



**MEDI-CAPS**  
**UNIVERSITY**

# OOPS MINI PROJECT ON TOPIC : **ATM MANAGEMENT SYSTEM**

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# About ATM Machine

- ATMs are Automated Teller Machines that are used to carry day-to-day financial transactions. ATMs can be used to withdraw money or to deposit money or even to know the information of an account like the balance amount, etc.
- They are convenient and easy to use, it allows consumers to perform quick self-service transactions.



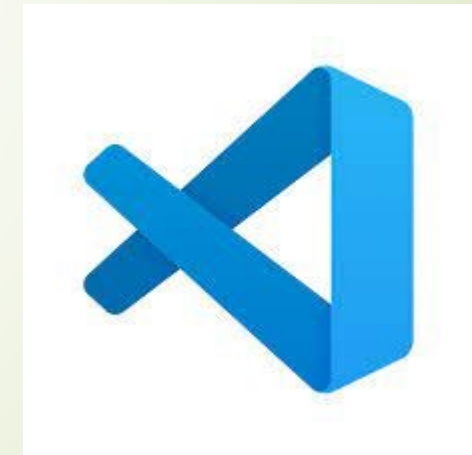
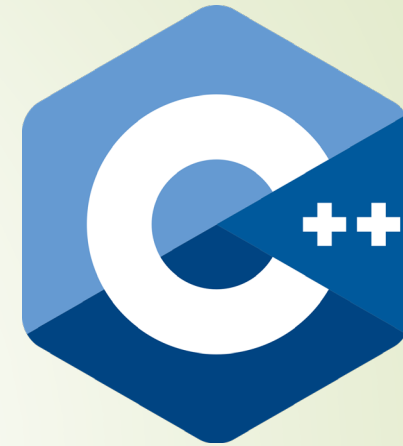


# Our Project In Brief

- Here is a simple project on ATM(Automated teller machine).The code is written in C++ language. Visual studio is used to compile the code.
- This code can perform most of the functions that all standard atm machines can do.
- You can check amount present in your account, withdraw balance, update mobile no., Check user details, etc.
- ATM management system we designed is efficient and easy to use.

# Technology Used

- **Technology:**
- We have used **C++ programming language** to design this ATM management System.
- We have used **VS code editor** to run this code.
- We have used different **C++ Header files**. Like:
  - `#include<iostream>`
  - `#include <conio.h>`
  - `#include <string>`
  - `#include <fstream>`





# A brief about C++ Header Files

## ➤ **<iostream>:**

This is a standard input output stream. Used for basic read and write operations.

## ➤ **<conio.h>:**

This is a non-standard header file used in C++ stands for console input and output because it contains most of console i/o functions.

## ➤ **<string>:**

This is required for implementation various string functions in C++.

## ➤ **<fstream>:**

This header file must be included in code if we want to perform file operations.





# Concepts Implemented

- **Class And Objects.**
- **Access Modifiers in C++.**
- **Data types and variables.**
- **Switch Case.**
- **If/Else statements.**
- **Concepts of strings and various types of operators.**
- **File Handling.**

# ATM FEATURES

## ➤ Secured Access

**Access** into ATM is **secured by PIN**:

No user can access the atm without entering his/her correct Account No. and Password.

This is achieved with the help of **login() Function**.

It uses **file handling features** with the help of which it compares the user details and step in further only after details are matched and verified.



Please enter your Account No.:  
123456

Please enter your password:  
1111

# Cash Withdraw And Check Balance:

- These features are accomplished with the help of **cashWithdraw()** and **getBalance()** functions respectively.
- **cashWithdraw()** function
  1. Firstly find user's account
  2. Then it deduct the amount user withdraw from user's existing balance.
  3. Then update the user data file from deducted amount.
- **getBalance()** function:
  1. Simply open the user detail file and print the existing user balance.







## Check User Details:

- This feature is accomplished by a simple class object relation.
- Here object user is calling class functions getName(), getMob(), getBalance(), getAcc\_No().
- These functions are returning Name, Mobile No., Account Balance, and Account No. of user respectively.

## Update Mobile Number:

- In this feature object user call's getMobile() function and verify user's old mobile no. once it is done, user enter his new mobile no. and it get's updated.



## Add Balance to Account:

- It is accomplished by a simple calling of addBal() function by object user.
- addBal() function adds the input amount that user had entered to the existing user's account balance. That updated balance is updated in the user file using ofstream function.

## Nearest Bank Branch Details:

- This feature returns the distance of nearest bank branch from atm.



## **Search bank branch by PINCODE:**

- First user enters the pin code near which he had to find bank branch.
- ATM reads the pin code and returns the address of branch at that pin code.

## **Search bank branch by City Name:**

- User enters the city name in which he have to find bank branch.
- If bank have a branch in that city then it will display its address.



# Fixed Deposit Facility

- Our Atm allows user to fix deposit their money for a specific period of time.
- User can make a FD of more than 25000 Rupees only.
- Making a FD of less amount will display a error message.
- After the FD is successfully created a success message with date and time is printed.
- This new FD is reflected in user's account and details are saved.



**Let us run the code.....**






## Improvements Required:

- Implementing GUI with enhance user experience.
- Fund's transfer feature is lacking.
- More pin codes can be added in branch search feature.
- User is not able to change his/her atm PIN.
- No Administrator login feature.





# CONCLUSION

- This project ATM Management System has been developed as flexible and efficient project within the available resources and time.
  - Keeping in mind the improvements required in future more work can be done to improve its security and user experience.
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**Thank  
You**

