TE MINI-PROJECT REPORT ON

Bank Management System

by

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Project Link: https://github.com/saloni3121/Python-Mini-Project.git

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ABSTRACT

This project aims at creation of a secure Internet banking system. This will be accessible to all customers who have a valid User Id and Password. This is an approach to provide an opportunity to the customers to have some important transactions to be done from where they are at present without moving to bank. In this project we are going to deal the existing facts in the bank i.e.; the transactions which takes place between customer and bank. We provide a real time environment for the existing system in the bank. We deal in the method transaction in the bank can be made faster and easier that is our project is an internet based computerized approach towards banking.

CONTENTS

CHAPTER-1

INTRODUCTION

The main aim of the project is to cover the basic functionality of a bank management system. It is used for solving financial application of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks.

The main objective of the project is to develop online Banking system for banks. In present system all banking work is done manually. User have to visit bank to Withdrawal or Deposit amount. In present bank system it is also difficult to find account information of account holder. In this bank management system we will automate all the banking process. In our bank management system user can check his balance online and he can also transfer money to other account online. In this Software you can keep record for daily Banking transactions. The main purpose of developing bank management system is to design an application, which could store bank data and provide an interface for retrieving customer related details with 100% accuracy.

The system will check the user's existence in the database and provide the set of services with respect to the role of the user.

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AIMS AND OBJECTIVES

AIMS:

To make a software to help the customers to access the services of the bank online using PYTHON.

OBJECTIVES:

- The main object of this system is to provide a secure system. Our system is password protected and it only allows authorized user to access various functions available in the system.

- It will Reduced manual work as most of the work done by computer. As all the manual work will be done automatically so it will increase work speed and reduce time consumption to complete any bank related work.

- It will also increase the work efficiency as few employees can handle more customers. This will reduce the manual workload and give information instantly.

- Through this bank management system user can manage all bank account activity like deposit money, withdraw money, check balance and change pin number.

- The project makes a sincere effort to provide all the below-mentioned features to meet the requirements of the bank.

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<u>LITERATURE SURVEY</u>

Sr No.	Title of the Paper	Author of the paper	Published year	Inference
1	Banking Comprehensive Risk Management System based on Big data Architecture of hybrid processing Engines and Databases	Shenglan Ma, Hao Wang , Botong Xu, Hong Xiao, Fangkai Xie , Hong-Ning Dai , Ran Tao , Ruihua Yi , Tongsen Wang	2020	This paper tells us that how Banks are shifting from simple credit risk Models to comprehensive risk models and provides innovative and effective solutions. It proposes Big Data Architecture of Hybrid processing engines and databases. The ecosystem used here is Hadoop with ETL and Spark processing engines and uses massive Databases, HDFS and transactional databases.
2	The implementation of E-money in mobile phone: A case study at PT Bank KEB Hana	Didik Haryadi, Harisno, Victory Haris Kusumawardhana, Harco Leslie Hendric Spits Warnars	2019	This paper tells us that due to innovations in cashless payments, it has been seen that the growth of E-money is growing faster than credit or debit cards for online payment transactions directly from the banks. This paper analyzes the design of the E-money and provides development ideas.
3	Design and Implementation of various Payment System for Product Transaction in Mobile Application	Dewi Sandy Islamiati, Dias Agata, Adnan Rahmat Anom Besari	2019	In this paper, a payment system is made on mobile applications and web services using REST API to connect client – server. This system helps in researching the authentication process of the system
4	Managing the Implementation of Banking Systems for Repeatable Success	Andre Malan , L Pretorius , JHC Pretorius	2018	The paper tells us how to manage the implementations for repeated success of banking system. Which models and technical requirements are important and should be focused are written in the paper.

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<u>PROPOSED SYSTEM</u>

- It will have a registration page where the individual will have to register him/herself to access all the banking services.
- It will have a login page where only registered and authorized person can have access to the bank.
- The account number is automatically generated for the user by using which he/she can login in the system.
- It has a home page where all the services provided by this software will be visible.
- The withdraw module in this software will help the individual to withdraw money from the bank using his/her credentials.
- The deposit module will help the individual to deposit money in his/her A/c.
- All the new user account balance is credited with Rs.1000.
- The balance module helps the individual to check is/her balance after withdrawal and deposit transactions.
- The pin changing module helps the individual to update or reset his/her old pin number with the new one.
- It has a delete account page where the user can sent the request to the admin.
- It has a admin page where the admin can accept or decline the user request for deleting the user account.

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SOFTWARE USED

1) **Python IDLE 3.9**

   IDLE (Integrated Development and Learning Environment) is an integrated development environment (IDE) for Python. The Python installer for Windows contains the IDLE module by default. IDLE can be used to execute a single statement just like Python Shell and also to create, modify, and execute Python scripts.

Programming language used

Frontend

1) **Python Tkinter**

   Tkinter is Python's de-facto standard GUI (Graphical User Interface) package. It is a thin object-oriented layer on top of Tcl/Tk. Tkinter is not the only GUI Programming toolkit for Python.

   It is however the most commonly used one. Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Backend

1) **SQlite**

   SQLite is an embedded SQL database engine.Unlike most other SQL databases, SQLite does not have a separate server process; it reads and writes directly to ordinary disk files. A complete SQL database with multiple tables, indices, triggers, and views, is contained in a single disk file.

   SQLite is a software library that provides a relational database management system. The lite in SQLite means lightweight in terms of setup, database administration, and required resources. SQLite has the following noticeable features: self-contained, serverless, zero-configuration, transactional.

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<u>**IMPLEMENTATION**</u>

- The design and implementation of the bank management system is to replace the tradition way of using banking services.
- Registered users can directly access the services provided by the system.
- This system is especially designed for the customers to make use of the services efficiently and with ease.
- This system aims to provide the best services.

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Flowchart:
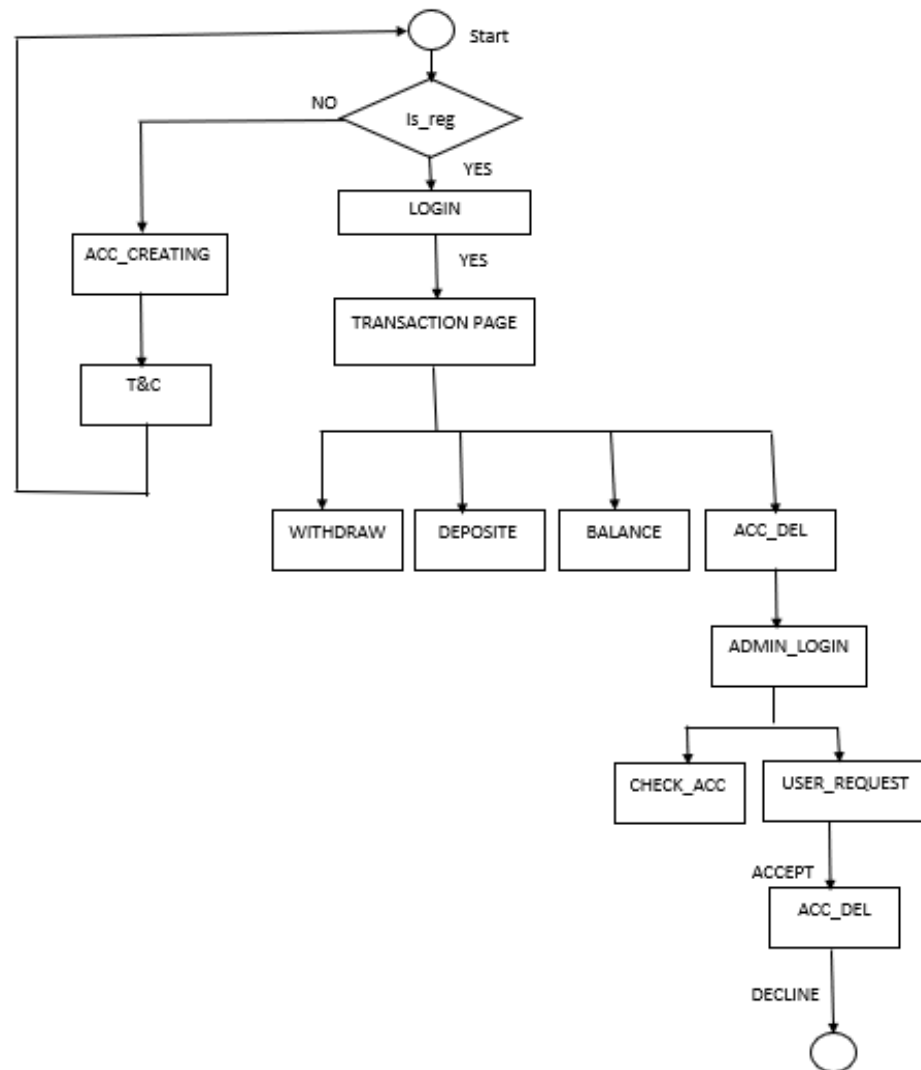
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ER-Diagram:

ER DAIGRAM FOR BANK MANAGEMENT SYSTEM:
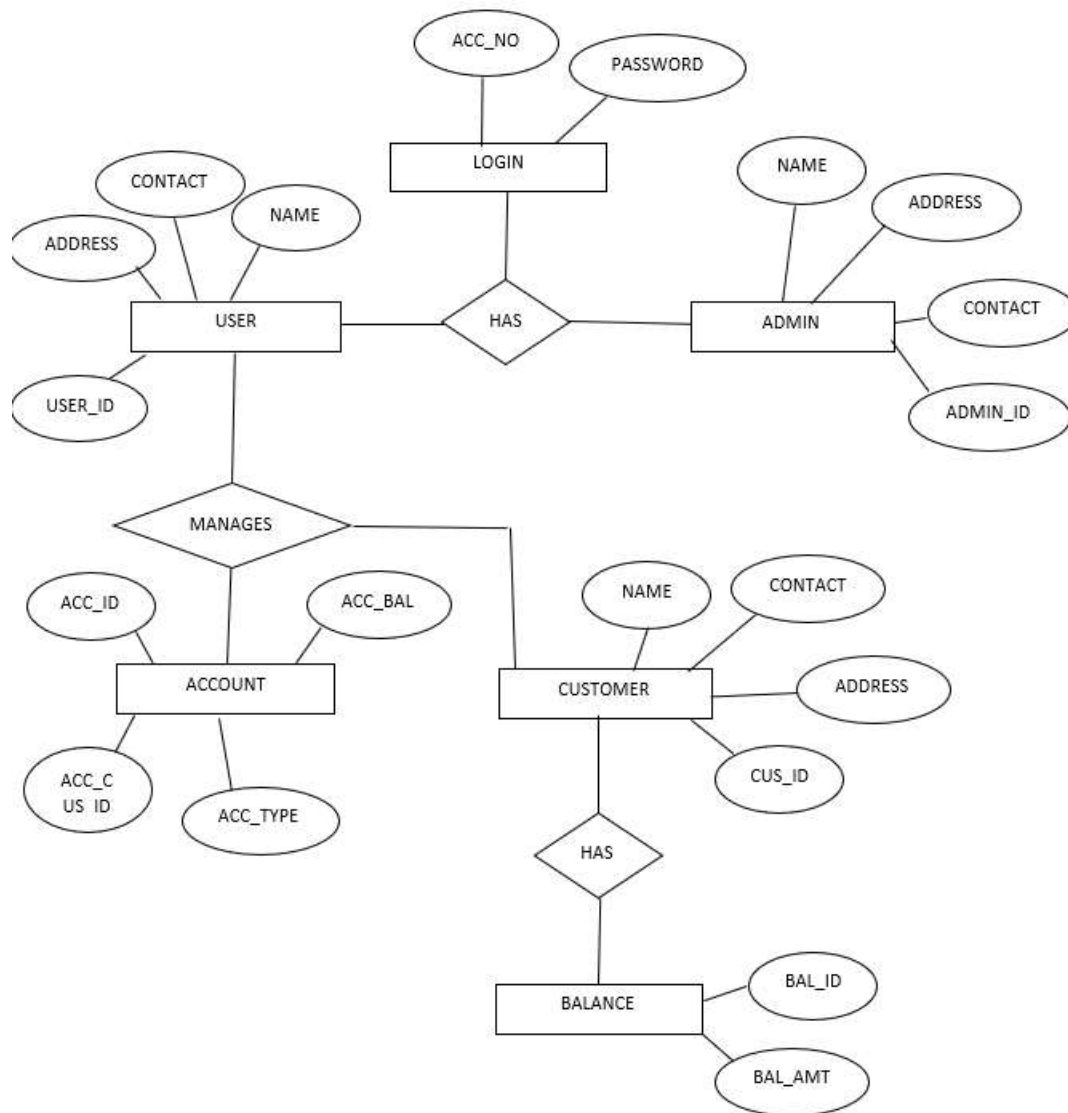
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Output:

Home page
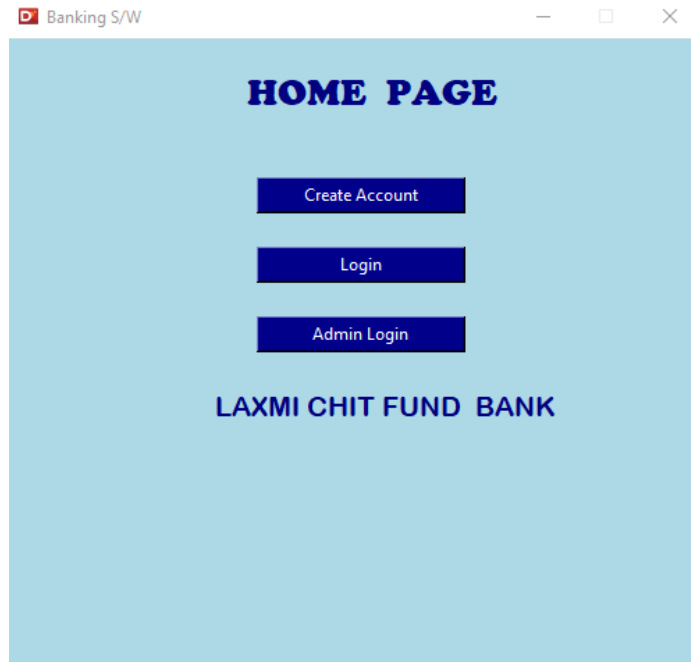
Terms and Conditions Page
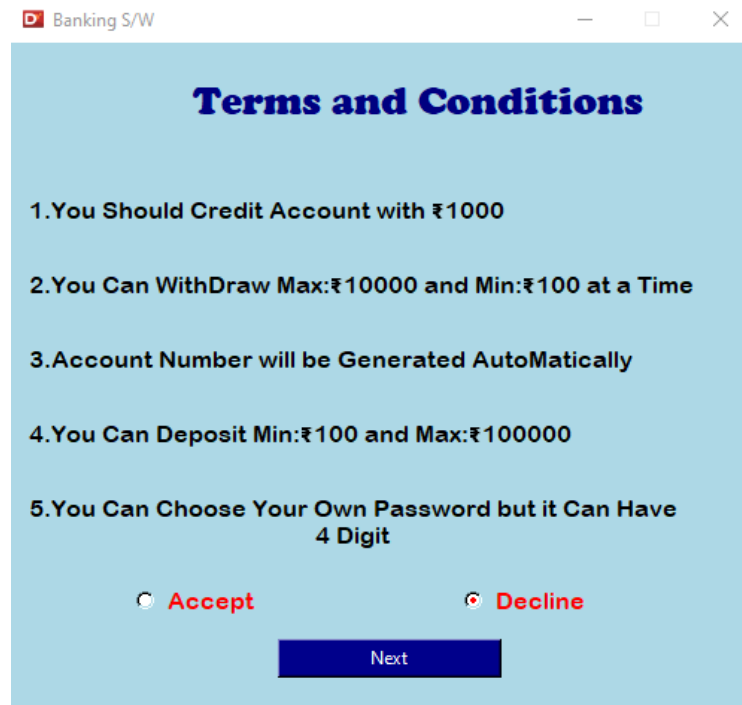
Account Generating Page

ACCOUNT CREATING PAGE

Hi Customer Follow the Steps to Create Account

Name

Sameer

Phone

9875684268

Password

####

Account Number Generated for You 9402

HOME

LAXMI CHIT FUND BANK

Login Page

LOGIN PAGE

Pease Enter Account Number

9402

Please Enter Password

####

SUBMIT

HOME

REQUEST TO DELETE ACC.

FORGET PASSWORD

LAXMI CHIT FUND BANK
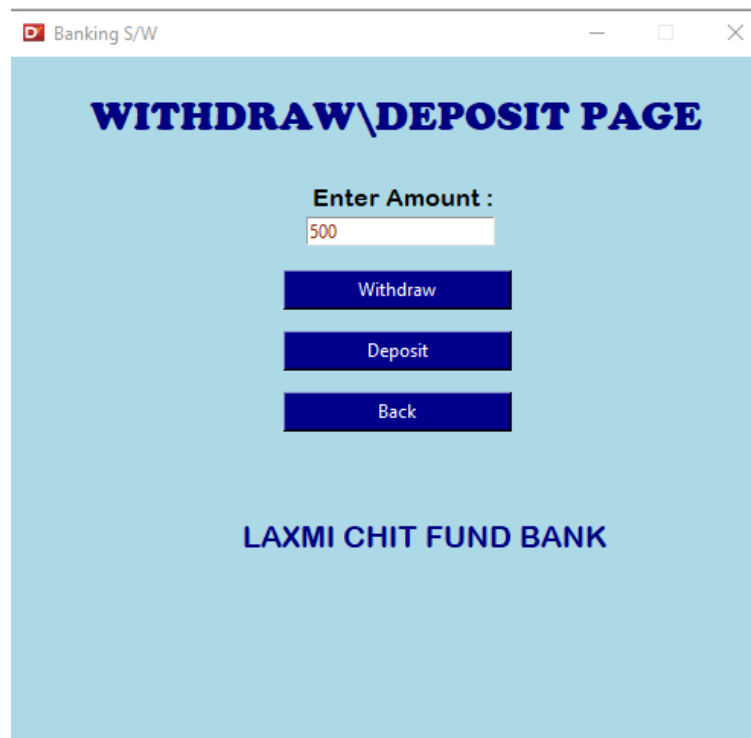
Transaction Page
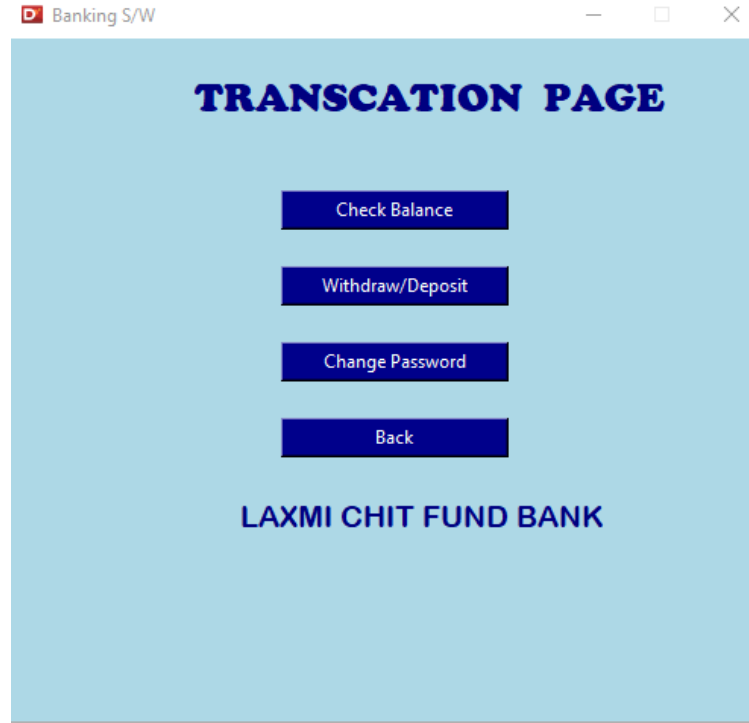
Balance
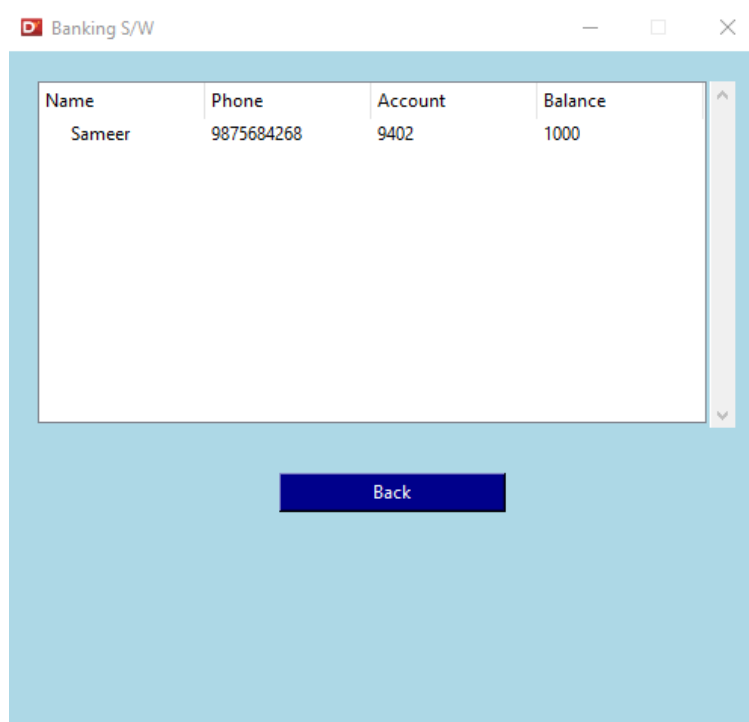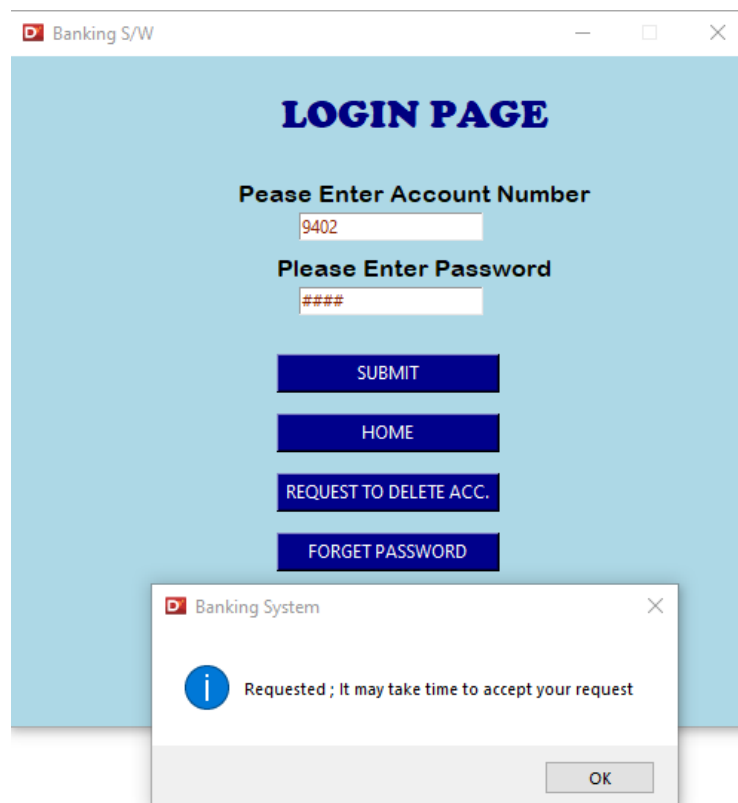
Withdraw\Deposit Page
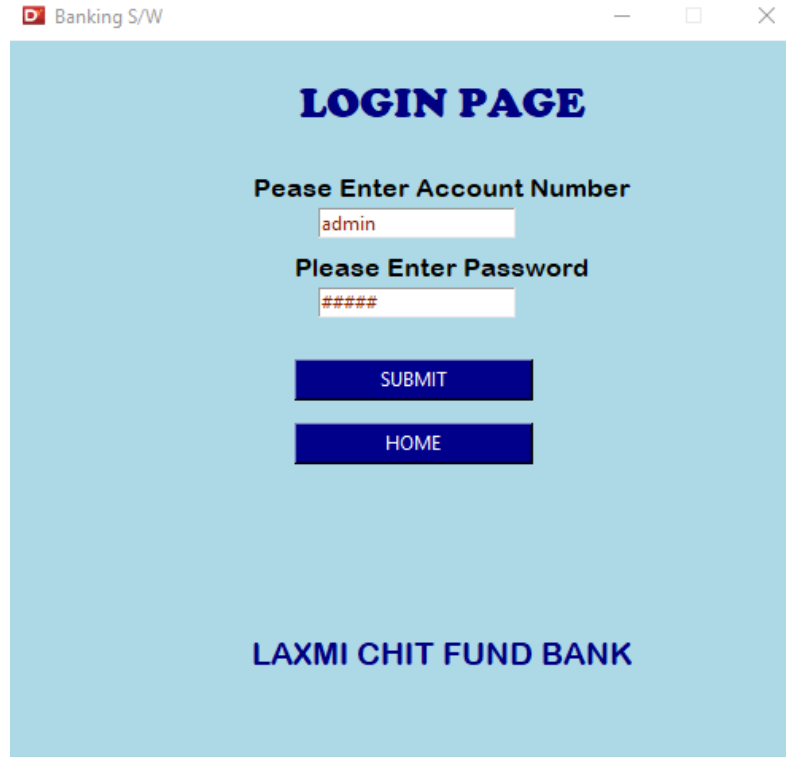
User Account Deleting Request

Admin Login

LOGIN PAGE

Pease Enter Account Number

admin

Please Enter Password

#####
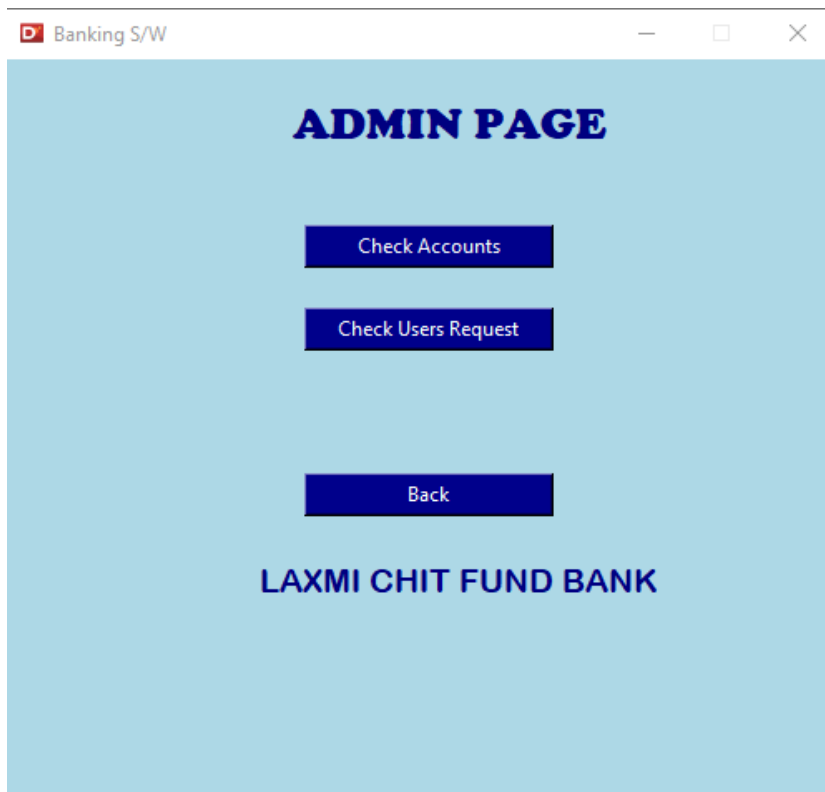
SUBMIT

HOME

LAXMI CHIT FUND BANK

Admin Home page

ADMIN PAGE

Check Accounts

Check Users Request

Back

LAXMI CHIT FUND BANK

(Admin)Check User Accounts

Name	Phone	Account	Balance
Himanshi	7896541236	5137	5000
om	7854698542	7103	1000
Sameer	9875684268	9402	1000

Back

LAXMI CHIT FUND BANK

(Admin) User Request

| Name	Phone	Account	Balance
Himanshi	7896541236	5137	5000

Accept   Decline

Back

LAXMI CHIT FUND BANK

Password Changing Page

Change password Page

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CONCLUSION:

This reports concludes that banking sector has revolutionized through- out the nation. And almost all people are benefited by these software solutions. Adaptation to the customer needs is much necessary in the growing economy. Banks have understood the customer needs much accurately. This is a positive sign of growth. This paper once again reinforces the concepts of software solution banking. Much more customer friendly approach will develop in the coming years.

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Acknowledgement:

I would like to express my special thanks of gratitude to my mentor Prof. Ashok Patade. From the day of conception of this project his active involvement and motivating guidance on day-to-day basis has made it possible for us to complete this challenging work in time. It had been a great journey in analysing, understanding and realizing the implementation of a real time project in PYTHON and SQLite. It helped me grow a lot not only academically but also in a broader and knowledgeable aspect. I would like to express my very great appreciation to my group members for their valuable and constructive execution and suggestions during the planning and development of this research work and in making of the project. The team building, managing and co-operative skills were also been imparted in us. Hence making us more professional and patient in work.

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