

NEXT GEN EMPLOYABILITY PROGRAM

CREATING A
FUTURE-READY
WORKFORCE

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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

The screenshot displays a web application interface for 'Z-Cash'. The browser's address bar shows 'localhost:3000/send-money'. The application has a dark theme with a top navigation bar containing the 'Z-Cash' logo, 'Transactions', 'Bills', a settings gear, and a user profile icon 'SZ'. A modal titled 'Send Money' is open, featuring a back arrow and four input fields: 'Recipient Name *', 'Recipient Phone Number *' (with a hint 'Enter 10-digit phone number'), 'Account Number *' (with a hint 'Enter 10-12 digit account number'), and 'Amount *' (with a rupee symbol '₹'). At the bottom of the modal are 'Send Money' and 'Cancel' buttons.

localhost:3000/send-money

Z-Cash Transactions Bills SZ

Send Money

Recipient Name *

Recipient Phone Number *

Enter 10-digit phone number

Account Number *

Enter 10-12 digit account number

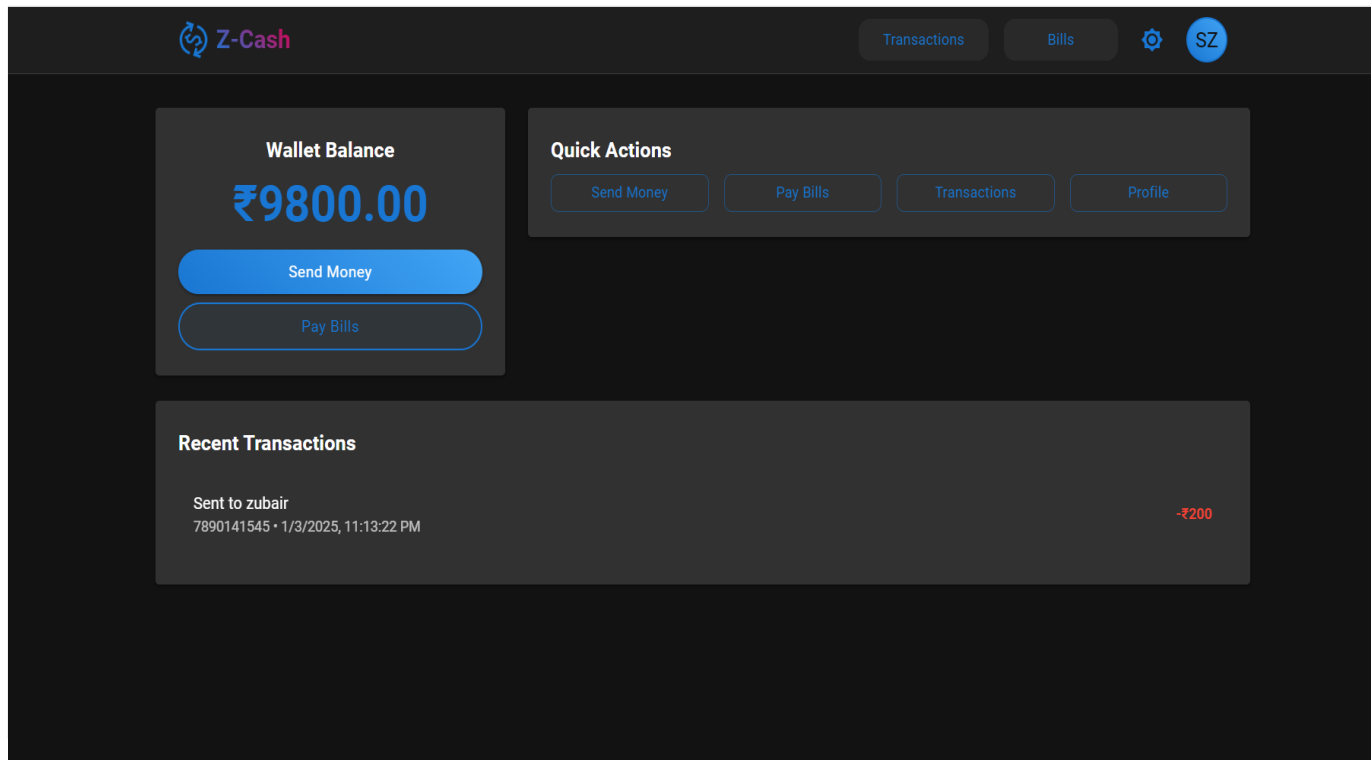
Amount *

₹

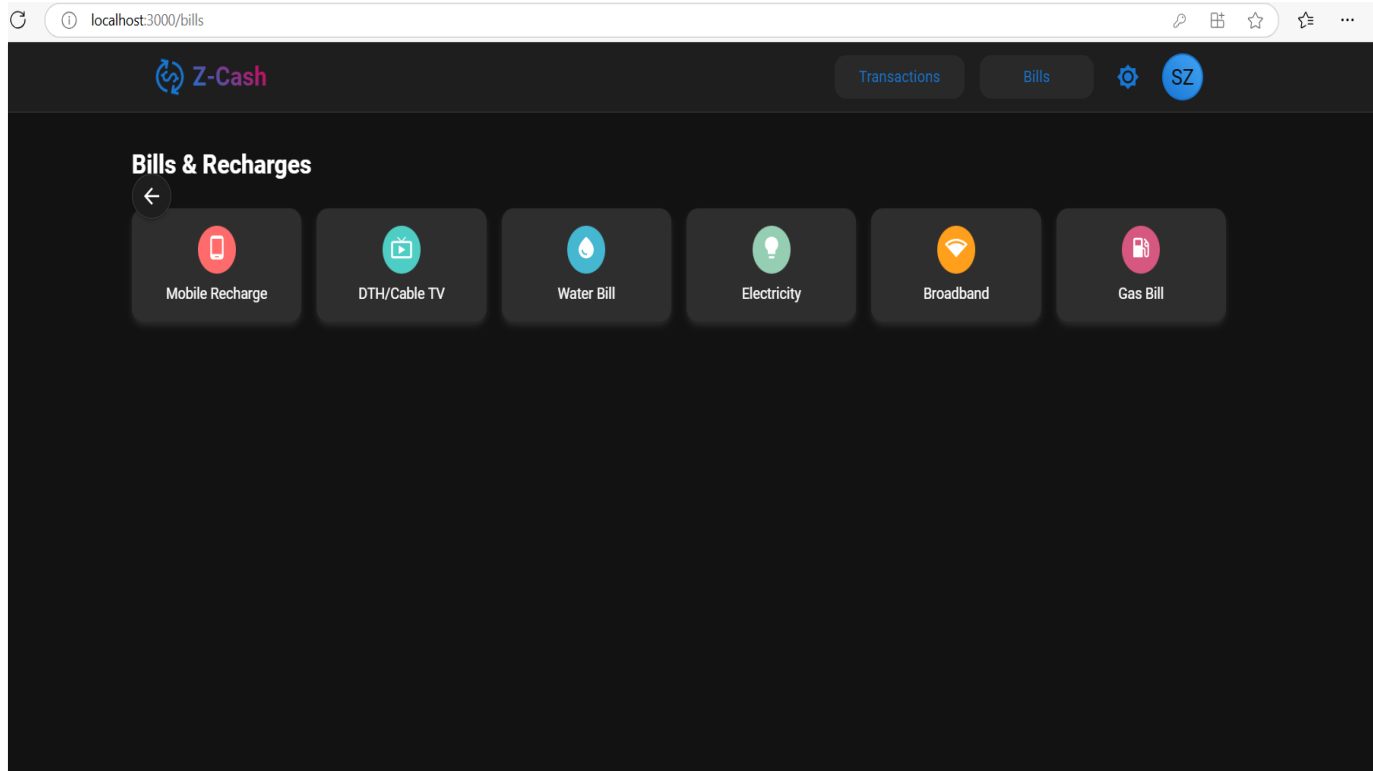
Send Money

Cancel

Modelling & Result

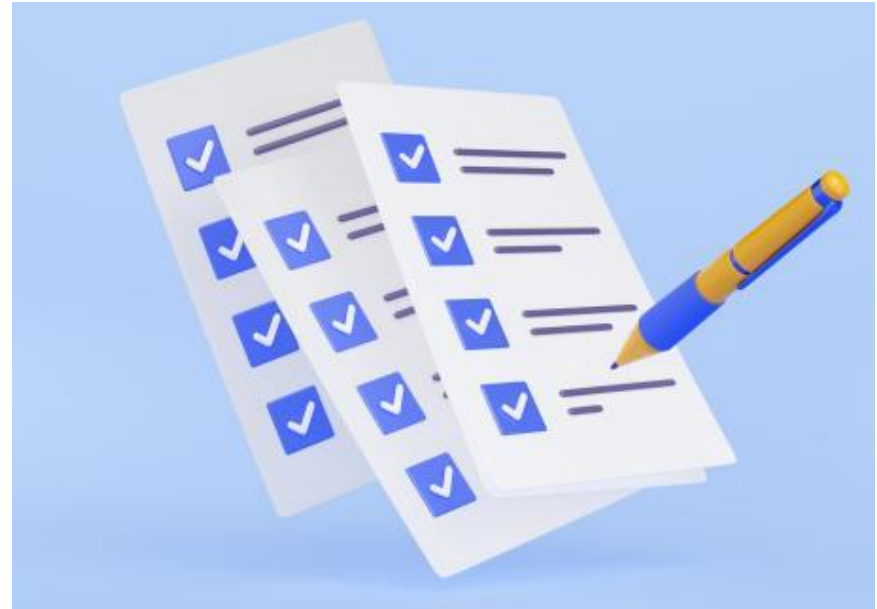


Modelling & Result



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.





Thank you!

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