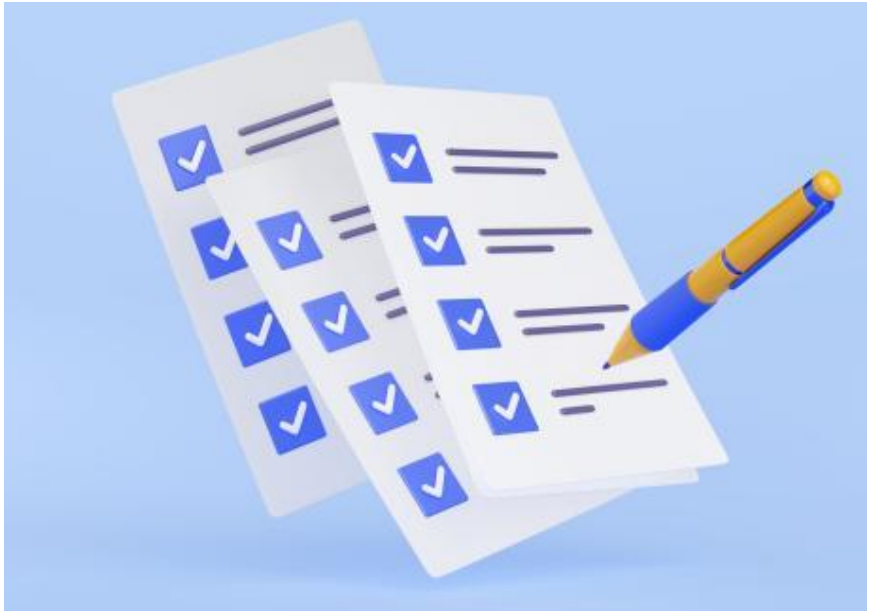
edunet foundation

Modelling & Result



Conclusion

- The Paytm clone app built with the MERN stack demonstrates a scalable, secure, and feature-rich digital wallet solution. It simplifies financial transactions, providing users with a seamless and intuitive experience. This project not only highlights the potential of full-stack development but also serves as a foundation for future enhancements, such as multi-language support and integration with external financial, ensuring relevance in a rapidly evolving digital ecosystem.



edunet
foundation