

ATM

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1 Project Title

We are very glad to introduce our project "D-SMATM". It is an idea which can provide help to the users in the current scenario of the ATM providing them with the facilities both the present ATM facilities and cash deposit KIOSK.

2 Problem Statement

D-SMATM system is a banking software developed to provide 24hrs facility to their customer at the nearest location to them; therefore customer can do their transaction at any time at any place. This software is also help for bank, to minimize crowding of customer in bank premises & pressure of work on bank servants.

Now a day each company or organization prefers the computerized paper-work. Definitely the computer system is more reliable than the manual works. The common human errors can be eliminated with the help of this project.

The most important function of D-SMATM process is to help the organization in automating the entire guide processing of the present approach. This undertaking must aid multi person environment. The procedure is absolutely automated. D-SMATM system is designed to solve the cause of clarifying method requirement. This process should be competent to manage particularly huge volumes of knowledge. This procedure will have to capable to maintain monitor of all detailed description of the account holder of banks.

The following details are involved in this D-SMATM system project,

- D-SMATM Card holder /account /bank customer detail.
- Balance detail of each ATM card holder.

3 Project Description

We are very glad to introduce our project "D-SMATM". It is an idea which can provide help to the users in the current scenario providing them with the facilities of both the present ATM and a cash deposit KIOSK.

D-SMATM will be a trend setter which will change instant banking forever. This project provides a platform for the training as well as for immediate implementation.

Considering the current scenario where the system is been digitalized this will serve as a training platform for the under privileged as well as for the rural people to get acquainted with the present system operating in the market.

The D-SMATM is a automated telecommunications tool that offers the consumers of a financial school with get entry to fiscal transaction in a public space without the want for a human clerk or bank teller. On highest current ATMs, the buyer is identified by way of making use of inserting a plastic ATM card with a magnetic stripe or a plastic smartcard with a chip that includes a absolutely certain card range and a few security information. ATMs are acknowledged through numerous other names including computerized banking system, cash device, bank system, cash gadget and Any Time money in India.

An ATM card (also referred to as a bank card, customer card, or money card) is an ISO 7810 card issued by way of a financial institution, credit score union or building society, in contrast to a debit card, in-shop purchases or refunds with an ATM card can generally be made in character only, as they require authentication via a personal identification range (PIN). In other words, ATM cards cannot be used at merchants that only accept credit cards.

3.1 Scope of the Work

As this is software it can be used by a wide variety of banks to automate the process of manually maintaining the records related to the each transaction of bank account holder. The main goal of this application is to provide very reliable & efficient service to bank account holder at any time & any location.

This system will cover the following modules,

- Cash Withdrawal.
- Balance Enquiry.
- Fund Transfer.
- PIN Change.
- Cash Deposit.
- Fast Cash.

3.2 Project Modules

- **Cash Withdrawal :-**

This module will assist the end customer for withdrawal of cash as per customer demand. For any authorized ATM card holder the ATM system requests for its Aadhar Card number and PIN number then customer login in to their accounts, then amounts are given to system and customer can withdraw amount.

- **Balance Enquiry :-**

This module will assist the end customer to check the present account balance of an authorized ATM card holder.

- **Fund Transfer:-**

This module will assist the end customer to transfer the amount from one account to another account.

- **PIN Change:-**

This module will assist the end customer to change the PIN number of an authorized ATM card holder. In this module system will require old PIN number of its ATM card and then giving new PIN number for its ATM card.

- **Cash Deposit:-**

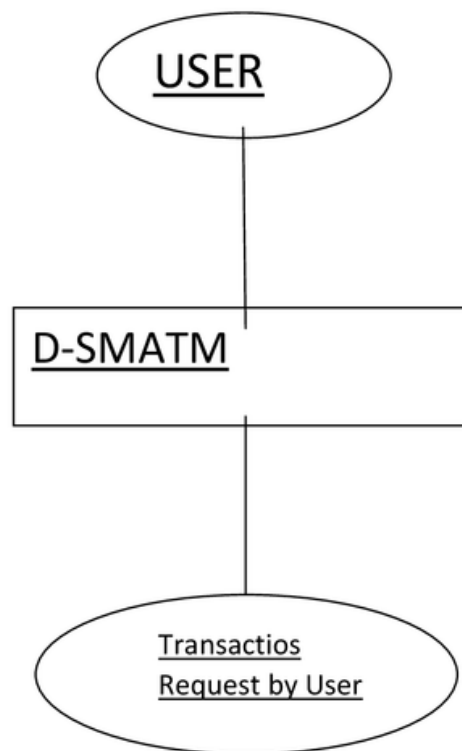
This module will assist the end customer to deposit cash amount in their bank account as per the customer demand. It is easy process of deposit amount to their bank accounts without filling deposit slip.

- **Fast Cash:-**

This module allow the customer to withdraw a predetermined amount of money only. It is comparatively faster to normal cash withdrawal module in which the user has to enter the withdrawal amount for withdrawing the cash.

3.3 Context Diagram (High Level)

The High-Level Diagram or Level-0 DFD (CONTEXT DIAGRAM) can be shown as below:

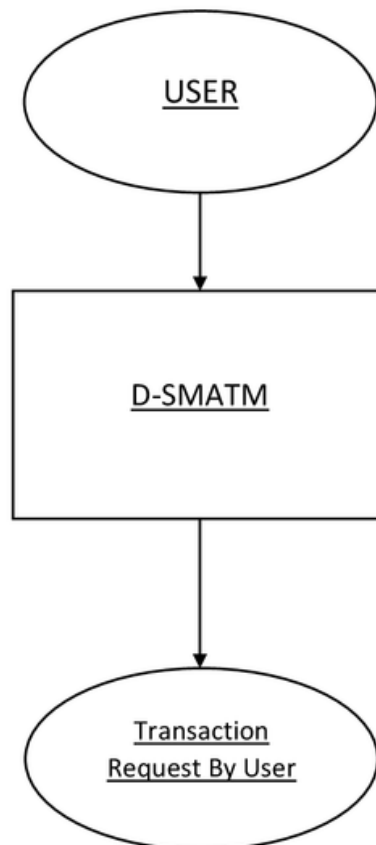


4 Implementation Methodology

'D-SMATM' has purely been designed using Net beans I.D.E as the front end and MySQL database as the back-end software.

The process of designing the whole system can be seen from the context diagram or the Level-0 diagram and the Level-1 diagram which includes all the modules, data items and processes involved in the whole Project implementation.

The Level-0 DFD associated with the implementation is as follows:-



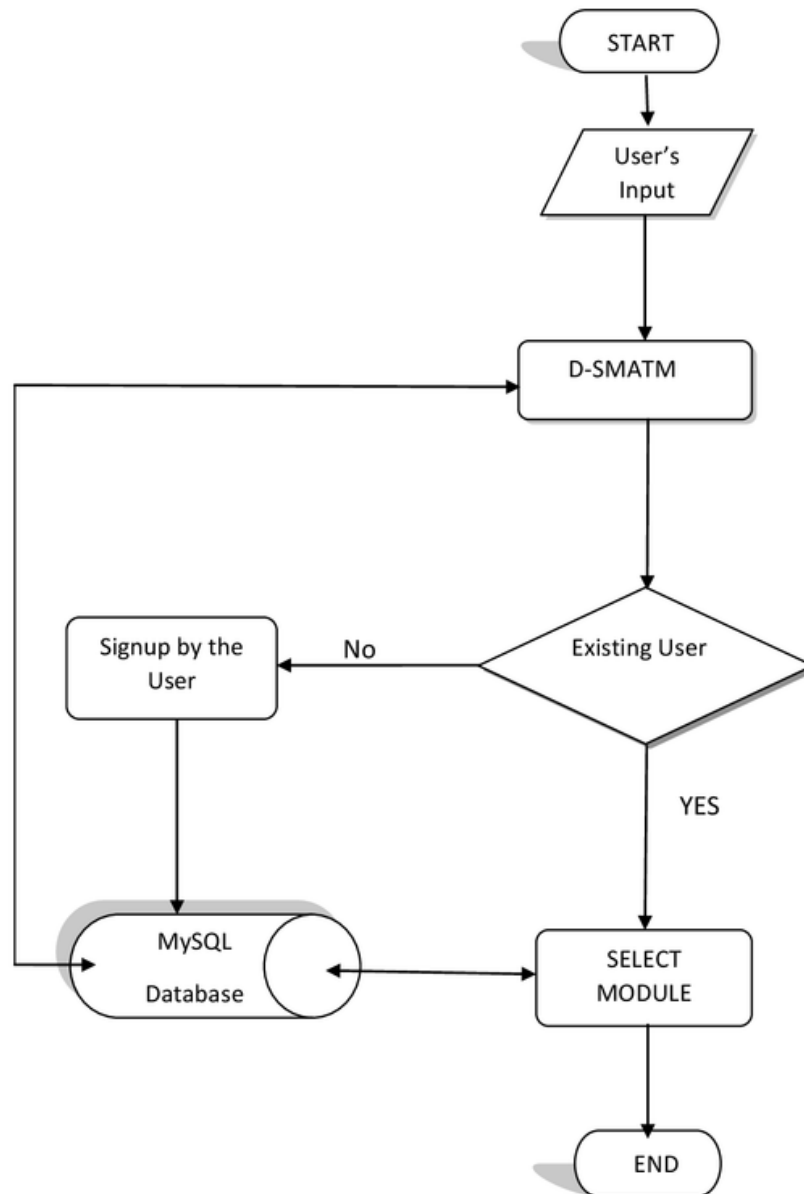
Implementation Strategy:

Front-end=NETBEANS IDE 6.5.1

Back-end=MySQL Database

- User interacts to the 'D-SMATM' using the main module [JFrame]
- For opening its account user goes to signup option, then user fill all the required entries demanded by the system and finally click the SUBMIT button. (Now the user have the account from which user can apply for different transaction. The data store in the database.)
- If the existing user comes in then he just has to login to avail the facilities of the D-SMATM.
- Now the user selects the facility he wants to use.
- On selecting the desired facility, the system transfer control to the correspond module.
- Here the user now fills the required fields as demanded in the module.
- The module ask for the confirmation after filling all the required fields.
- Now the module hands over the control to the database of the system which compares the information provided by the user, with the existing data already stored.
- If a match is found, the data is updated else the user is asked to fill the data again.

FLOWCHART:



MAINTENANCE:

1. Preventive Maintenance

Preventive Maintenance prevents unauthorized access or login to the system along with preventing the user to provide incorrect data.

2. Corrective Maintenance

Corrective maintenance can include the improvisation in the memory heap used in My Sql to increase its working time during the whole execution of the project.

3. Adaptive Maintenance

'D-SMATM' can be easily ported to different platforms including Mac OS, Ubuntu etc. by using the Netbeans IDE compatible to the corresponding platform.

3

5 Technologies to be used

5.1 Software Platform

(a) Front-end

'NETBEANS INTEGRATED DEVELOPMENT ENVIRONMENT (I.D.E)'

VERSION USED: NETBEANS I.D.E 8.1

(b) Back-end

'MySQL DATABASE'

VERSION USED: MySQL 5.1.33

5.2 Hardware Platform

LEAST HARDWARE REQUIREMENTS:

9

PROCESSOR: 800 MHz Intel Pentium III or equivalent.

RAM: 512 MB

Hard Disk: 800 MB of Free Disk Space.

OS: Microsoft Windows XP/7/8/10.

Browser: Opera (Recommended), Chrome, Mozilla Firefox etc.

RECOMMENDED HARDWARE CONFIGURATIONS:

8

PROCESSOR: 2.6 GHz Intel Pentium IV or equivalent.

RAM: 2 GB

Hard Disk: 850 MB of Free Disk Space.

OS: Microsoft Windows XP SP3/7/8/8.1/10, Ubuntu 11.04, Macintosh OS X 10.6 Intel.

Browser: Opera (Recommended), Chrome, Mozilla Firefox etc.

5.3 Tools

The tools that are used in 'PROJECT D-SMATN' are as follows:

1. Tool Name:NetBeans IDE

Vendor Name:Oracle

Version Number:8.1

Netbeans is authorized IDE for Java 8.1.IDE provide editors,code analyzers, and converters, by which we and swiftly and without difficulties revamp our applications to utilize new Java 8 dialect develops. Bunch analyzers and converters are provided to seek through numerous applications in the meantime, coordinating examples for transformation to new Java 8 dialect develops.

As its periodically upgradation and Java Supervising, numerous rich elements and a broad scope of instruments, formats and tests, NetBeans IDE sets the standard for creating with bleeding part innovations out of the crate.

2. Tool Name: MySql Essential

Vendor Name:Oracle

Version Number: 5.1.133

The MySQL™ software delivers a very fast, multi-threaded, multi-user, and robust SQL (Structured Query Language) database server. MySQL Server is intended for mission-critical, heavy-load production systems as well as for embedding into mass-deployed software. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. MySQL is a trademark of Oracle Corporation and/or its affiliates, and shall not be used by Customer without Oracle's express written authorization. Other names may be trademarks of their respective owners. The MySQL software is Dual Licensed. Users can choose to use the MySQL software as an Open Source product under the terms of the GNU General Public License.

3. Tool Name:MySQL Workbench

Vendor Name:Oracle

Version Number: 5.1.33

MySQL Workbench is a introduced together visible gadget for database planners, engineers, and DBAs. MySQL Workbench gives knowledge demonstrating, SQL advancement, and far attaining organization gadgets for server design, consumer organization, reinforcement, and a best deal extra. MySQL Workbench is out there on windows, Linux and Macintosh OS X. MySQL Workbench gives designers an entire arrangement of visual apparatuses to make, alter, and oversee SQL questions, database associations and articles. MySQL Workbench gives a visible aid to without difficulty oversee MySQL instances and increase higher perceivability into databases. Engineers and DBAs can utilize the visual apparatuses for designing servers, directing purchasers, performing reinforcement and restoration, investigating review information, and survey database wellbeing.

6 Advantages of this Project

- You didn't need to carry money with you.
- In lost or stole condition of your card, the cheat can't get your cash without your PIN.
- You can utilize it to pay at some retail shops.
- ATMs keep your money safe.
- You can withdraw your money anywhere and anytime. The banks don't should be open.
- ATMs provide the comfort of numerous areas. You can withdraw your money from any bank that is a piece of the framework to which your ATM card is connected.
- Your ATMs can only be access by its PIN, securing cash.
- You don't have to fill slips as is required at the bank for transactions.

- Banks are slower than setting off to the ATMs due to time taken by long lines.

3

7 Assumptions, if any

NONE

8 Future Scope and further enhancement of the Project

The primary goal of this examination work is to recreate an ATM framework that would think about the money store angle. Notwithstanding the previously mentioned objective, it will incorporate other target, for example,

- To render precise administrations to client.
- The decrease of false exercises.
- To accomplish quick preparing of client information.
- To decrease mistake preparing, the assurance of increment security.

9 Project Repository Location

1.				
2.				

10 Definitions, Acronyms, and Abbreviations

Abbreviation	Description
D-SMATM	Smart Automated Teller Machine
No.	Number
Rs.	Rupees
J.D.B.C.	Java Database Connectivity
A.P.I.	Application Programming Interface
I.D.E.	Integrated Development Environment

11 Conclusion

This venture to a great extent goes for reenacting the working of the atm machines to convey data to the provincial territories of the general public. After we have finished the venture we are certain that issue in the current framework would overcome. "D-SMATM" prepare has been electronic diminished human mistake and to build the proficiency. The fundamental concentration of this venture is to reduce human endeavors. The upkeep of record is made productive, as every one of the records are put away in the database through which the information can be recovered effectively. The route control is given in all shape to explore through vast measure of records. Our primary point of the venture is to give revise managing an account administrations to client of the bank whenever wherever.

The previous problems of the system have been removed to large extent. The automation of the "D-SMATM" will not only enhancing the efficiency but it will also reduce human stress by indirectly ameliorate human resources.

12 References

Material referred for the development of this “D-SMATM” is as follows.

1. Complete Reference Java
(By Mr. Herbert Schilt)
2. Information Practice XII
(Sumita Arora)
3. Software Engineering
(Mrs. Sharada Patil)

Website Reference:-

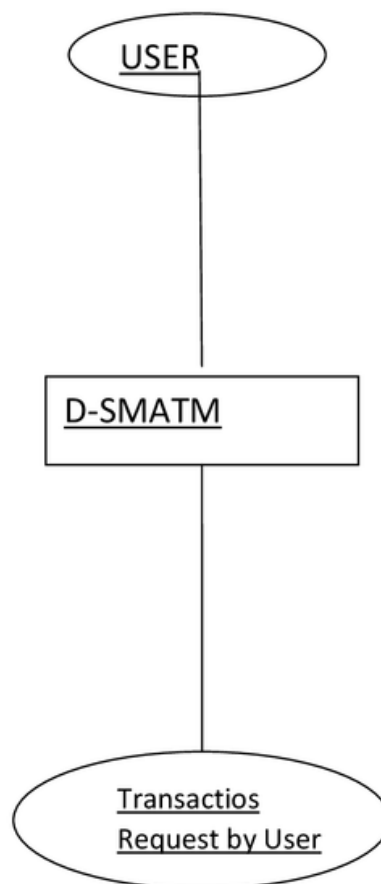
1. www.youtube.com
2. <https://netbeans.org/community/releases/8/1/>
3. <https://dev.mysql.com/downloads/mysql/5.1.33.html>
4. <http://www.slideshare.net/Gowsalyasri/voice-based-srs>

Annexure A

3

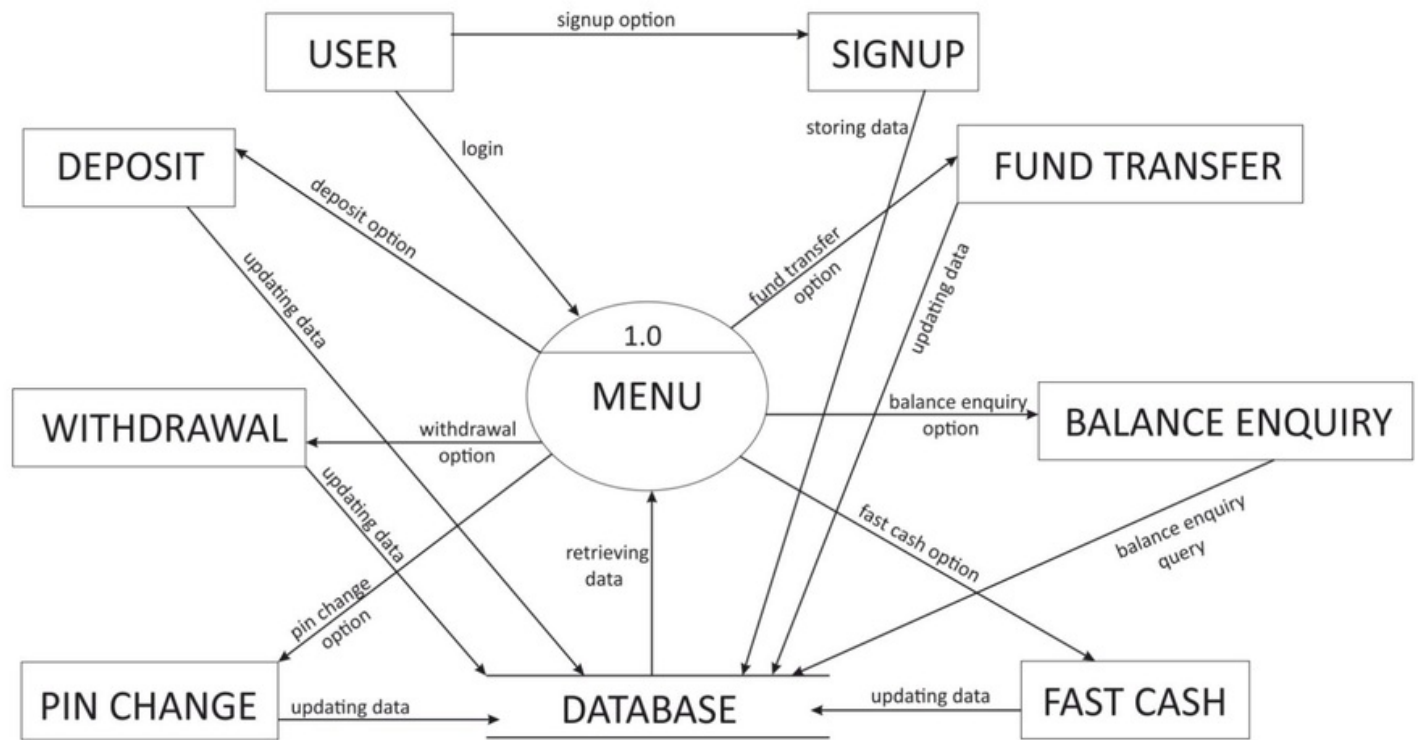
Data Flow Diagram (DFD)

Level-0 Data Flow Diagram (Context Diagram):



The Level-0 DFD

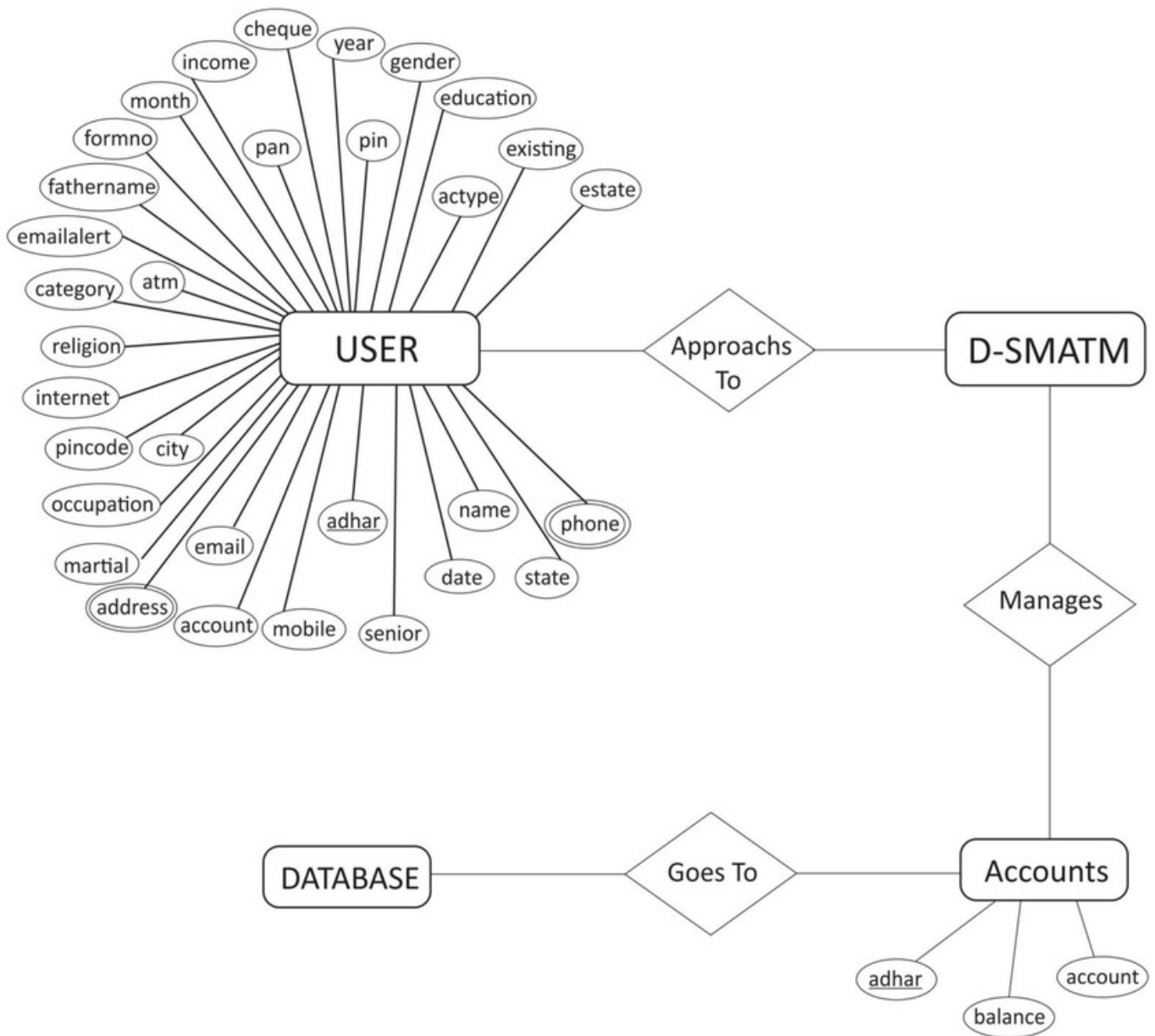
The Level-1 DFD associated with the implementation is as follows:-



Level-1 DFD

Annexure B

Entity-Relationship Diagram (ERD)



Annexure C

Data Dictionary (DD)

Signup Table

Fields	Data type	Description
name	Text	Username
father	Text	User fathername
date	Text	DOB-date
month	Text	DOB-month
year	Text	DOB-year
gender	Text	Gender
email	Text	Email
marital	Text	Marital status
address	Text	Address
city	Text	City
pincode	Text	Pincode
state	Text	State
religion	Text	Religion
category	Text	Category
education	Text	Education
occupation	Text	Occupation
income	Text	Income
pan	Text	PAN number
adhar	Text	Aadhar number

senior	Text	Senior Citizen
existing	Text	Existing account
actype	Text	Account type
account	Text	Account number
pin	Text	Pin
atm	Text	Atm Service
mobile	Text	Mobile Service
cheque	Text	Cheque Service
estate	Text	E-statement Service
emailalert	Text	Email alert Service
internet	Text	Internet Service
phone	Text	Phone number
formno	Text	Form number

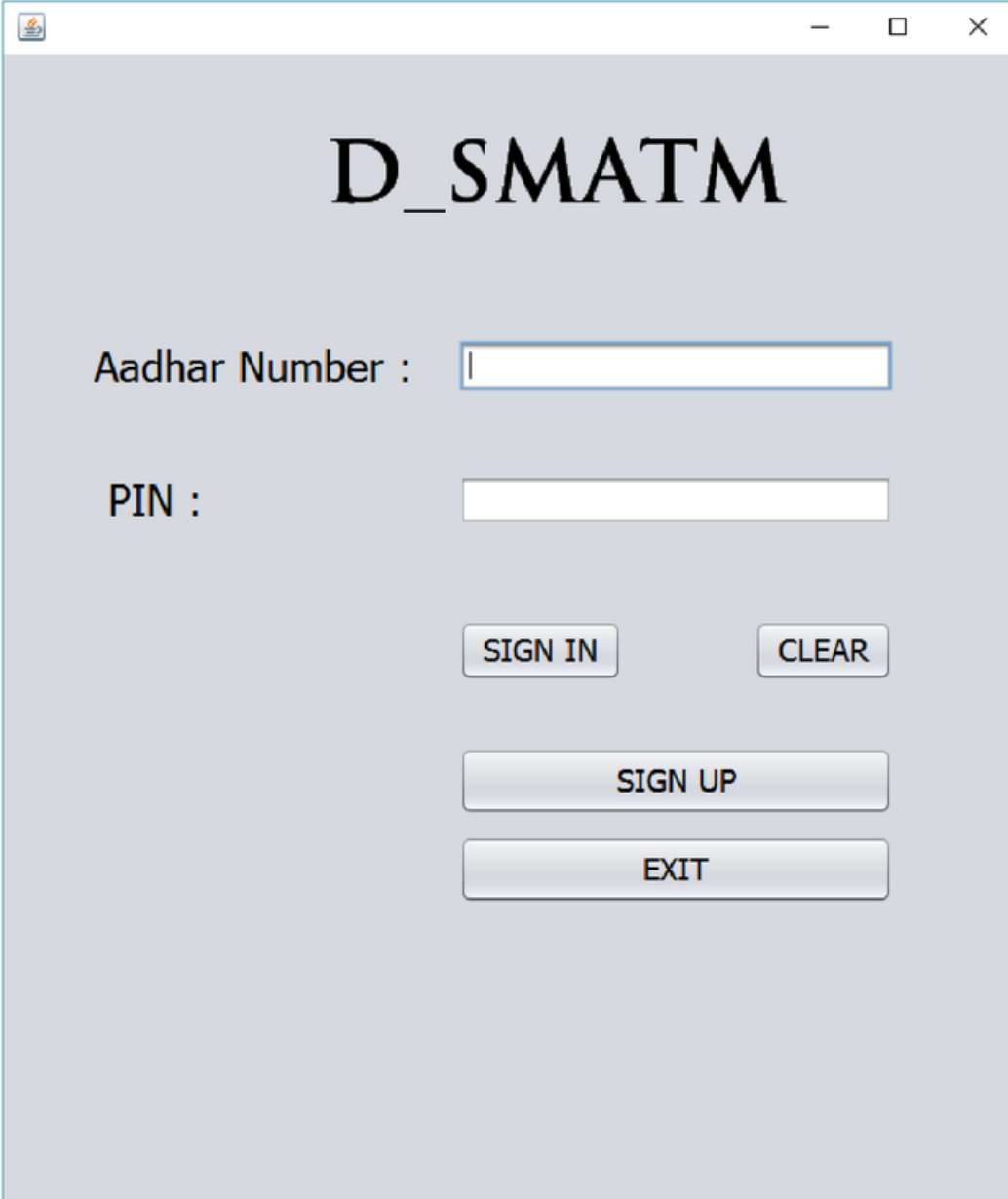
Balance Table

Fields	Data type	Description
adhar	Text	Aadhar number
balance	Number	Account balance
account	Text	Account number

Annexure D

Screen Shots


Home Page:



The screenshot shows a web application window titled "D_SMATM". The window has a light gray background and a white title bar with standard minimize, maximize, and close buttons. The main content area is centered and contains the following elements:

- The title "D_SMATM" in a large, black, serif font.
- A label "Aadhar Number :" followed by a white text input field with a blue border.
- A label "PIN :" followed by a white text input field with a blue border.
- Two buttons: "SIGN IN" and "CLEAR", both with a light gray gradient and a thin blue border.
- A button "SIGN UP" with a light gray gradient and a thin blue border.
- A button "EXIT" with a light gray gradient and a thin blue border.

Signup Page 1:

✕

Application Form Number - 62135

Page 1 : Personal Details

Name :

*

Father's Name :

Date of Birth :

Date

Month

Year

Gender :

☐ Male ☐ Female ☐ Others

Email Address :

Marital Status :

☐ Married ☐ Unmarried

Address :

City :


Pin Code :

State :

Mobile No.:

Next

Signup Page 2:

 ✕

Page 2 :Additional Details

Religion :

Select ▼

*

Category :

Select ▼

Educational Qualification :

Select ▼

Occupation :

Select ▼

Income :

Select ▼

PAN Number :

Aadhaar Number :

Senior Citizen :

☐ Yes

☐ No

Existing Account :


☐ Yes

☐ No

Previous

Next

Signup Page 3:

 ×

Page 3 : Account Details

Account Type :

<input type="radio"/> Saving Account	<input type="radio"/> Fixed Deposit Account
<input type="radio"/> Current Account	<input type="radio"/> Recurring Deposit Account

ACCOUNT NUMBER : **5541890142573011**

(your 16-digit card number) (It will appear on ATM Card/Cheque Book & Statements)

PIN : **2190**

(4-digit password)

Services Required :

<input type="checkbox"/> ATM Card	<input type="checkbox"/> Mobile Banking
<input type="checkbox"/> Cheque Book	<input type="checkbox"/> E-Statement
<input type="checkbox"/> Email Alerts	<input type="checkbox"/> Internet Banking

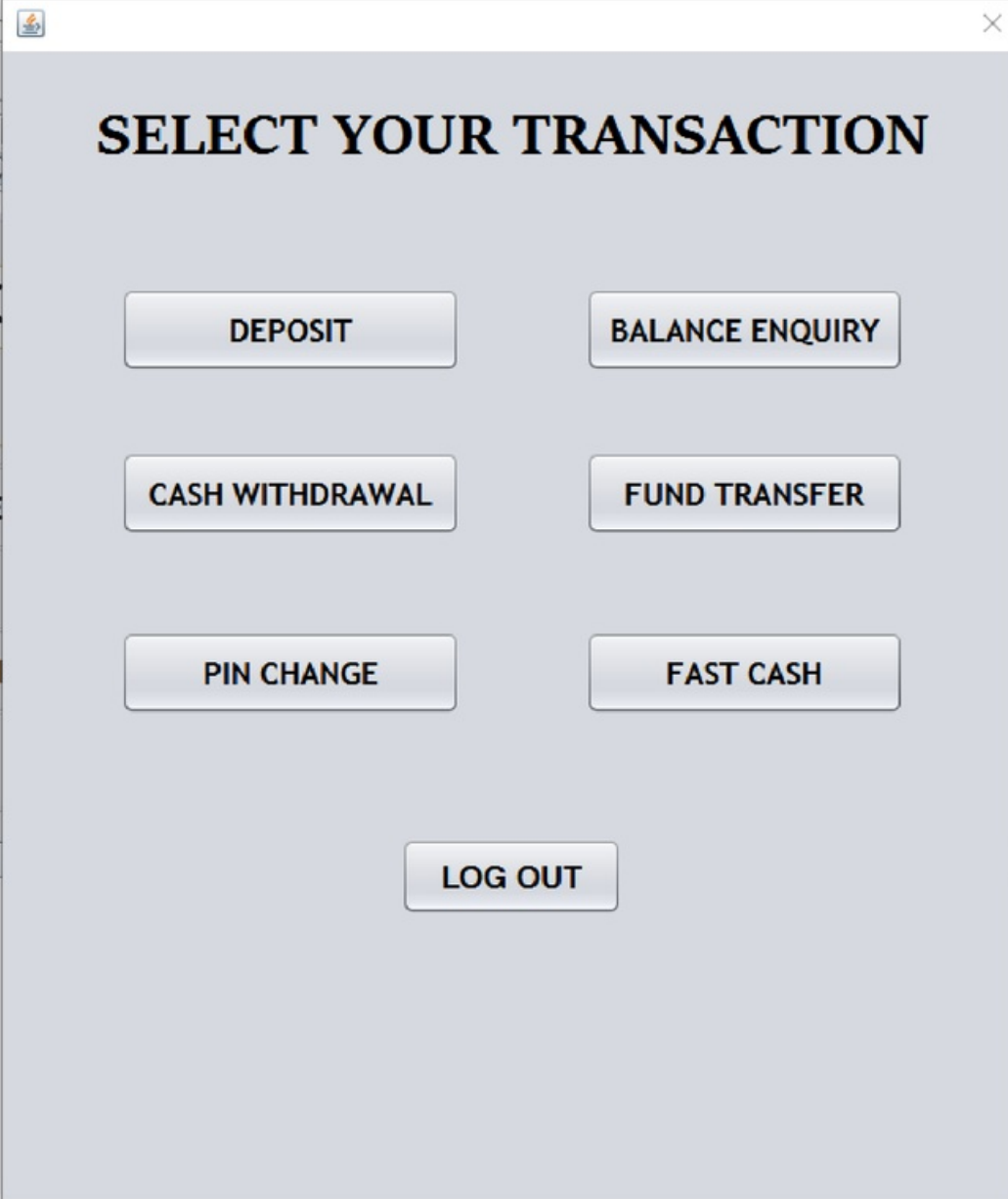
☐ I hereby declare that the above entered details are correct to the best of my knowledge.

Previous

SUBMIT

CANCEL


Menu Page:



A screenshot of a banking application's menu page. The page has a light gray background and a white title bar at the top. The title bar contains a small icon on the left and a close button (X) on the right. The main heading is "SELECT YOUR TRANSACTION" in bold, black, serif font. Below the heading, there are six buttons arranged in a 3x2 grid. The buttons are labeled: "DEPOSIT", "BALANCE ENQUIRY", "CASH WITHDRAWAL", "FUND TRANSFER", "PIN CHANGE", and "FAST CASH". At the bottom center, there is a single button labeled "LOG OUT". All buttons are light gray with rounded corners and a subtle gradient.

SELECT YOUR TRANSACTION	
DEPOSIT	BALANCE ENQUIRY
CASH WITHDRAWAL	FUND TRANSFER
PIN CHANGE	FAST CASH
LOG OUT	

Deposit Page:



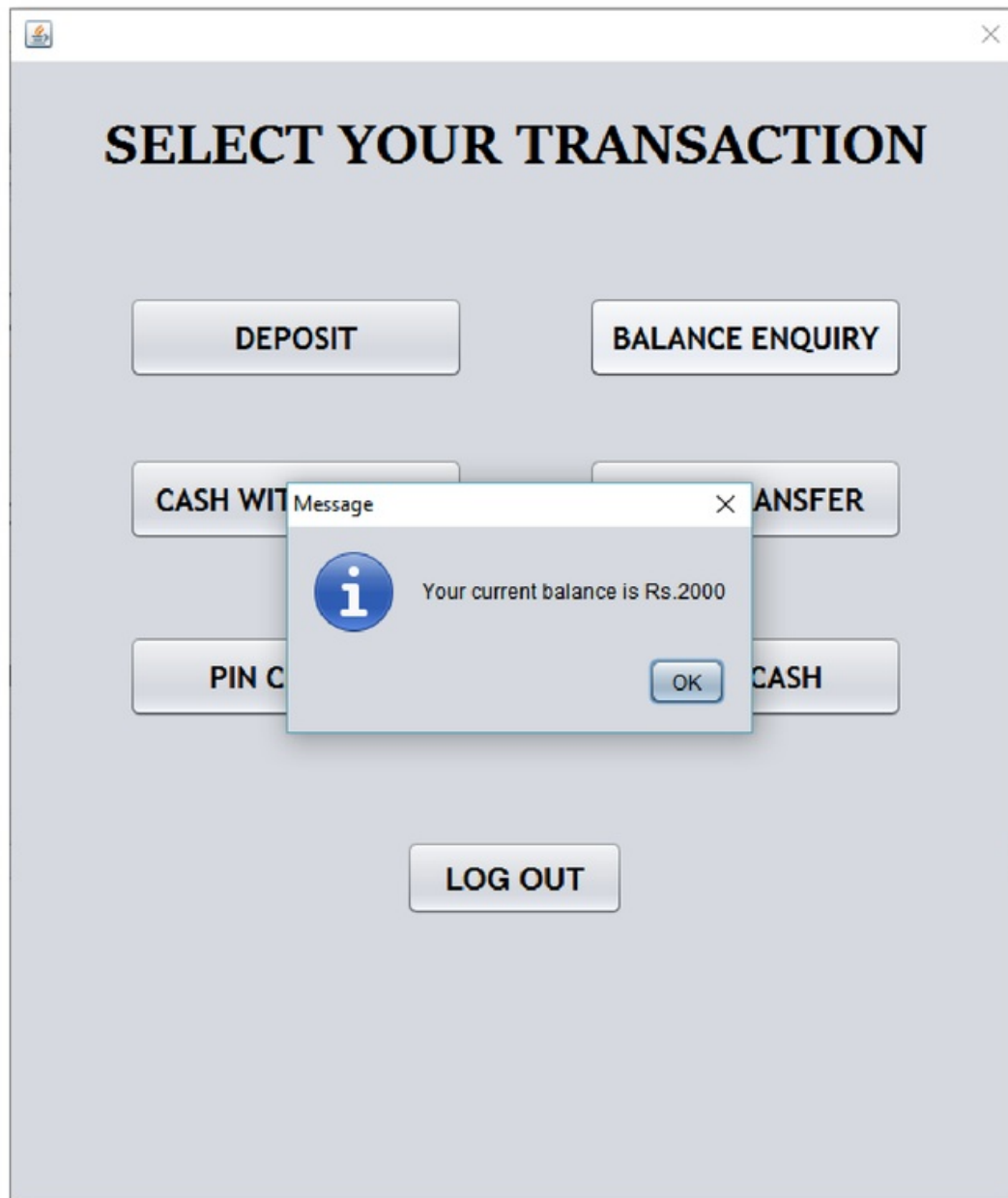
**ENTER AMOUNT YOU WANT
TO DEPOSIT**

Enter amount in multiple of 50

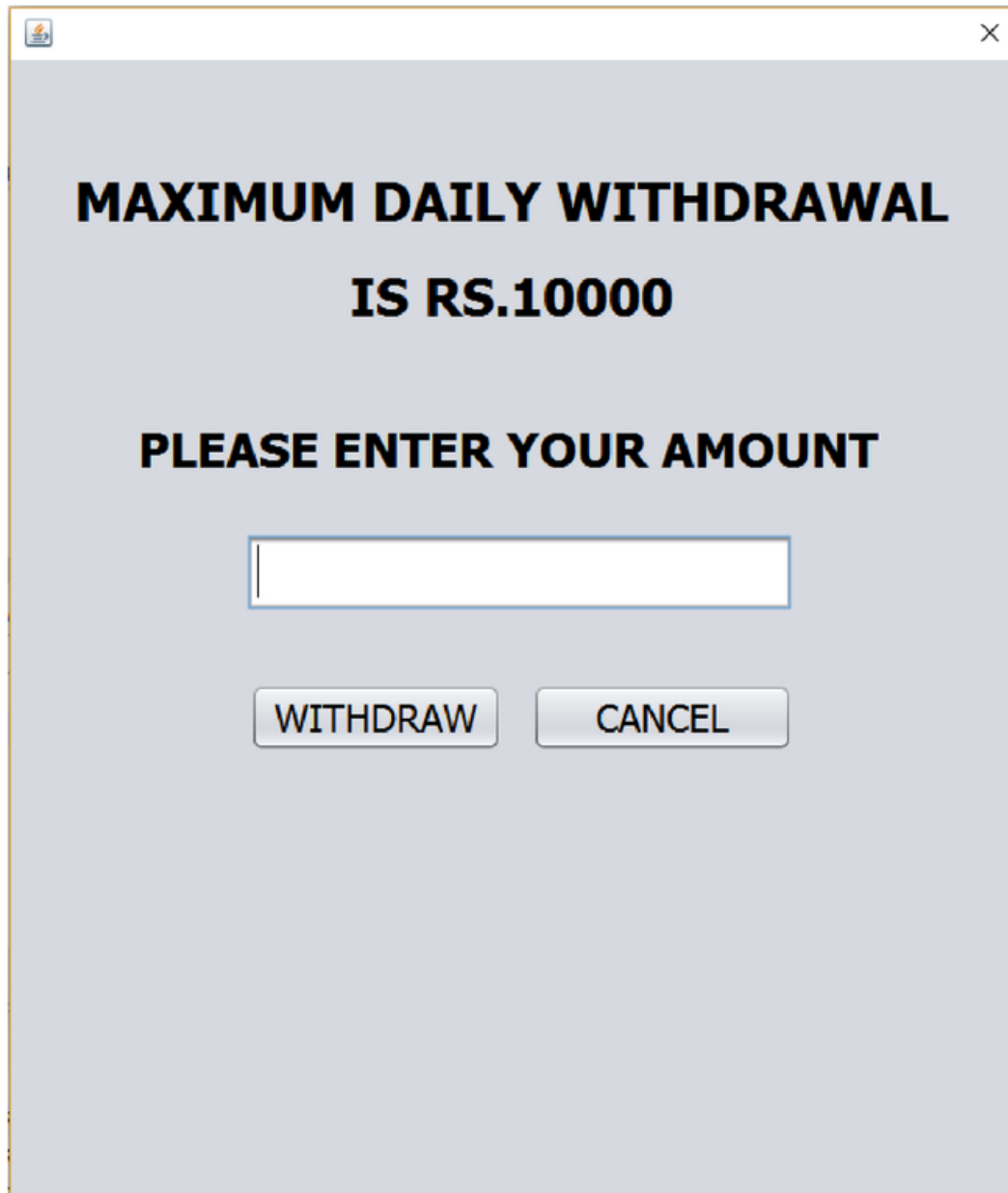
DEPOSIT

BACK

Balance Enquiry Page:



Cash Withdrawal Page:



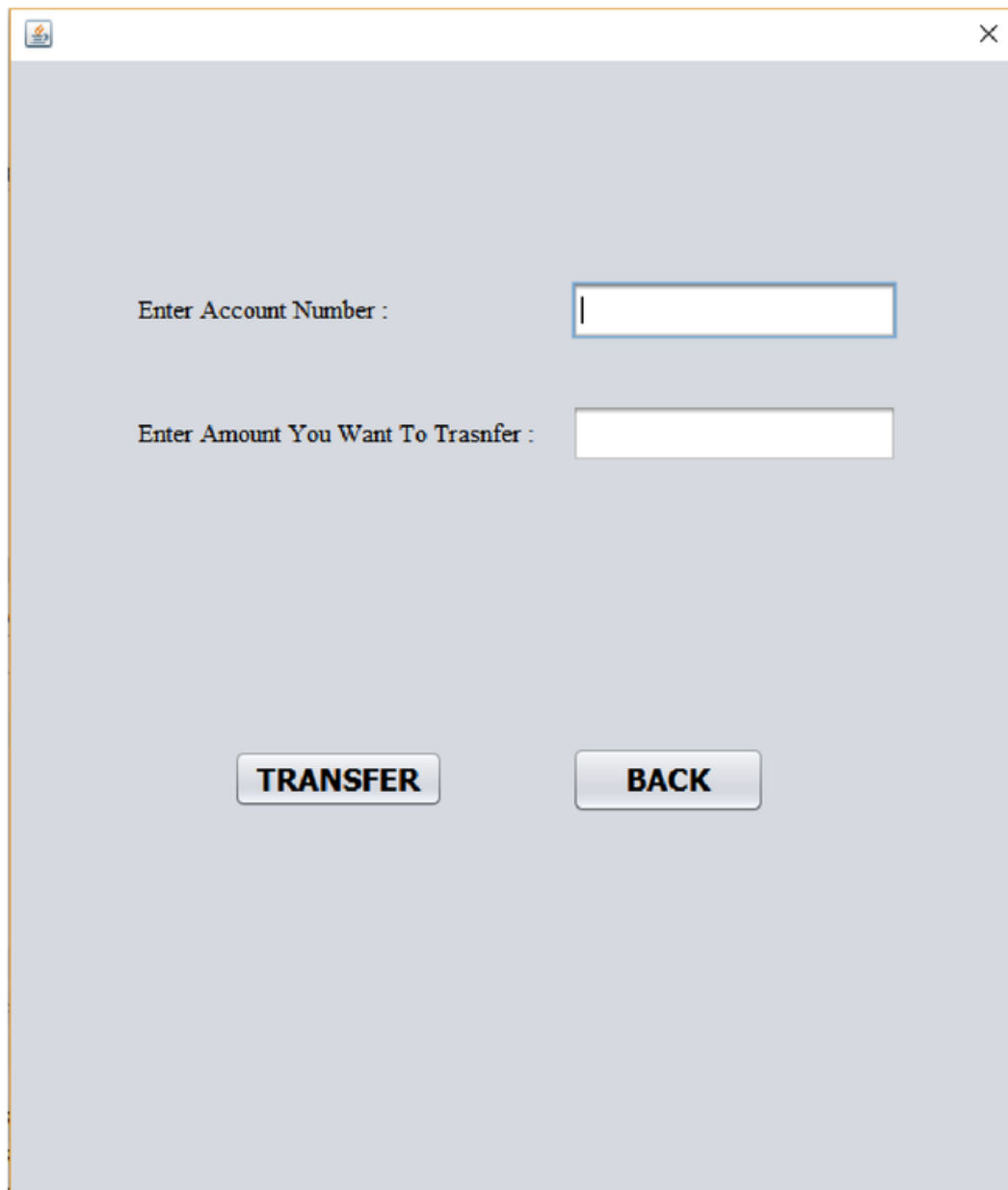
A modal window with a light gray background and a thin orange border. The window has a standard title bar with a small icon on the left and a close button (X) on the right. The text inside is bold and black. It states the maximum daily withdrawal limit and prompts the user to enter an amount. Below the text is a text input field, and at the bottom are two buttons: 'WITHDRAW' and 'CANCEL'.

**MAXIMUM DAILY WITHDRAWAL
IS RS.10000**

PLEASE ENTER YOUR AMOUNT

WITHDRAW **CANCEL**

Fund Transfer Page:





A dialog box titled "Fund Transfer Page:" with a close button (X) in the top right corner. The dialog has a light gray background. It contains two input fields: "Enter Account Number :" and "Enter Amount You Want To Transfer :". Below the input fields are two buttons: "TRANSFER" and "BACK".

Enter Account Number :

Enter Amount You Want To Transfer :

TRANSFER **BACK**

Pin Change Page:




CHANGE YOUR PIN

CURRENT PIN : Inccorrent password

NEW PIN :

Re-Enter NEW PIN :

Fast Cash Page:

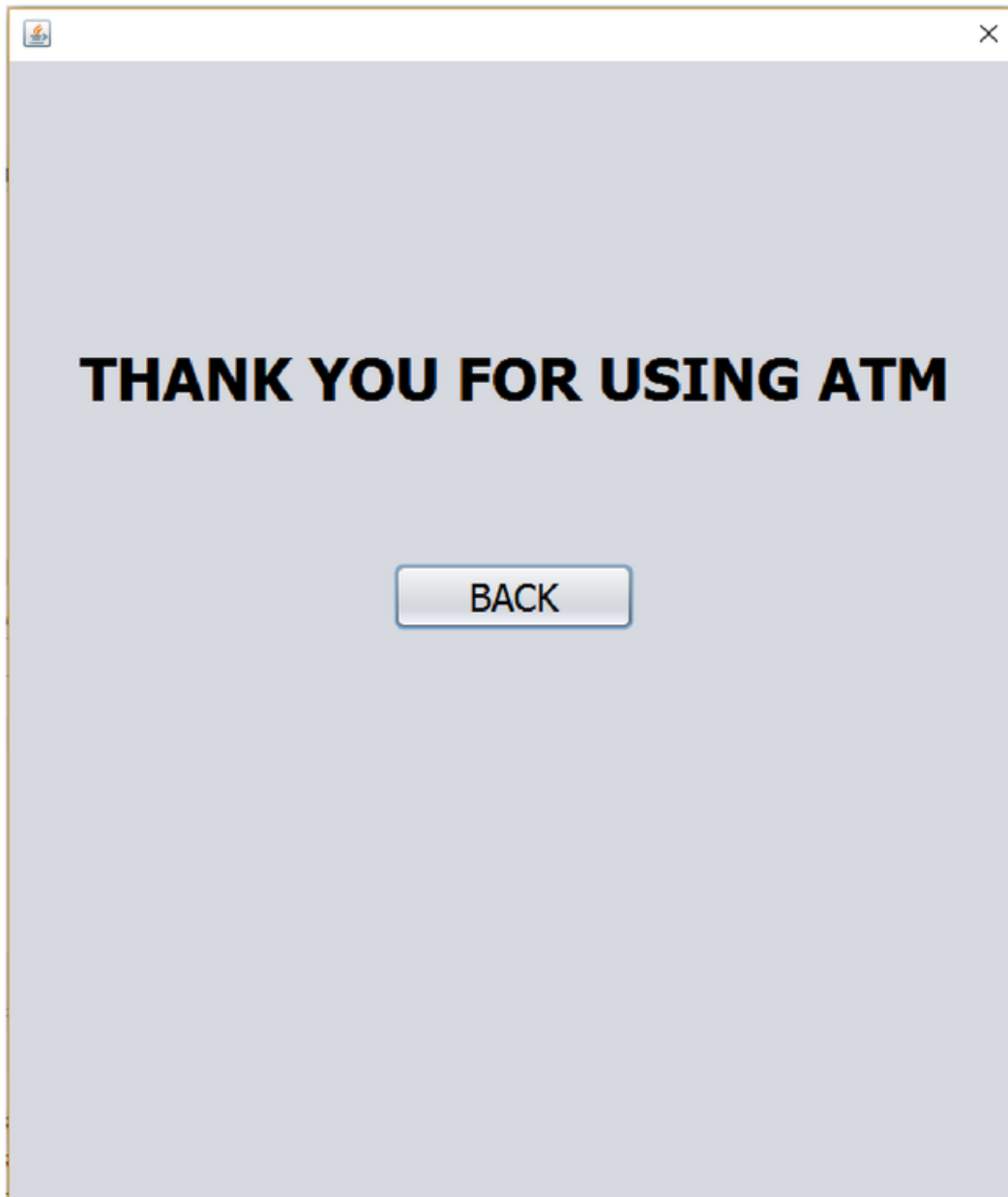
✕

SELECT WITHDRAWAL AMOUNT

100	500
1000	2000
5000	10000

BACK

Thank YouPage:



ATM

ORIGINALITY REPORT

% **13**
SIMILARITY INDEX

% **6**
INTERNET SOURCES

% **0**
PUBLICATIONS

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STUDENT PAPERS

PRIMARY SOURCES

1 Submitted to Nelson Marlborough Institute of Technology
Student Paper % **3**

2 en.wikipedia.org
Internet Source % **3**

3 Submitted to Teerthanker Mahaveer University
Student Paper % **2**

4 Submitted to ESLSCA Business School (Cairo)
Student Paper % **1**

5 Submitted to University Tun Hussein Onn Malaysia
Student Paper % **1**

6 Submitted to London School of Commerce
Student Paper % **1**

7 www.unixntnews.com
Internet Source % **1**

8 musaamin.web.id
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