

COMPUTER SCIENCE

TERM-1 PROJECT 2021-22

BANKING SYSTEM

SYNOPSIS

ARNAV KUMAR

CLASS : XII SCIENCE

SESSION: 2021-2022

KENDRIYA VIDYALAYA, IIT POWAI MUMBAI

BY:

ARNAV KUMAR

TABLE OF CONTENTS

- ACKNOWLEDGEMENT
- PREFACE
- INTRODUCTION
- OBJECTIVE
- SCOPE
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- INPUT/OUTPUT REQUIREMENTS
- HARDWARE AND SOFTWARE REQUIREMENT
- TABLES AND FIELDS FOR DATABASE
- CONCLUSION
- BIBLIOGRAPHY



ACKNOWLEDGEMENT

I extend my sincere thanks to my Computer Science teacher Mr. Trilok Chand Haldunia, PGT Computer Science, who provide us this opportunity to make the project under his guidance.

I also thank my Principal Mrs. Mamata Bhattacharya for her guidance and support.

I would also like to thank my group members for their cooperation & coordination and my parents for encouraging me during the course of this project.

Finally I would like to thank CBSE for giving me this opportunity to undertake this project.

PREFACE

In the recent world, banking has become an integral part of every person's life. From savings to fixed deposits and then all the daily life activities, knowingly or unknowingly involves the banking system. And now, online banking has taken a step further in making our life more comfortable and efficient.

In the view of this development, we have decided to make a similar environment and tried to customise it according to everyone's need, involving salaries, FD's, savings, loans and person-to-person currency transfers.

INTRODUCTION

This project involves a virtual bank, “Banque de Vista” consisting of most of the features of a bank. Here we are dealing in a new currency, “”

This will simulate various tasks in banking sector and provide the user a basic experience of online banking.

This system can be used to educate people about the internal and external functioning of a bank.



OBJECTIVE

GOALS:

- Awareness to needful people.
- Developing confidence in online banking.
- Highlighting widespread ideas by means of simple and understandable presentation.

BENEFICIARIES:

- People of various sectors unaware of the usefulness of online banking.
- Students interested in gaining knowledge about the banking sector.
- It can be used to demonstrate various real-life situations to the people involved in internal management.

SCOPE

- This software can be useful as a simulator to present and teach various technical aspects in the online banking for the people interested in pursuing this field.
- In rural areas, with lack of internet facilities, this can prove to be an affordable yet effective medium to spread the advancements of this sector.
- With some improvement in the user interface, safety and security, and deployment of needful human resource, this model can further be used for commercial purposes.

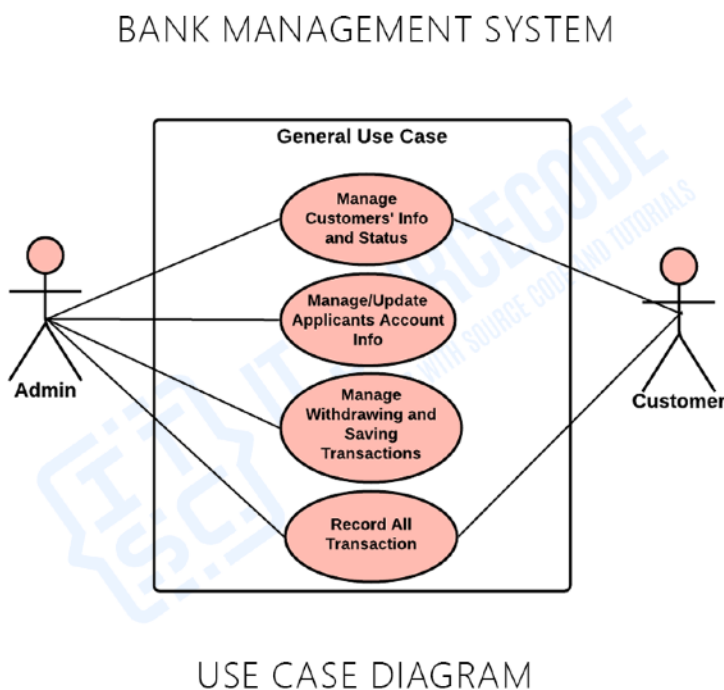


EXISTING STRUCTURE

- The software needs python3 environment. The pre-functioning data and the data further entered are stored in form of databases under MySQL platform.
- The system exploits various python3 modules and functions (in-built and user-defined).
- The overall program has been divided into four

p a r t s :

- 1) Pre-entered data management.
- 2) Accounts Data.
- 3) Data presentation.
- 4) Withdrawal and sharing



PROPOSED STRUCTURE

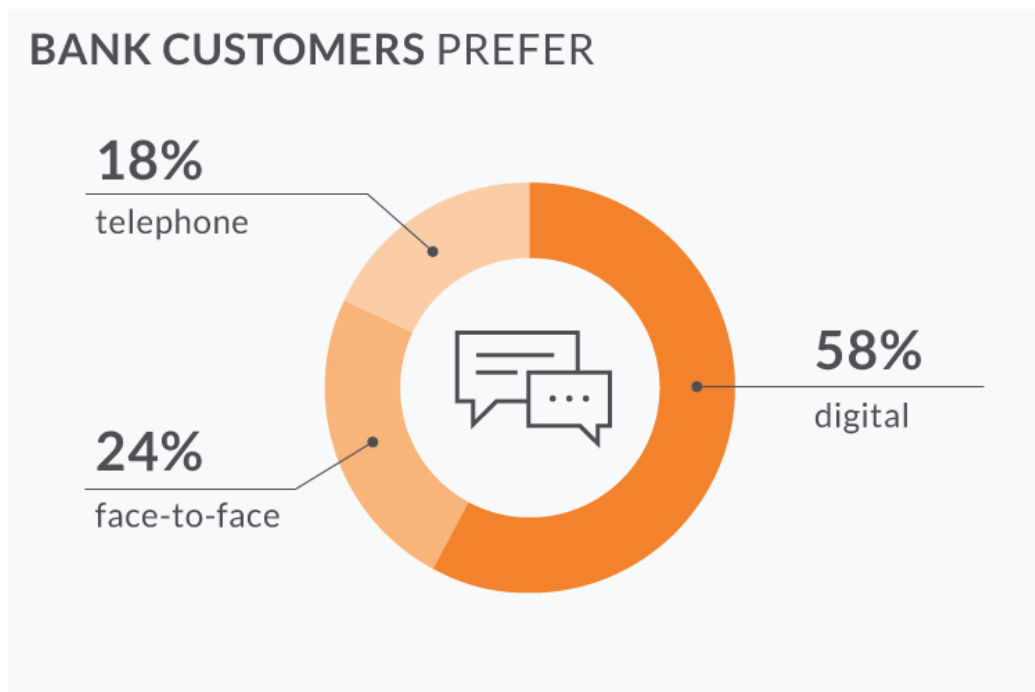
- For a better and more widespread usage of this software, safety and security measures like more strong passwords and division of storage under various password-protected databases is advisable.



- A particular system can be declared as a server via which various systems can be connected to each other providing better data-management, time efficiency and will also increase the system's efficacy.

INPUT & OUTPUT

- User Id, Phone number, password, Personal Identification Number (PIN), etc. are some basic data required for identification of user and their account management.
- Output consists of data related to account statements, deposit informations, confirmations of deposits and/or transfers, etc.



HARDWARE & SOFTWARE

● MINIMUM REQUIREMENTS:- 1)

HARDWARE:- 512MB RAM, 32GB ROM, 1Ghz

processor 2)

SOFTWARE:- Python, MySQL

● RECOMMENDED REQUIREMENTS:- 1)

HARDWARE:- 2GB RAM, 64GB ROM, 1.6Ghz

processor 2)

SOFTWARE:- Python3, MySQL (8.0.27)



TABLES & FIELDS

THE FOLLOWING TABLES ARE USED IN THIS SOFTWARE:

- Login details of Admin and Client
- Income and Transactions details of Client
- Savings and FD details of Client
- Loan details of Client
- Interest details over various tasks for Admin
- Necessary Client details for Each Admin

CONCLUSION

- This project has provided a very crucial and unforgettable experience to all of us where we, not only got to express and test our knowledge but also to experience and tackle a problem from the viewpoint of real life.
- Based on the analysis of input & output, it can be useful for the people from various spheres of society, from the unaware population to the future handlers of this sector.
- We all thank the users for investing their time to view our efforts. Also, we welcome any feedback or suggestions for further development of this program.

BIBLIOGRAPHY

- TEXT BOOK ON COMPUTER SCIENCE BY SUMITA ARORA
- TEXT BOOK ON COMPUTER SCIENCE BY NCERT.
- WWW.GOOGLE.CO.IN
- [HTTPS://WWW.WIKIPEDIA.ORG/](https://WWW.WIKIPEDIA.ORG/)
- [HTTPS://STACKOVERFLOW.COM](https://STACKOVERFLOW.COM)
- [HTTPS://WWW.MYSQLTUTORIAL.ORG](https://WWW.MYSQLTUTORIAL.ORG)
- [HTTPS://WWW.PYTHON.ORG](https://WWW.PYTHON.ORG)
- [HTTPS://PYTHONWORLD.IN/](https://PYTHONWORLD.IN/)
- [HTTPS://PYTHON4CSIP.COM/](https://PYTHON4CSIP.COM/)
- [HTTPS://WWW.W3SCHOOLS.COM](https://WWW.W3SCHOOLS.COM)



WIKIPEDIA
The Free Encyclopedia

विद्यया ऽ मृतमश्नुते



एन सी ई आर टी
NCERT

