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Title: Bank Management System

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Abstract

My Mini Project titled "Bank Management System" is a software for monitoring and controlling the Transactions in a Bank. This Project is designed coded in Sublime Text Editor and database Management is handled by PHP MyAdmin, a free software tool written in PHP intended to handle the administration of MySQL and MariaDB. This Software mainly focuses on basic operations like to provide User and Admin Login, creating and closing accounts and withdraw and deposit money. My Project is easy to use for both beginners ad advanced users. The user interface which is very interactive is designed by using the concept of Tkinter available in python.

Problem Statement and Features:

Develop a Python Mini Project for Bank Management System which offers the following features:

- Admin Login
- Customer Login
- Create Account.
- Delete Account.
- All account holder list
- Deposit and Withdraw Amount and check Balance .

SOFTWARE REQUIREMENTS

1. Python 3.9.3



Fig. 1 Python Logo

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

MySQL is easy to use. It is secure and consist of a solid data security layer ta protects sensitive data from intruders. Client Server Architecture, free to download, it is scalable ,speed and high flexibility.

XAMPP has he ability to serve web pages on he World Wide Wed. A speial tool is provided to password protect the most important parts the package. XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others

Sublime Text Editor Sublime Text is a shareware cross-platform source code editor with a Python application programming interface (API). It natively supports many programming languages and markup languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses

HARDWARE REQUIREMENTS

- Windows 7 or higher (32bit or 64bit)
- \bullet Intel i3 processor (1.30 GHz)
- Minimum 4GB RAM
- \bullet 250GB Free Disk Space

 ${\bf Module\ Implementation}$

| Sr no. | Module Name | Description | Implementation date |
|--------|---------------------|--|---------------------|
| | Defining the | Collecting all information | |
| 1 | Requirements | needed for implementation of a | 12-06-2021 |
| | | Bank Management System | |
| | Designing on | Basic Structure or an outline | |
| 2 | paper | of the whole project on | 15-06-2021 |
| | | paper. | |
| | Designing the | Design the Frames using Python Tkinter | |
| 3 | Frames practically. | on an Editor without | 17-06-2021 |
| | | implementation. | |
| | Login For | This Frame unables us to | |
| 4 | Admin or | choose our role whether you | 21-06-2021 |
| | Customer | are a customer | |
| | implementation | Bank Executive | |
| | Login Form | Login Form for admin enables | |
| 5 | for Admin | the user to login to the Project | 24-06-2021 |
| | implementation | as admin and enables | |
| | | the connection to Database | |
| | Login Form | Login Form for customer enables | |
| 6 | for Customer | the user to login to the Project | 29-06-2021 |
| | implementation | as customer and enables | |
| | | the connection to Database. | |
| | | The Admin select Menu Frame | |
| 7 | Admin Select | contains the all the options | 02-07-2021 |
| | implementation | used by the admin to access | |
| | | the further | |
| | | Frames or options. | |
| | | The customer select Menu Frame | |
| 8 | Customer Select | contains the all the options | 05-07-2021 |
| | implementation | used by the customer to access | |
| | | the further | |
| | | Frames or options. | |
| | | The Create Account form is used | |
| | Create Account | create a new account | |
| 9 | implementation | which can be done b the admin | 08-07-2021 |
| | | and store the information | |
| | | in the database. | |
| | Delete Account | The Delete Account form is used | |
| 10 | implementation | to close or delete a | 10-07-2021 |
| | | particular account | |
| | All Account Holders | Displays the records of people | |
| 11 | List | who have an account in the bank. | 18-07-2021 |
| | implementation | | |
| | Transaction | Transaction form contains | |
| 12 | implementation | deposit, withdraw and . | 21-07-2021 |
| | | check balance | |

Mini Project Source Code

Miniproject

```
| Americans | Amer
```

Admin Login

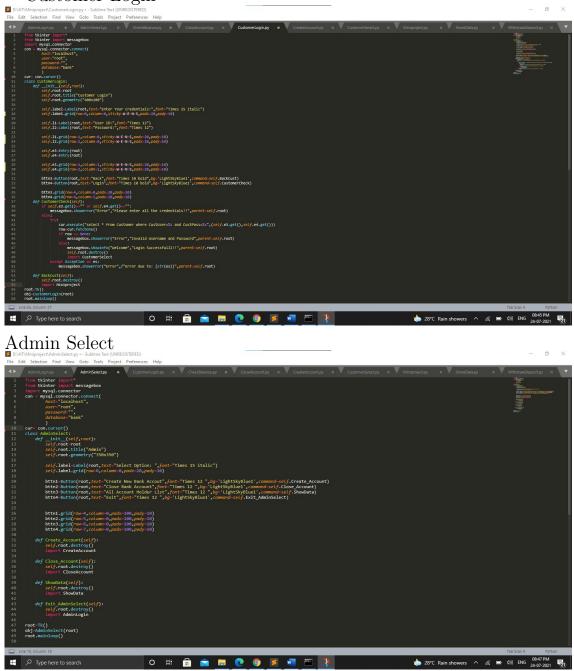
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**The Ear Section Fed Vew Cost Polyto Printer Interview (Section 1997)

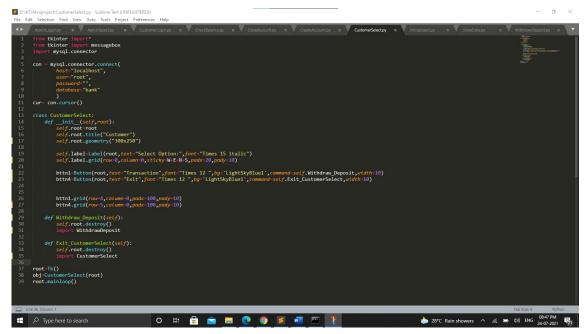
**The Ear Section Fed Vew Cost Fed Vew Cost Polyto Printer Interview (Section 1997)

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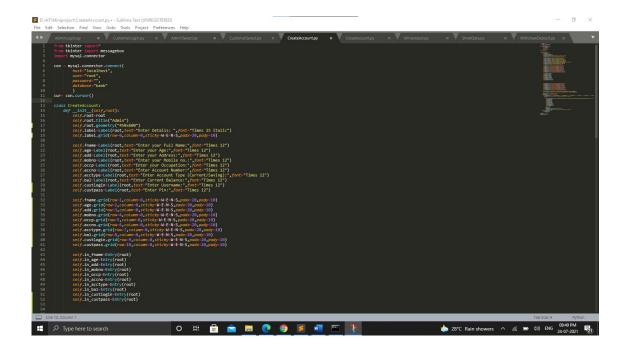
Customer Login

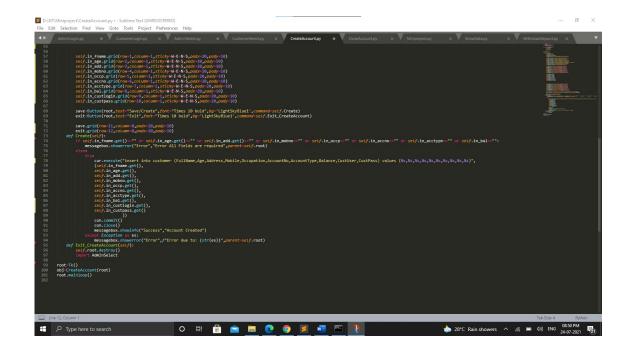


Customer Select

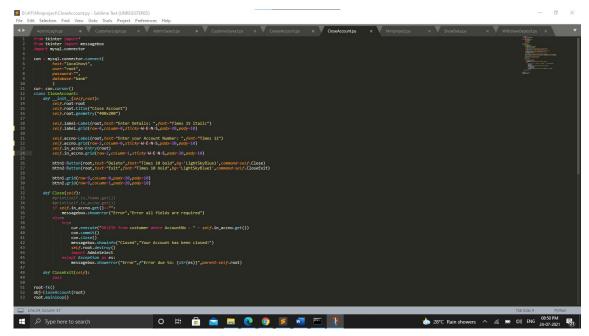


Create Account

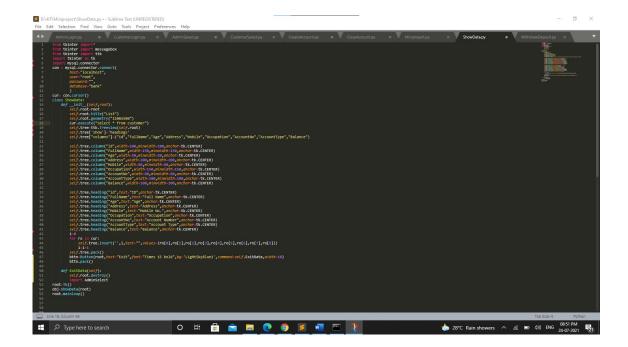




Close Account



Show Data



Transaction

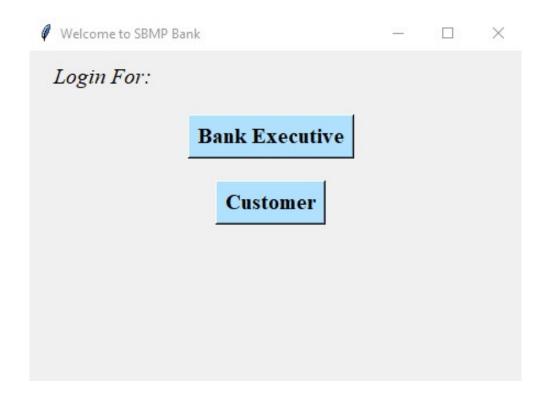
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The Edit before for Vivo data Scale Propert Primers (by)

** demonstrate of Vivo data Scale Propert Primers (by)

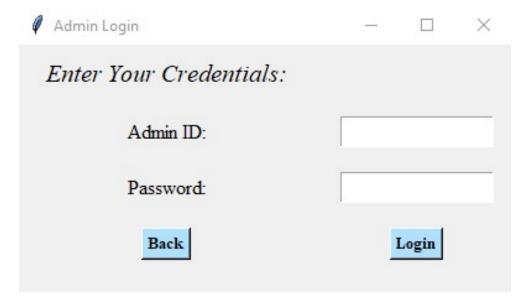
** demonstrate (by)
```

Mini Project Result

Select



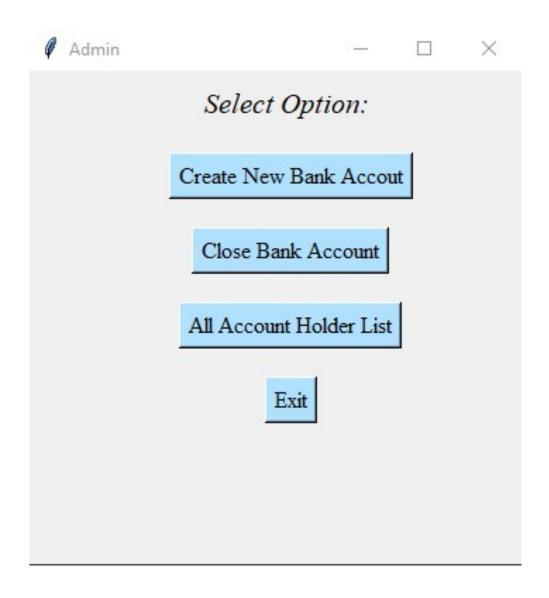
Admin Login



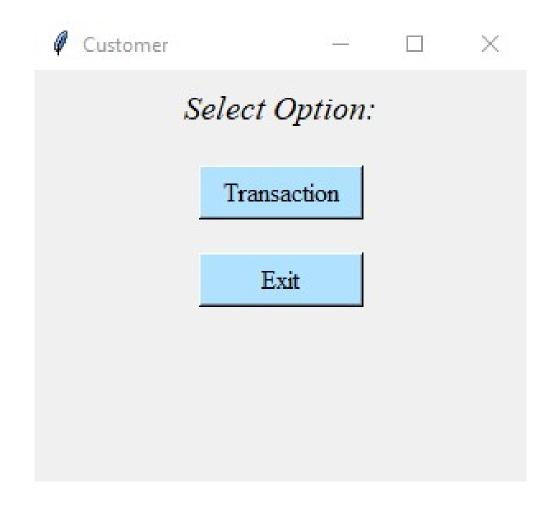
Customer Login

| Customer Login | | | × |
|-------------------------|---|-------|---|
| Enter Your Credentials: | | | |
| User ID: | | | |
| Password: | | | |
| Back | 1 | Login | |

Admin Select



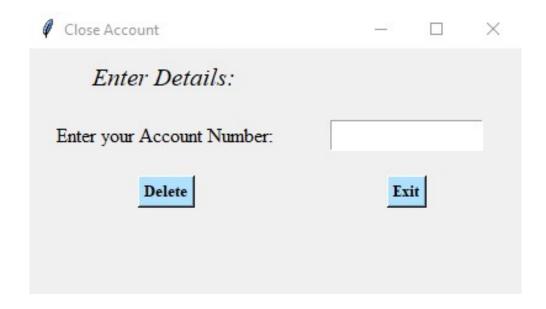
Customer Select



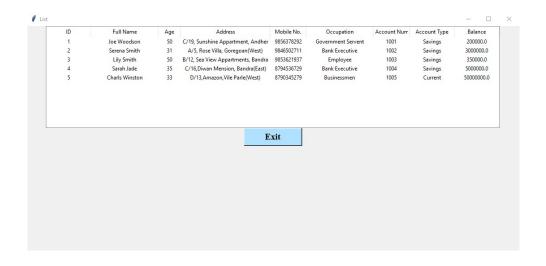
Create Account

| Admin | _ | \times |
|--------------------------------------|---|----------|
| Enter Details: | | |
| Enter your Full Name: | | |
| Enter your Age: | | |
| Enter your Address: | | |
| Enter your Mobile no.: | | |
| Enter your Occupation: | | |
| Enter Account Number: | | |
| Enter Account Type (Current/Saving): | | |
| Enter Current Balance: | | |
| Enter Username: | | |
| Enter Pin: | | |
| Save/Create | | |
| Exit | | |

Close Account



Show Data



Transaction



Conclusion:

Through this Mini Project we learnt about the basics functionalities of Bank Management System. We learnt about the concept designing of Tkinter in python, through which we designed all the frames in the Mini Project. We also learnt about addition of database connectivity in our Mini Project, We use the Login form to connect our project to database. My Mini Project is a simple and easy to understand project which could be understood by a beginner and also a advanced user.

References:

- $\bullet \ https://projectworlds.in/python-projects-with-source-code/bank-management-system-project-in-python/ \\$
- $\bullet \ https://www.geeksforgeeks.org/python-program-to-create-bank account-class-with-deposit-withdraw-function/ \\$
- https://www.youtube.com/watch?v=sq76a19jAvQt=1185s