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**Project Report**

On

“Bank ATM Simulation”

**SUBMITTED BY-**

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**Class: FYMCA(Sem-I)**

**Roll No: 11**

UNDER THE GUIDANCE OF

**Prof. Swayam Shah**

Savitribai Phule Pune University

**MASTER OF COMPUTER APPLICATION**



JSPM'

JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING

**MCA Department**

For Academic Year 2023-24







This is to certify that, **Pushkar Chandrakant Chavan** has successfully completed the project work namely **Bank ATM Simulation** as prescribed by the university in the partial fulfilment of the requirement of the **Master of Computer Application (MCA)** program for the academic year 2023-24.

Date:

**Project Guide** **External Examiner**  **Head of Department**

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**Pushkar Chandrakant Chavan**

**Table of Contents**

Chapter 1. Introduction………………………………………1

1.1 Project Profile…………………………………2

1.2 Existing System………………………………3

1.3 Scope of Project………………………………

1.4 Operating Environment- H/W & S/W………..

1.5 Tools Information…………………………….

Chapter 2. Proposed System…………………………………

2.1 Proposed System……………………………….

2.2 Modules of Proposed System…………………

2.3 Objective of System……………………………

2.4 Feasibility Study……………………………….

Chapter 3. ER Diagram & OTHER UML DIAGRAMS………

Chapter 4. Limitations / Drawbacks………………………….

Chapter 5. Future Enhancement ………………………………

Chapter 6. Conclusion………………………………………

Chapter 8. References……………………………………….

* **Scope of the System :-** The Java Bank ATM Simulation project is a comprehensive software solution that simulates ATM operations while also offering the functionality to create and manage bank accounts. This project provides users with a realistic ATM experience and extends its capabilities to include the dynamic creation and management of bank accounts.

## Problem Statement :- Traditional ATM testing and training methods often require access to real ATMs, which can be costly and less secure. Additionally, educating users and bank employees on ATM operations can be challenging without a dedicated training platform. The Bank ATM Simulation project addresses these issues by providing a realistic, secure, and cost-effective solution for ATM testing, training, and user familiarization.

## Existing System :- Currently, most banks and financial institutions conduct ATM training using real ATMs, which may risk security breaches and incur expenses for the maintenance and transportation of the ATMs. Users, including bank employees and customers, are often trained on real ATMs, which can lead to operational errors and security vulnerabilities. It also provides knowledge about working of ATM.

## Proposed System :- The system customer transactions, satisfies the requirements of the existing system in full-fledged manner. Through this system, customer can make fast transactions and view the last transactions easily. Customer can also create account or login system. And customer also can create ATM card through this System.

## Actors of the System :-

1. Customer
2. ATM Machine
3. Admin

## Project modules :-

1. **User Interface** - Develops a user-friendly interface for both ATM and customers.
2. **ATM Integration**- Handles cash withdrawals, deposits, and other ATM-related transactions.
3. **Customer Management** - Provides features for customer registration and profile management.
4. **Bank Account** – It provides functionality for bank account creation and login.

## Hardware and Software Requirements :-

* **Software Requirements**
* **Front End** - JAVA, AWT, Swing for GUI
* **Back End** - MySQL Relational Database
* **Operating System** – Windows, Linux or Mac
* **Hardware Requirements**
* Hard Disk – 2 GB.
* RAM – 1 GB.
* Processor – Dual Core or Above.
* Mouse.
* Keyboard.
* Monitor.
* **E-R Diagram :-**