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SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI.

Department of Computer Science and Engineering

Academic Year : 2023-2024

Semester: Sixth

A PROJECT REPORT ON

BANK ACCOUNT MANAGEMENT SYSTEM

Submitted for

SOFTWARE ENGINEERING LAB

Submitted in

April 2024

Under The Guidance Of

Prof. S. N. Sawalkar

SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI

CERTIFICATE

This is to certify that this mini project report entitled

" BANK ACCOUNT MANAGEMENT SYSTEM "

has been completed by the following students in the partial fulfillment of project work of the Sixth semester, Department of Computer Science and Engineering, During the Academic Session of 2023-2024. This is the record of their work under my guidance and to my immense satisfaction.

Prof. S. N. Sawalkar

Project Guide

Dr. V.K. Shandilya

HOD

(Dept. Computer Science& Engineering)

ACKNOWLEDGEMENT

We take this opportunity to express our deep sense of gratitude and hearted thanks to our project guide **Prof. S. N. Sawalkar** for her invaluable guidance, inspiration, and encouragement. It is because of her that we could synchronize our efforts. We also express our sincere thanks to our Head of Department **Dr. V.K. Shandilya** and Principal **Dr. Sanjay M. Kherde** for their tremendous support, encouragement and invaluable guidance throughout our project. We shall be failing in our duties until and unless we express our sincere thanks to all the faculty members, both teaching and non-teaching Staff, and our friends who have directly or indirectly contributed of our project work.

Group members:

1. Jagrut Thakare
2. Yogesh Bawankar
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4. Sarang Khode
5. Tanuja Deshpande

SIPNA C.O.E.T., Amravati.

INDEX:

Abstract

The **“Bank Account Management System”** is a Java-based application designed to streamline banking processes and enhance user experience. This software allows users to perform various banking tasks efficiently, offering functionalities beyond traditional banking systems. By automating tasks such as data entry, validation, confirmation, and updating, the system significantly reduces transaction time. The project focuses on effective requirements definition and management, ensuring compliance and customer satisfaction. Through careful analysis and system specifications, the software provides a user-friendly interface for both administrators and customers. By improving transaction efficiency and adhering to deadlines and budgets, this system delivers a high return on investment for organizations

Introduction

The **“Bank Account Management System”** is an internet banking platform that allows customers to conduct various banking transactions from the comfort of their homes or offices using a PC or laptop. Users can create accounts, deposit/withdraw cash, and view account reports online. This system transforms traditional banking into a virtual, accessible model, ensuring global, round-the-clock banking services. The project emphasizes an adaptable design methodology to accommodate future expansions, employing a modular approach for application software development. Account holders can easily join the system by submitting personal details and account numbers. Effective bank management is crucial for maintaining customer trust and satisfaction. Efficient management not only ensures customer and staff contentment but also aids in strategic decision-making for the bank's growth. As the world becomes increasingly computerized, the need for streamlined bank management software is evident. The system enables online transactions within the same bank or internationally, eliminating the limitations of manual processes. It addresses the challenges of managing a bank efficiently in today's fast-paced, computer-oriented world.

Software Requirements

The technology selected for implementing Bank Account Management System is JAVA, SWING, MYSQL. The Development was done in Visual Studio Code.

Frontend Technologies :-

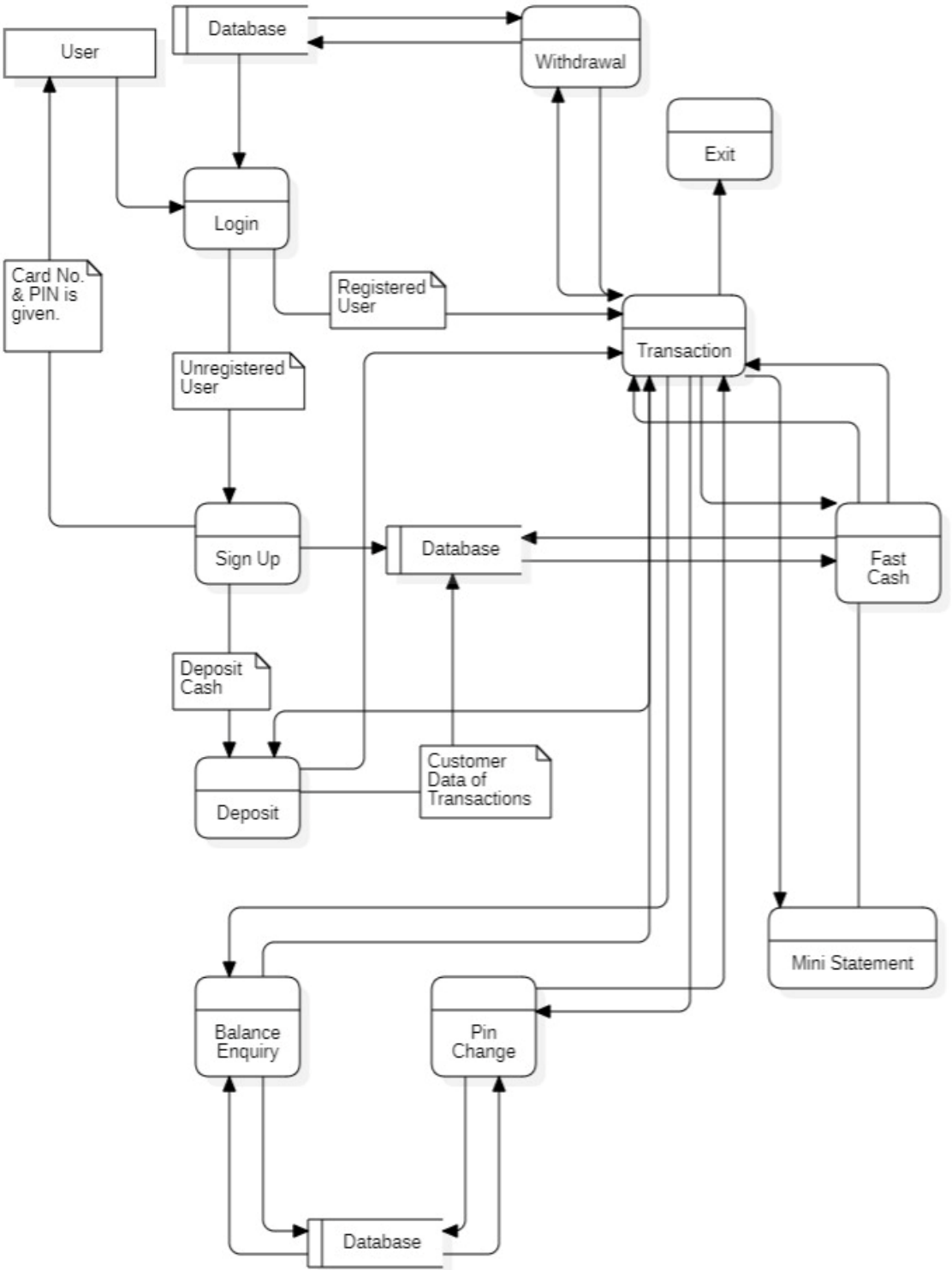
- JAVA SWING :- Java Swing is a GUI (Graphical User Interface) libraries for Java. You can use these libraries to create desktop applications with forms, tables, and other UI components. You can connect these applications to a database using JDBC (Java Database Connectivity) to perform CRUD (Create, Read, Update, Delete) operations.

Backend Technologies :-

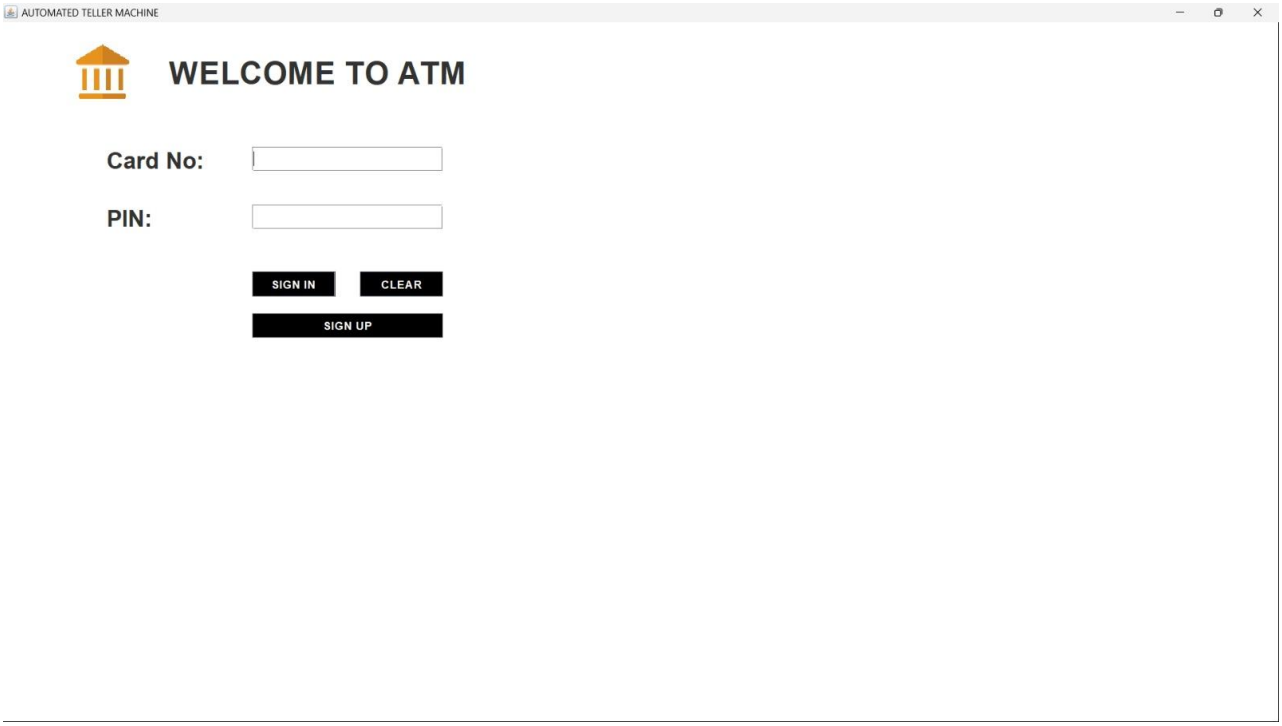
- JAVA SWING :- Java Swing is a GUI (Graphical User Interface) libraries for Java. You can use these libraries to create desktop applications with forms, tables, and other UI components. You can connect these applications to a database using JDBC (Java Database Connectivity) to perform CRUD (Create, Read, Update, Delete) operations.

- MYSQL :- MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data.

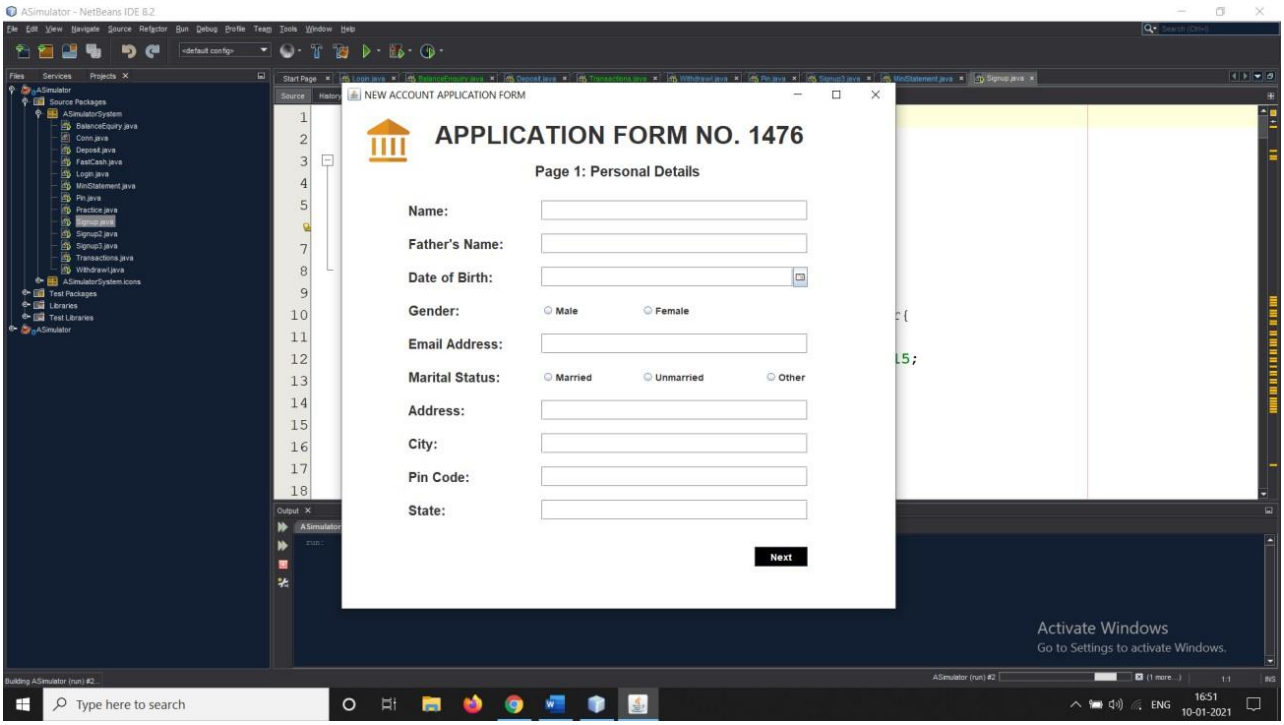
DFD - Diagram


User
Database
Withdrawal
Exit
Login
Card No. & PIN is given.
Registered User
Transaction
Unregistered User
Sign Up
Database
Fast Cash
Deposit Cash
Customer Data of Transactions
Deposit
Mini Statement
Balance Enquiry
Pin Change
Database

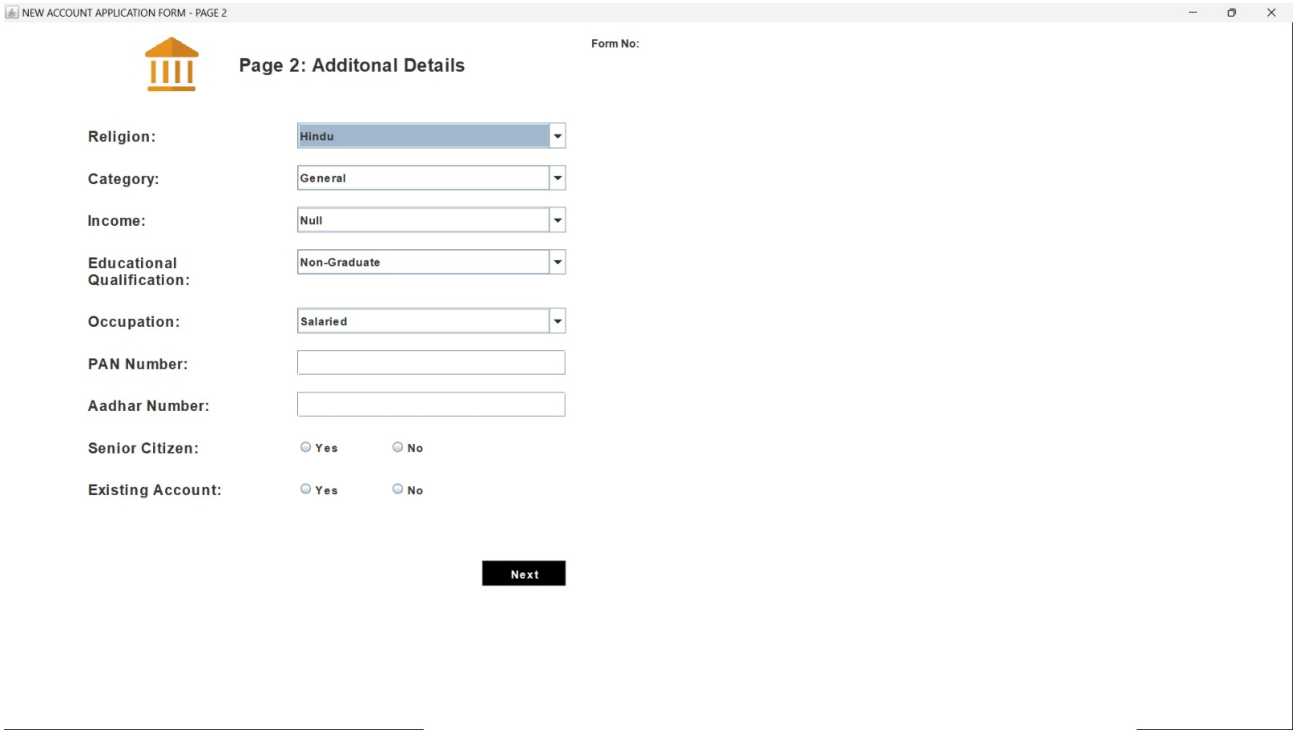
Snapshots :-



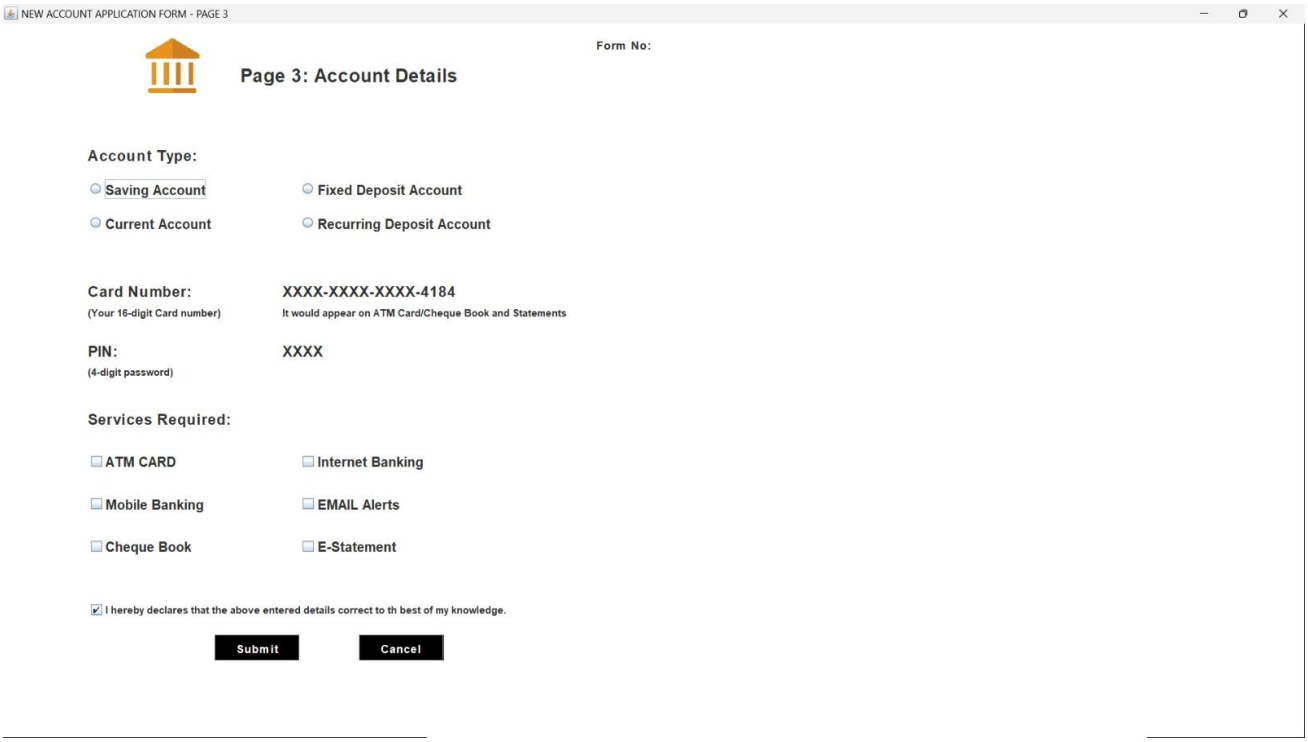
1. Sign In/Sign Up Page



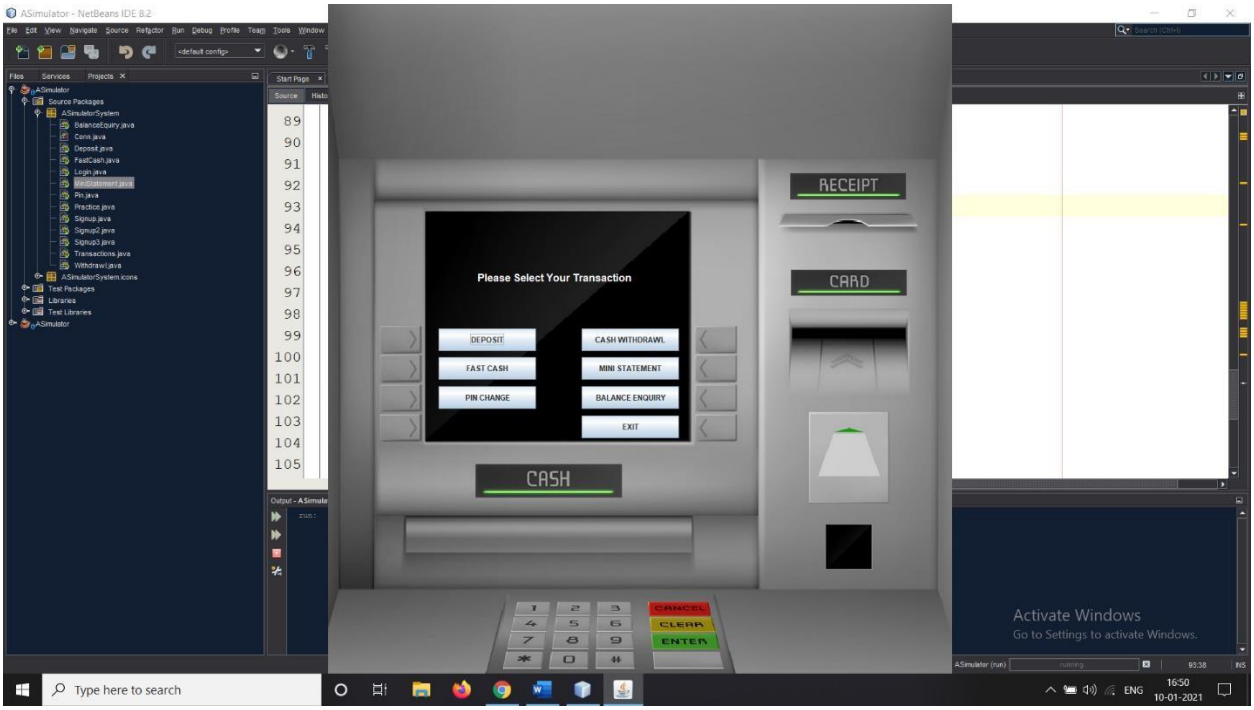
2. Application Form Page



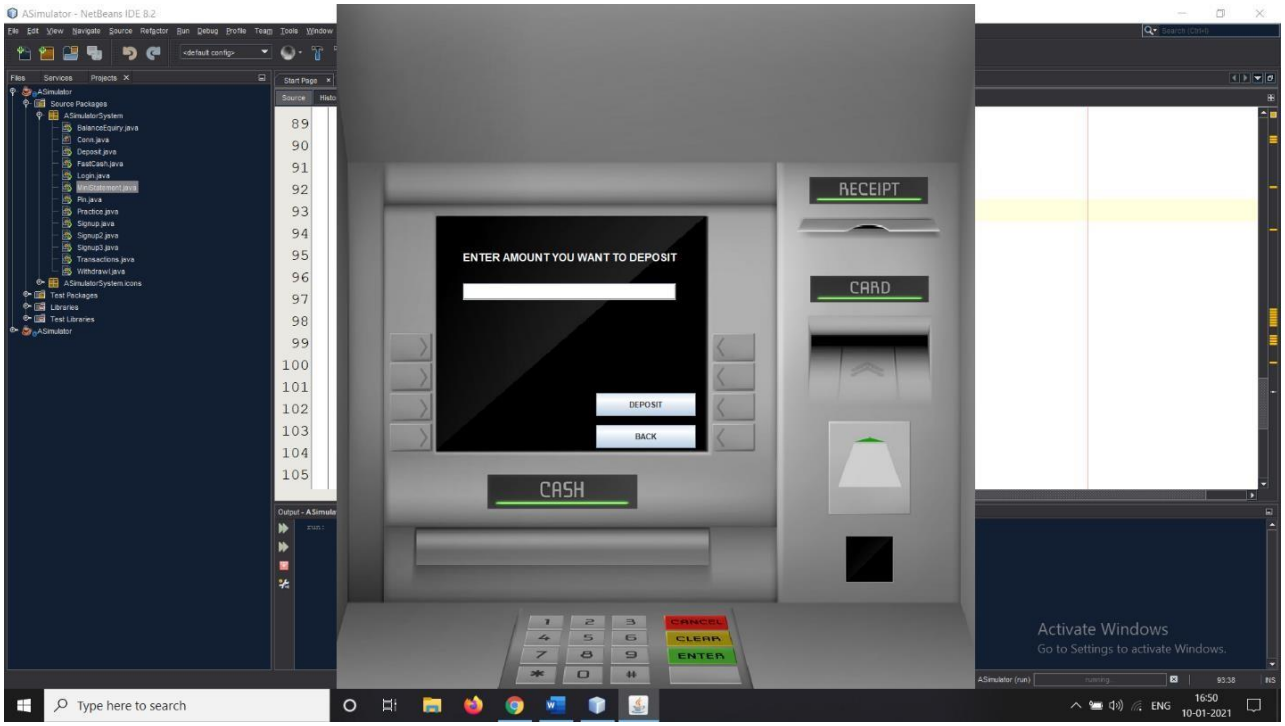
3. Additional Details Page



4. Account Details Page



5. Transaction Page



6. Amount Deposit Page

Conclusion

The "Bank Account Management System" is a Java-based application integrating Java Swing for frontend and MySQL for backend, enabling users to perform online banking tasks seamlessly. With its intuitive interface and robust functionality, it empowers users to create accounts, manage transactions, and access financial reports effortlessly. By automating processes and ensuring secure data handling, the system enhances banking efficiency and customer satisfaction, setting new standards for modern banking experiences.