Mini Project on
Retailer Reckoning

Subject Name: Mini project

Subject Code: KCS-554

COURSE : B.Tech.
SEMESTER: 5ᵗʰ

Submitted By:

Prince Prasad (2001430120069)
Naman Kumar Pandey (2001430120063)
Shubham Kumar Pandey(2001430120079)

Submitted to:
Dr. Sonia Juneja

Department of COMPUTER SCIENCE
IMS ENGINEERING COLLEGE
NH-09, Adhyatmik Nagar, Ghaziabad-201015
(2022-23)

VISION AND MISSION OF THE INSTITUTE AND DEPARTMENT

VISION OF THE INSTITUTE

To make IMSEC an Institution of Excellence for empowering students through technical education coupled with incorporating values and developing engineering acumen for innovations and leadership skills for the betterment of society.

MISSION OF THE INSTITUTE

1. To promote academic excellence by continuous learning in core and emerging Engineering areas using innovative teaching and learning methodologies.
2. To inculcate values and ethics among the learners.
3. To promote industry interactions and produce young entrepreneurs.
4. To create a conducive learning and research environment for life-long learning to develop the students as technology leaders and entrepreneurs for addressing societal needs.

VISION OF THE DEPARTMENT

To be a department of excellence by imparting state-of-the-art technical education and preparing globally competent professionals to contribute innovatively to the real-time requirements of industry and society.

MISSION OF THE DEPARTMENT

M1. To provide strong fundamental and technical skills through effective teaching-learning practices and hands-on experience with the latest tools and technologies.

M2. To encourage students to become industry-ready professionals by possessing multidisciplinary skills, leadership abilities, and research-oriented understanding.

M3. To impart entrepreneurship skills, and develop a sense of respect for social values and professional ethics among the upcoming IT professionals.

PROGRAM OUTCOMES (POS)

S. No.	Program Outcomes / Program Specific Outcomes
PO1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2.	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3.	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4.	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5.	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6.	**The engineer and society:** apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7.	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8.	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9.	**Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10.	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11.	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12.	**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OUTCOMES (PEOs)

The Graduates will be able to:

PEO1: develop strong competency to formulate, analyse, and solve problems of the IT industry using the necessary mathematical, scientific, and engineering fundamentals.

PEO2: apply the technical knowledge and competency for a successful career in the software industry and progressively hold more responsible positions.

PEO3: demonstrate ethical behaviour as technical professionals and a sense of responsibility towards the impact of technology on society.

PEO4: demonstrate critical thinking, professional communication, teamwork, and entrepreneurial skills necessary for high productivity towards nation-building with a commitment of pursuing lifelong learning.

PROGRAM SPECIFIC OUTCOME (PSOs)

Upon completion of this program, the student will be able to:

PSO1: apply knowledge and skills required for software development, database administration, and entrepreneurship in emerging fields like artificial intelligence, data analytics, networking, and cloud computing.

PSO2: apply programming languages, tools and techniques to demonstrate the acquired technical skills for seeking solutions to the problems of various interdisciplinary challenges

COURSE OUTCOMES

CO. No.	DESCRIPTION	COGNITIVE LEVEL (BLOOMS TAXONOMY)
CO1(C312.1)	Developing a technical artifact requiring new technical skills and effectively utilizing a new software tool to complete a task	K4,K5
CO2(C312.2)	Writing requirements documentation, Selecting appropriate technologies, identifying and creating appropriate test cases for systems.	K5,K6
CO3(C312.3)	Demonstrating understanding of professional customs & practices and working with professional standards.	K4,K5
CO4(C312.4)	Improving problem-solving, critical thinking skills and report writing.	K4,K5
CO5(C312.5)	Learning professional skills like exercising leadership, behaving professionally, behaving ethically, listening effectively, participating as a member of a team, developing appropriate workplace attitudes	K2,K4

CO-PO-PSO MAPPING

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
C312.1	3	3	3	3	3	2	1	2	2	2	2	3	3	3
C312.2	3	3	2	2	2	1	1	2	2	3	1	1	2	3
C312.3	1	1	1	1	1	3	2	3	2	2	2	2	2	1
C312.4	3	3	3	3	3	2	1	1	2	3	1	3	1	1
C312.5	1	1	1	1	1	2	2	3	3	3	3	1	1	1
C312	2.2	2.2	2	2	2	2	1.4	2.2	2.2	2.6	1.8	2	1.8	1.8

DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature:
Name: Prince Prasad
Roll No : 2001430120069
Date: 02/01/2023

Signature:
Name: Naman Kumar Pandey
Roll No : 2001430120063
Date: 02/01/2023

Signature:
Name: Shubham Kumar Pandey
Roll No : 2001430120079
Date: 02/01/2023

CERTIFICATE

This is to certify that Mini Project/Internship Assessment Report entitled **" Retailer Reckoning"** which is submitted by **Prince Prasad , Naman Kumar Pandey and Shubham Kumar Pandey** in partial fulfillment of the requirement for the award of degree B. Tech. in Department of Computer Science and Engineering of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh, Lucknow is a record of the candidate's own work carried out by him/her under my supervision. The matter embodied in this report is original and has not been submitted for the award of any other degree.

Supervisor : Dr. Sonia Juneja
Date : 02/01/2023

Signature:
Name: Prince Prasad
Roll No : 2001430120069
Date: 02/01/2023

Signature:
Name: Naman Kumar Pandey
Roll No : 2001430120063
Date: 02/01/2023

Signature:
Name: Shubham Kumar Pandey
Roll No : 2001430120079
Date: 02/01/2023

ACKNOWLEDGEMENT

We would like to express my gratitude to **Dr. Sonia Juneja** my supervisor for this project. We would like to thank her for her constant support, enthusiastic encouragement and useful critiques. We would like to thank our Director **Dr. Vikram Bali** and HOD of Computer Science **Dr. Sonia Juneja** for providing me this opportunity.

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ABSTRACT

The Retailer Recknoning is an application for maintaining a person's account in a retailer shop. In this project we tried to show the working of a database using mysql and cover the basic functionality of python. To develop a project for solving financial applications of a customer in retailer shop in order to nurture the needs of an end of books by providing various ways to perform retailer's tasks. Also to enable the user's work space to have additional functionalities which are not provided under a conventional retailer reckoning project. The Retailer Reckoning undertaken as a project is based on relevant technologies. The main aim of this project is to develop software for Retailers. This project has been developed to carry out the processes easily and quickly, which is not possible with the manuals systems, which are overcome by this software. This project is developed using Python and MYSQL use for database connection. Creating and managing requirements is a challenge of IT, systems and product development projects or indeed for any activity where you have to manage a contractual relationship. Organization need to effectively define and manage requirements to ensure they are meeting needs of the customer, while proving compliance and staying on the schedule and within budget. The impact of a poorly expressed requirement can bring a business out of compliance or even cause injury or death. Requirements definition and recknoning is an activity that can deliver a high, fast return on investment. The project analyzes the system requirements and then comes up with the requirements specifications. It studies other related systems and then come up with system specifications. The system is then designed in accordance with specifications to satisfy the requirements. The system design is then implemented with MYSQL,and Python. The system is designed as an interactive and content recknoning. The content Recknoning deals with data entry, validation confirm and updating whiles the interactive system deals with system interaction with the administration and users. Thus, above features of this project will save transaction time and therefore increase the efficiency of the system.

PROJECT AIMS AND OBJECTIVES

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The main aim of designing and developing this Retailer reckoning mysql primarily based
Engineering project is to provide secure and efficient online retailing facilities to the banking
customers over the internet.. A Pages, MYSQL database used to develop this
retailer application where all retailer can login through the secured web page by
their account login id and password. Users will have all options and features in that application like get
account summary, money withdraw to others, and deposit amount or
money to enter retailing as well as other customers by simply adding them as payees.

Main Goals:

Our motto is to develop a software program for managing the entire retailing
process related to customer accounts and to keep each every track about their property and their
various transaction processes efficiently.

1.we Hereby, our main objective is the customer's satisfaction considering today's
faster in the world.

2. Customer Satisfaction:
Our client can do his operations comfortably without any risk or losing of his
privacy.
Our software will perform and fulfill all the tasks that any customer would
desire.

3. Saving Customer Time:
Our Client doesn't
 need to interrupt for small operation.

4. Protecting The Customer:
It helps the customer to be satisfied and comfortable in his choices, this protection contains customer's
account, money and his privacy

INTRODUCTION OF RETAILER RECKONING

The "**RETAILER RECKONING**" project is a model Internet Banking Site. This site enables the customers to perform the basic banking transactions by sitting at their office or at homes through PC or laptop. The system provides the access to the customer to create an account, deposit/withdraw the cash from his account, also to view reports of all accounts present. The customers can access the banks website for viewing their Account details and perform the transactions on account as per their requirements. With Internet Banking, the brick and mortar structure of the traditional banking gets converted into a click and portal model, thereby giving a concept of virtual banking a real shape. Thus today's banking is no longer confined to branches. E-banking facilitates banking transactions by customers round the clock globally.   The primary aim of this "**RETAILER RECKONING**" is to provide an improved design methodology,which envisages   the future expansion, and modification, which is necessary for a core sector like banking. This necessitates the design to be expandable and modifiable and so a modular approach is used in developing the application software. Anybody who is an Account holder in this bank can become a member of **RETAILER RECKONING** . He has to fill a form with his personal details and Account Number.

TOOLS & TECHNOLOGIES USED

HARDWARE REQUIREMENT:

PROCESSOR: Intel Pentium III or later
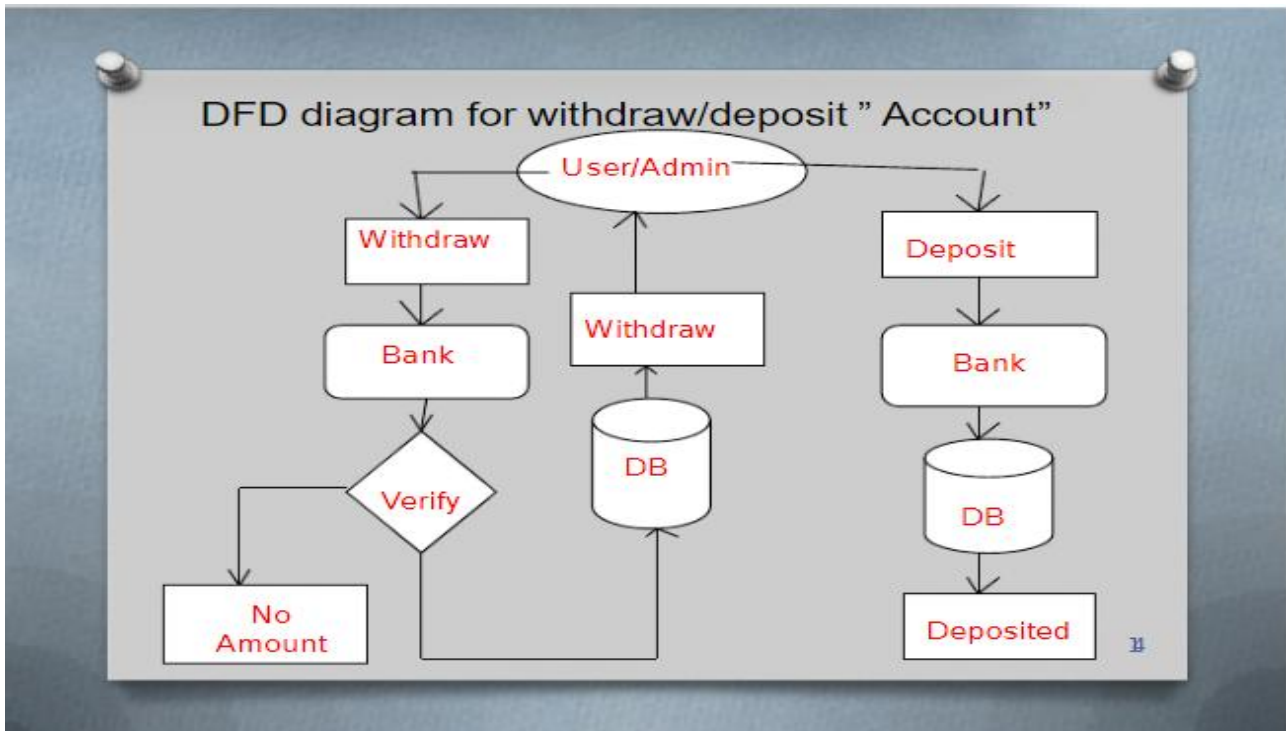
Main Memory(RAM):256 MB

MOUSE : 512 MB OR MORE

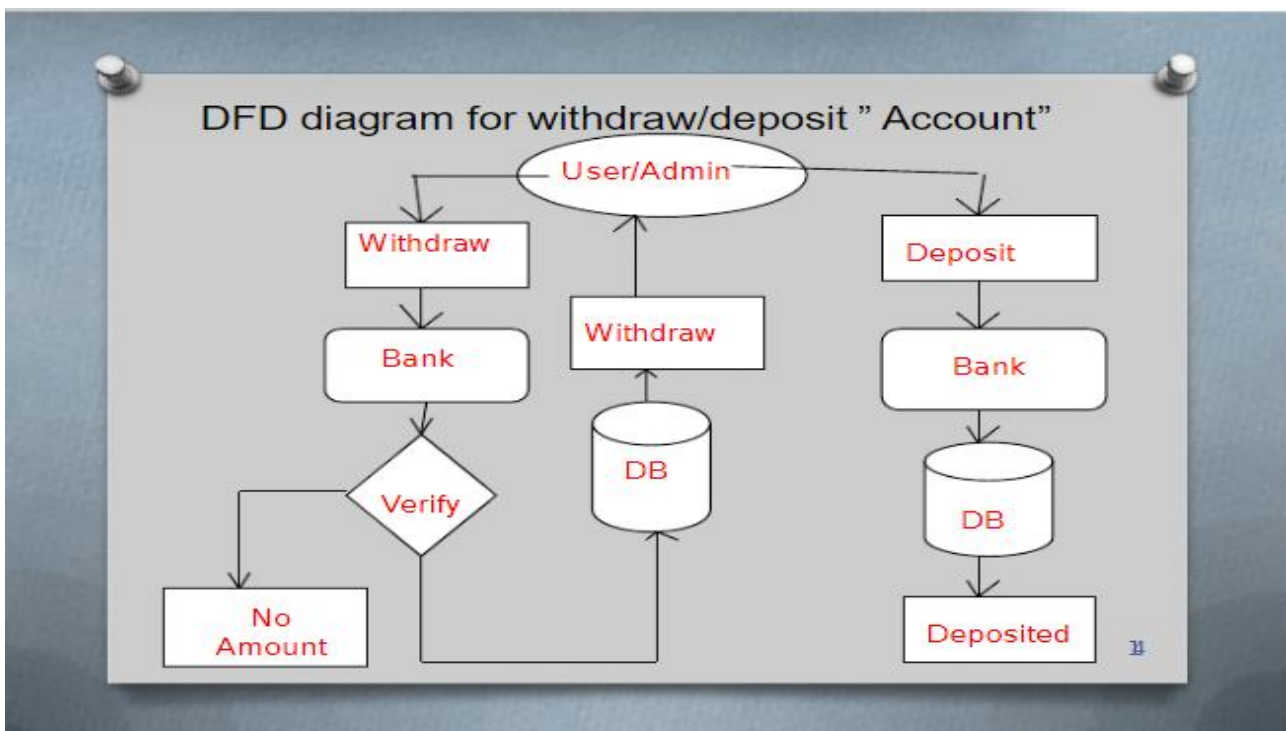## SOFTWARE REQUIREMENTS:

PYTHON AND MYSQL

MYSQL.CONNECTOR

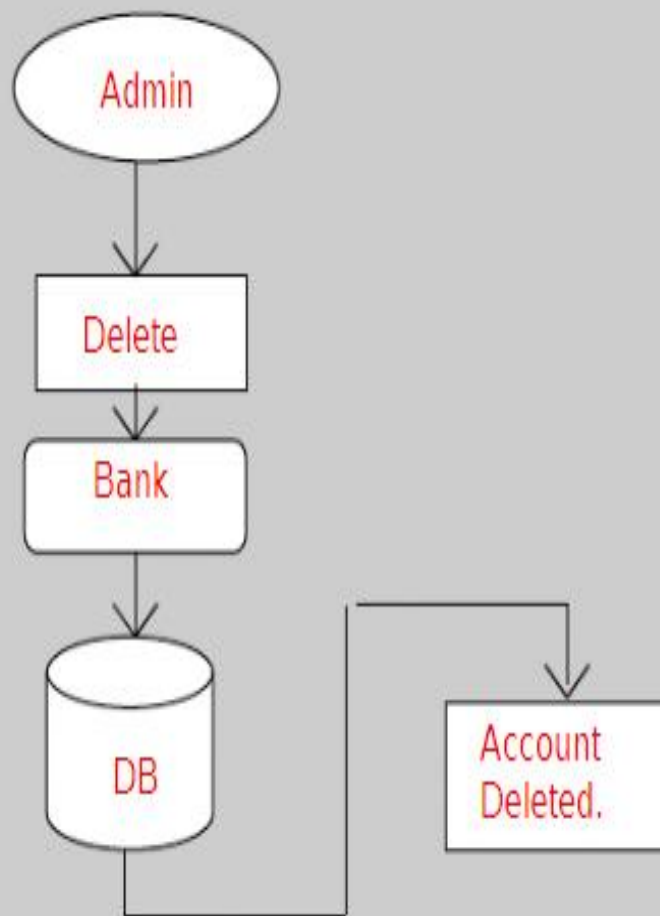OPERATING SYSTEM : Windows 7,8,9,10,11,XP

DATA FLOW DIAGRAM

Create new account DFD

+

Deleting an account DFD

OUTPUT SCREENSHOT

```
MySQL 8.0 Command Line Cli    ✕    +    ∨

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use retailer;
Database changed
mysql> show tables;
+--------------------+
| Tables_in_retailer |
+--------------------+
| account            |
| amount             |
+--------------------+
2 rows in set (0.00 sec)

mysql> select * from account;
+----------------------+------------+------------+------------+----------+------+
| name                 | acno       | dob        | add        | phn      | ob   |
+----------------------+------------+------------+------------+----------+------+
| Naman Kumar Pandey   | 6397903452 | 07/04/2002 | 639703452  | delhi    |    0 |
| Shubham Kumar Pandey | 9569667899 | 28/01/2002 | 9569667899 | Banaras  |  500 |
+----------------------+------------+------------+------------+----------+------+
2 rows in set (0.00 sec)

mysql>
```

```
1.OPEN NEW ACCOUNT
2.DEPOSIT AMOUNT
3.WITHDRAW AMOUNT
4.BALANCE ENQUIRY
5.DISPLAY CUSTOMER DETAILS
6.CLOSE AN ACCOUNT

Enter Task No :2
Enter Amount:1000
Enter Account No:6397903452
```

17

```
mysql> select * from amount;
+------------------------+------------+---------+
| name                   | acno       | balance |
+------------------------+------------+---------+
| Naman Kumar Pandey     | 6397903452 |     800 |
| Shubham Kumar Pandey   | 9569667899 |     200 |
+------------------------+------------+---------+
2 rows in set (0.00 sec)

mysql>
```

```
    1.OPEN NEW ACCOUNT
    2.DEPOSIT AMOUNT
    3.WITHDRAW AMOUNT
    4.BALANCE ENQUIRY
    5.DISPLAY CUSTOMER DETAILS
    6.CLOSE AN ACCOUNT

Enter Task No :4
Enter Account No : 9569667899
Balance for Account:  9569667899 is  200
```

```
    1.OPEN NEW ACCOUNT
    2.DEPOSIT AMOUNT
    3.WITHDRAW AMOUNT
    4.BALANCE ENQUIRY
    5.DISPLAY CUSTOMER DETAILS
    6.CLOSE AN ACCOUNT

Enter Task No :5
Enter Account No:6397903452
Naman Kumar Pandey 6397903452 07/04/2002 639703452 delhi 0
    1.OPEN NEW ACCOUNT
    2.DEPOSIT AMOUNT
    3.WITHDRAW AMOUNT
    4.BALANCE ENQUIRY
    5.DISPLAY CUSTOMER DETAILS
    6.CLOSE AN ACCOUNT
```

```
    1.OPEN  NEW  ACCOUNT
    2.DEPOSIT  AMOUNT
    3.WITHDRAW  AMOUNT
    4.BALANCE  ENQUIRY
    5.DISPLAY  CUSTOMER  DETAILS
    6.CLOSE  AN  ACCOUNT

 Enter  Task  No  :6
 Enter  Account  No:6397903452

    1.OPEN  NEW  ACCOUNT
    2.DEPOSIT  AMOUNT
    3.WITHDRAW  AMOUNT
    4.BALANCE  ENQUIRY
    5.DISPLAY  CUSTOMER  DETAILS
    6.CLOSE  AN  ACCOUNT
```

```
mysql> select *from account;
+---------------------+------------+------------+------------+---------+-----+
| name                | acno       | dob        | add        | phn     | ob  |
+---------------------+------------+------------+------------+---------+-----+
| Shubham Kumar Pandey | 9569667899 | 28/01/2002 | 9569667899 | Banaras | 500 |
+---------------------+------------+------------+------------+---------+-----+
1 row in set (0.00 sec)

mysql>
```
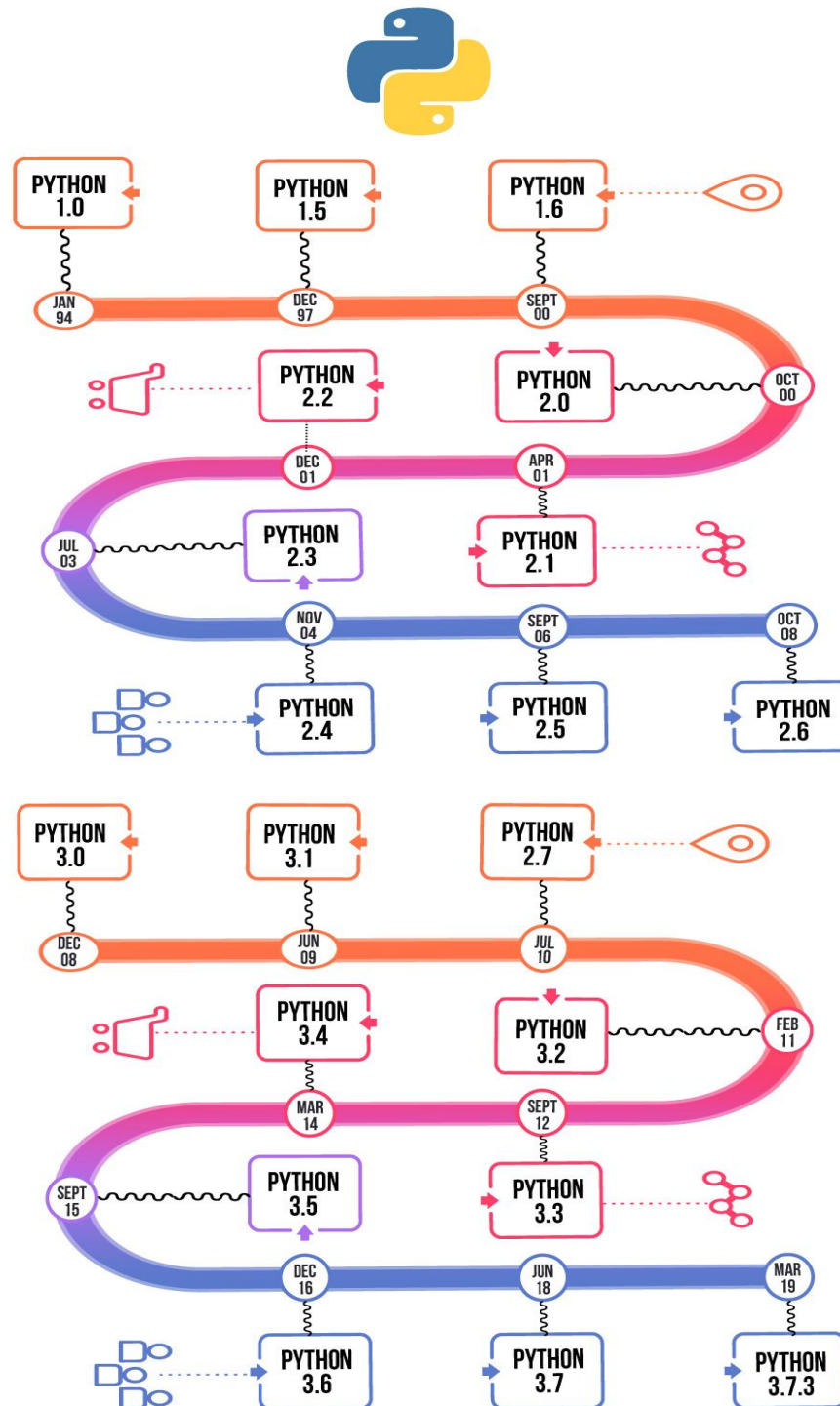
HISTORY OF PYTHON

Python is a widely-used general-purpose, high-level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code.

In the late 1980s, history was about to be written. It was that time when working on Python started. Soon after that, Guido Van Rossum began doing its application-based work in December of 1989 at Centrum Wiskunde & Informatica (CWI) which is situated in the **Netherlands**. It was started firstly as a hobby project because he was looking for an interesting project to keep him occupied during Christmas. The programming language in which Python is said to have succeeded is ABC Programming Language, which had interfacing with the Amoeba Operating System and had the feature of exception handling. He had already helped to create ABC earlier in his career and he had seen some issues with ABC but liked most of the features. After that what he did was really very clever. He had taken the syntax of ABC, and some of its good features. It came with a lot of complaints too, so he fixed those issues completely and had created a good scripting language that had removed all the flaws. The inspiration for the name came from BBC's TV Show – 'Monty Python's Flying Circus', as he was a big fan of the TV show and also he wanted a short, unique and slightly mysterious name for his invention and hence he named it Python! He was the "Benevolent dictator for life" (BDFL) until he stepped down from the position as the leader on 12th July 2018. For quite some time he used to work for Google, but currently, he is working at Dropbox.

The language was finally released in 1991. When it was released, it used a lot fewer codes to express the concepts, when we compare it with Java, C++ & C. Its design philosophy was quite good too. Its main objective is to provide code readability and advanced developer productivity. When it was released it had more than enough capability to provide classes with inheritance, several core data types exception handling and functions.

Following are the illustrations of different versions of Python along with the timeline

__CONCLUSION__

This project is developed to nurture the needs of a user in a RETAILER SHOP by embedding all the tasks of transactions taking place in a DATABASE. Future version of this project will still be much enhanced than the current version. Writing and depositing checks are perhaps the most fundamental ways to move money in and out of a checking account, but advancements in technology have added. All RETAILERS have rules about how long it takes to access your deposits, how many times you're allowed in a day. Access to the balance in your checking account can also be limited by businesses that place holds on your funds. Retailering are providing internet banking services also so that the customers can be attracted. By asking the retailers we came to know that maximum numbers of internet account holders are **page** youth and business man. Online retailing is an innovative tool that is fast becoming a necessity. It is a successful strategic weapon for banks to remain profitable in a volatile and competitive marketplace of today. If proper training should be given to retailer by the bank employs to open an account will be beneficial secondly the website should be made friendlier from where the first time customers can directly make and access their accounts. Thus the retailer reckoning it is developed and executed successfully.

IMS Engineering College, Ghaziabad
PROFORMA OF MINI-PROJECT PROPOSAL

Name of the Mini Project: Retailer Reckoning   **Date :**02/01/2023

S. No	Roll number	Student Name	Signature
1.	2001430120069	Prince Prasad	
2.	2001430120063	Naman Kumar Pandey	
3.	2001430120079	Shubham Kumar Pandey	

AIM of Mini Project:

Our motto is to develop a software program for managing the entire retailing process related to customer and to keep each every track about their property and their various transaction processes efficiently.

Methodology Used:

Technology Used:

Supervisor Name: Dr. Sonia Juneja

Signature of the Supervisor:
Date: ....

CERTIFICATE

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Supervisor : Dr. Sonia Juneja
Date : 02/01/2023

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Supervisor : Dr. Sonia Juneja
Date : 02/01/2023

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Supervisor : Dr. Sonia Juneja
Date : 02/01/2023