ATM Bank System - Next.js

Introduction

The ATM Bank System is a web-based application developed using Next.js. It simulates the functionalities of an Automated Teller Machine (ATM), allowing users to perform banking operations such as checking balances, withdrawing money, and depositing funds in a secure and interactive environment.

Features

- **User Authentication**: Secure login and registration using NextAuth.js.
- **Balance Inquiry**: Users can check their account balance.
- **Deposit & Withdrawal**: Users can deposit and withdraw funds securely.
- **Transaction History**: Displays a detailed list of past transactions.
- **Servicing**: The Money inside the ATM is restocked.
- **PIN generation**: The user can generate new PIN for the ATM card.

Technologies Used

- **Next.js**: React framework for server-side rendering and fast performance.
- **NextAuth.js**: Secure authentication and session management.
- **Tailwind CSS**: Provides a responsive and modern UI.
- **MongoDB / Firebase**: Database for storing user transactions and balances.
- **API Routes**: Next.js API for handling transactions securely.

How It Works

1. **User Authentication**: Users sign up and log in securely.
2. **Dashboard Access**: After logging in, users see their balance and transaction options.
3. **Deposit Money**: Users can add funds to their virtual account.
4. **Withdraw Money**: Users can withdraw funds within account limits.
5. **Transaction History**: A detailed list of transactions is available.
6. **Servicing**: The current money inside ATM is represented and can be restocked.
7. **PIN generation**: A User can generate a new PIN for the ATM card.

Deployment

The application can be deployed on **Vercel**, making use of Next.js' built-in optimizations.

Conclusion

This ATM Bank System provides a practical and interactive banking experience. Built with Next.js, it ensures security, performance, and ease of use for users managing virtual transactions.