ATM Machine Simulation

Introduction:

ATM Machine simulation project is written in c++ . The project file contains main.cpp file. By using this project user can easily make transaction like deposit and withdraw money using his/her account , there is a feature through which user can change his/her pin i.e personal identification number.

Readme file structure:

- Workflow
- Folder Structure
- Contributors list and summery
- Challenges faced
- Run on pc, Unit test, Code Coverage

Workflows

Build	Git Inspector	CPP CHECK
PASSING	PASSING	PASSING

Folder Structure:

Sr_no.	Explanation
1_Requirement	All requirements of the projects are here.
2_Design	Design part of the project including Structure and UML diagrams.
3_Implementation	Coding part is here in this folder.
4_TestPlan	This Section includes test cases and test plans.
5_Report	The overall project report is here in this folder.
6_Image&Videos	This folder contains all images and videos.
7_Daily_Stand_Up	This folder contains Daily meetings reports.

TEAM MEMBERS:-

PS NO.	NAME
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99005818	Pratiksha Rasekar
99005851	Somesh Kumar

CNTRIBUTION LIST:

Ps No.	NAME	CONTRIBUTION
99005768	Samiksha Dhoble	Created Overview of the project, Worked on low level design, high level and low level test plan
99005775	A. Dilip Kumar	Worked on implementation part i.e., inc, src, main, makefile and also captured the Images and Videos
99005796	K. Narasimha	Worked on Requirements and test file
99005818	Pratiksha Rasekar	Worked on report and workflows
99005851	Somesh Kumar	Worked on Structure and Designing part i.e UML and High level designing

1.Requirement :-

Introduction :-

ATM Simulator System is based on a concept of managing cash transactions of a personal account. Before stepping into the dashboard a user has to pass through a login/pin system to get access, then the user can manage amount activities such as withdrawal, deposits, balance inquiry, and fund transfers. There's a quick cash feature from the withdrawal option. This ATM Simulator has exact the same features as that of real ATM.

Objectives :-

ATM Machine Simulation is based on a concept of managing an account personally. From this system, the user can check total balance, Deposit Amount and Withdraw Amounts easily as it is not time- consuming.

These consists of 7 modules :

1. Login Pin System
2. Withdrawals
3. Quick Cash
4. Deposits
5. Account Types
6. Check balance
7. Funds Transfer

Benefits :-

1. It saves a lot of time for the users.
2. It keeps us realistic.
3. It keeps us accountable.
4. It sets boundaries.

4W and H :-

Who:

Atm Machine Simulation is an application which is used for easy transactions. It used by all the users who are having bank accounts with online transaction facilities.

What:

It is helpful in order to check the data of bank balance, deposit amount, withdraw amount, can change pin.

When:

It can be used for our personal and professional transactions.

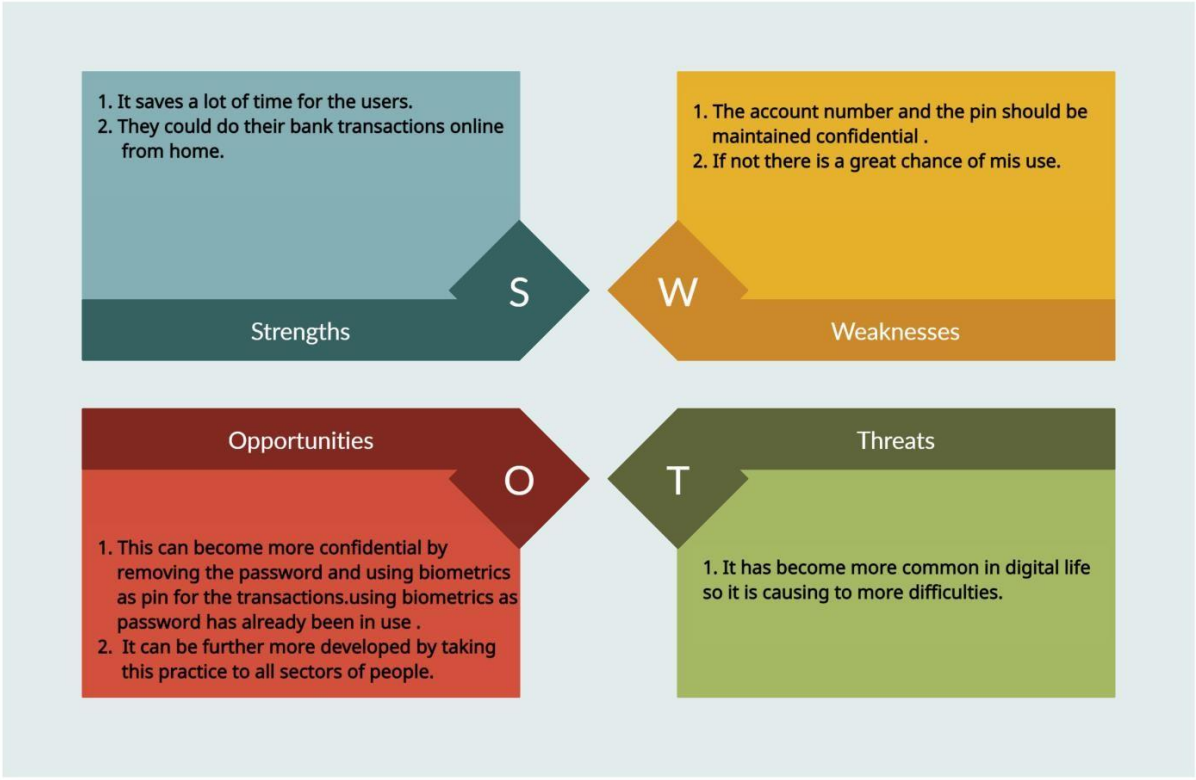
Where:

It is used for easily understandable online banking.

How:

This project is implemented to do the transactions by entering the account number as input.

SWOT ANALYSIS :-



HIGH LEVEL REQUIREMENTS :-

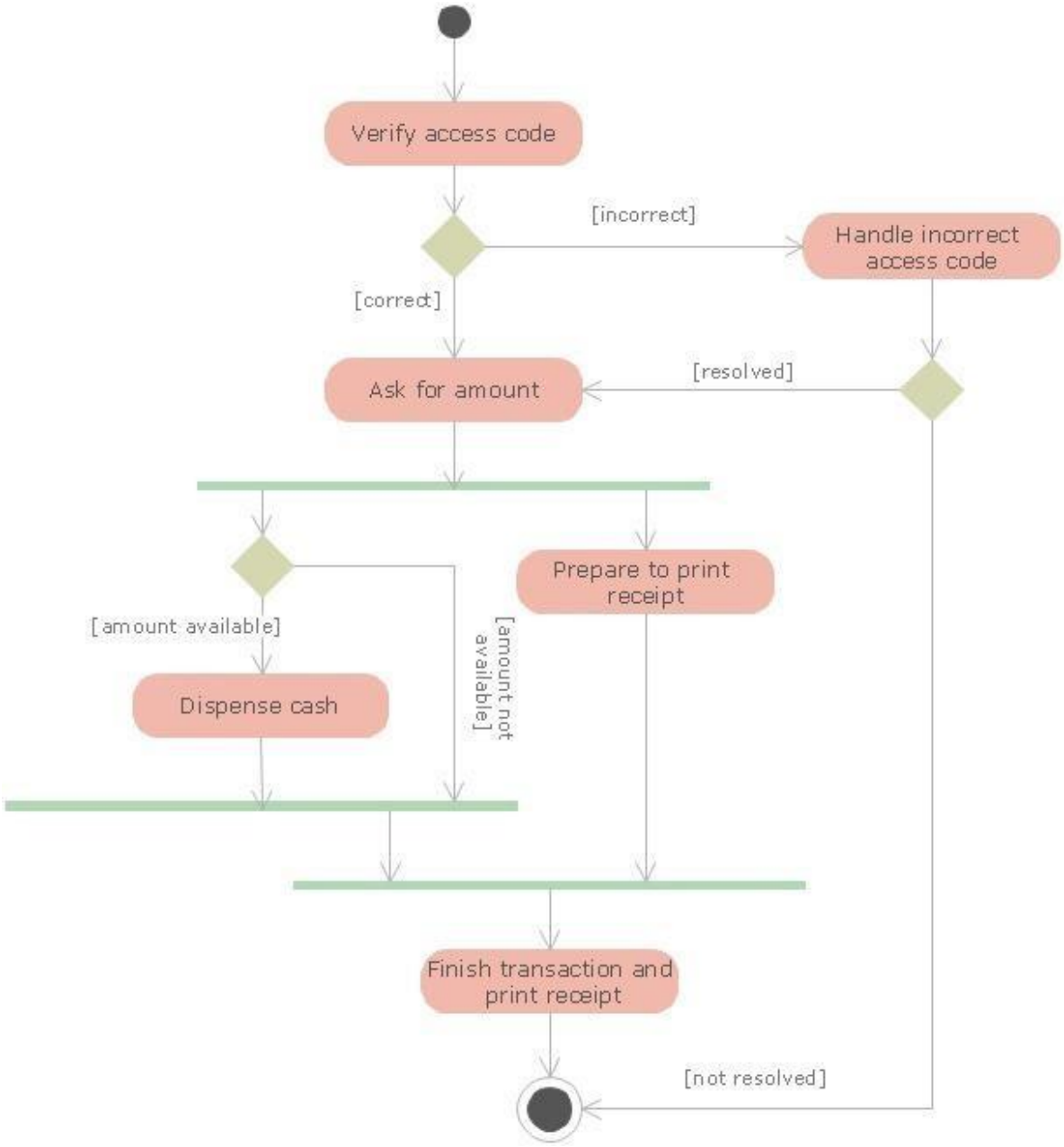
ID	DESCRIPTION	STATUS
HL1	ACCOUNT	IMPLEMENTED
HL2	CHECKINGS	IMPLEMENTED
HL3	SAVINGS	IMPLEMENTED
HL4	TRANSFERING	IMPLEMENTED
HL5	PAYING	FUTURE

LOW LEVEL REQUIREMENTS :-

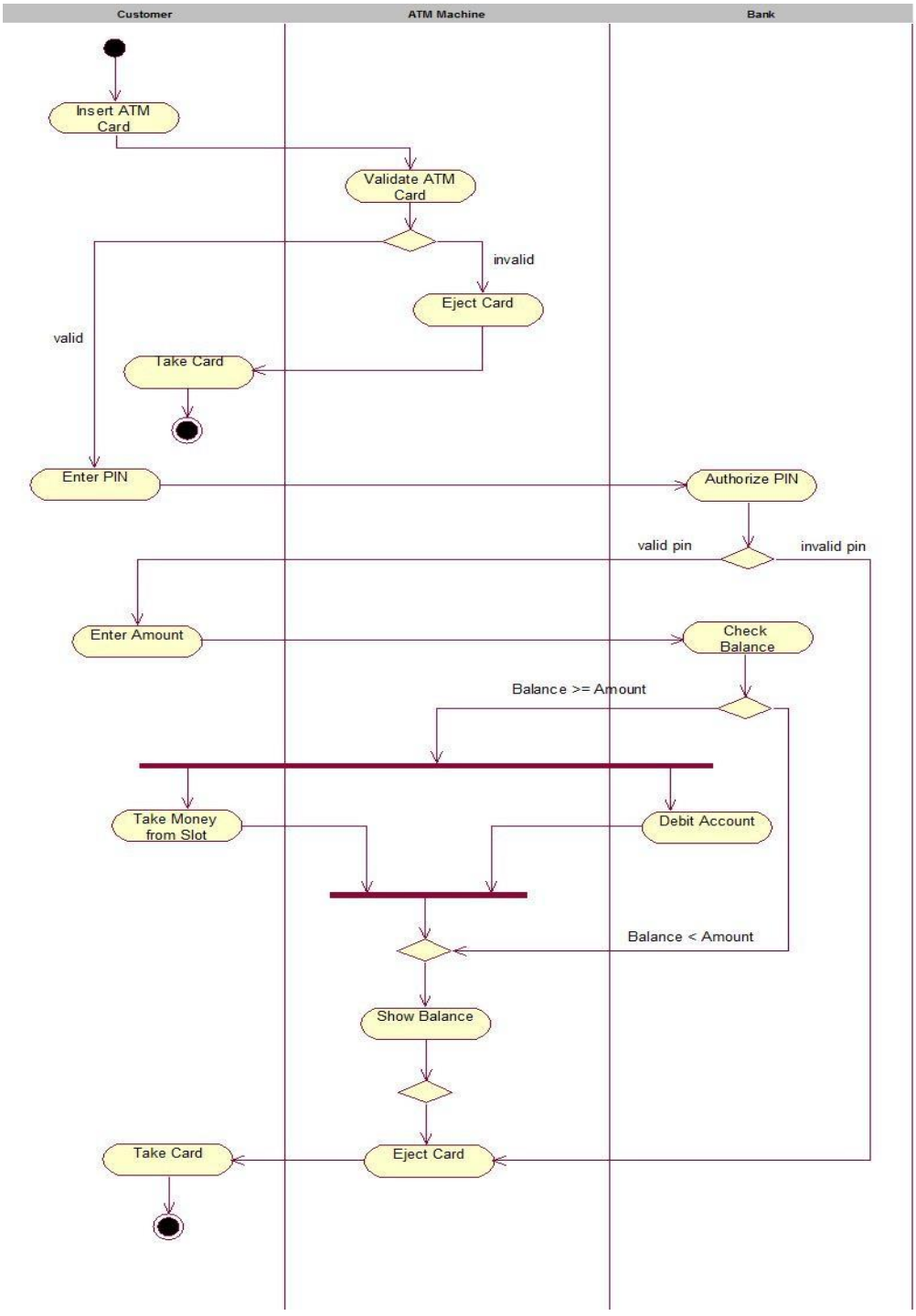
ID	DESCRIPTION	STATUS
HL1_L1	ACCOUNT TYPE	IMPLEMENTED
HL1_L2	ACCOUNT NUMBER	IMPLEMENTED
HL1_L3	PIN NUMBER	IMPLEMENTED
HL2_L1	BALANCE CHECK	IMPLEMENTED
HL2_L2	WITHDRAW	IMPLEMENTED
HL2_L3	DEPOSIT	IMPLEMENTED
HL3_L1	TRANSFER	IMPLEMENTED
HL4_L1	PAY BILLS	FUTURE
HL4_L2	PAY INTREST	FUTURE

2.DESIGN :-

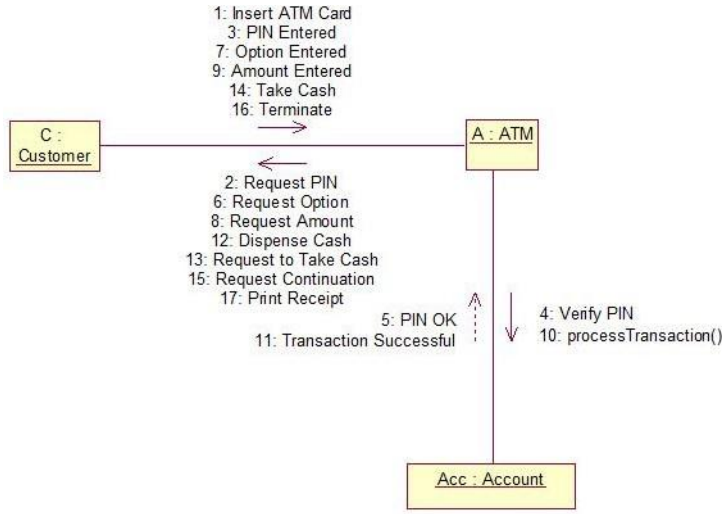
Flowchart



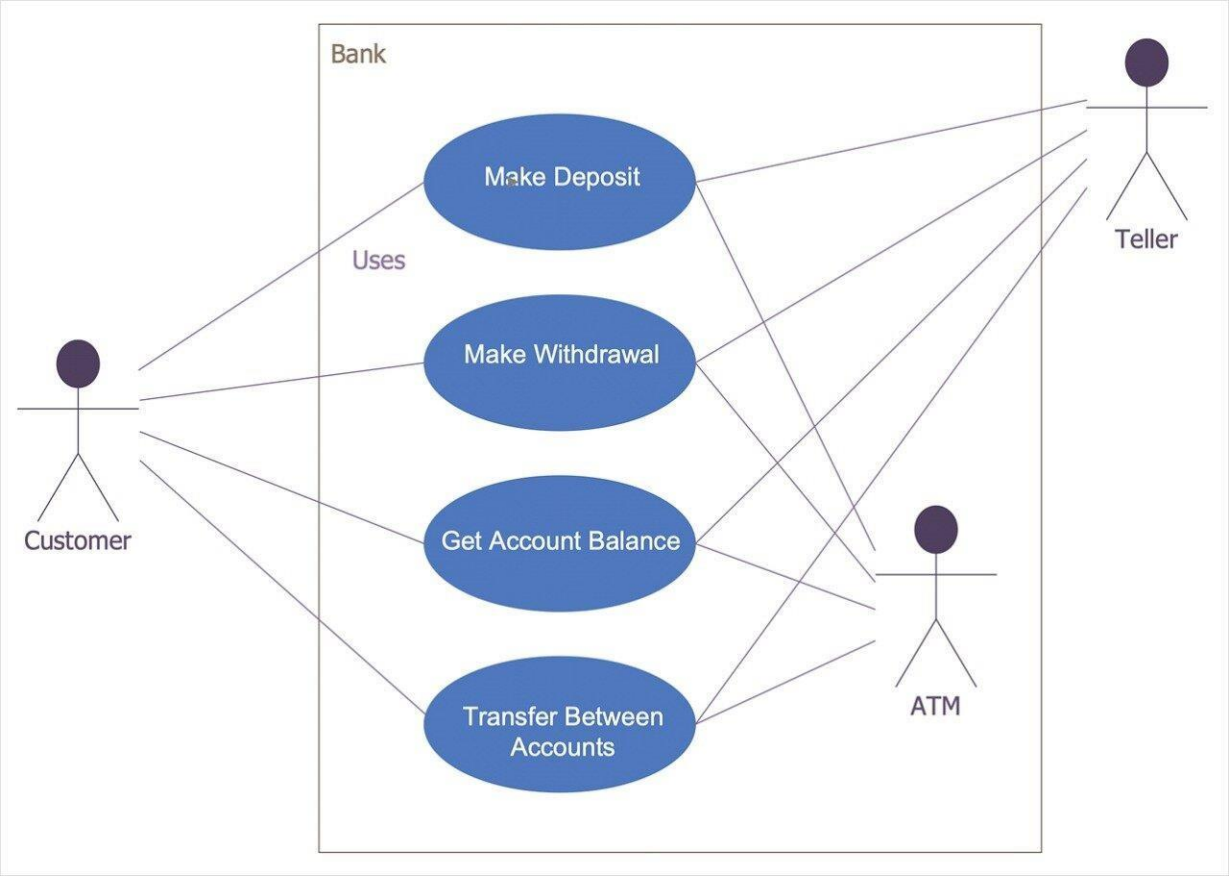
Activity Diagram



Colloboration Diagram



Use case Diagram



4.TEST PLAN :-

HIGH LEVEL TEST PLAN

TEST ID	DESCRIPTION	STATUS
H-01	User should be able to see home page	IMPLEMENTED
H-02	User should be able to enter pin	IMPLEMENTED
H-03	User should be able to see main menu	IMPLEMENTED
H-04	User should be able to enter option present in main menu	IMPLEMENTED
H-05	User should be able to see his/her balance	IMPLEMENTED
H-06	User should be able to withdraw cash	IMPLEMENTED
H-07	User should be able to deposit funds	IMPLEMENTED
H-08	User should be able to change pin	IMPLEMENTED
H-09	User should be able to exit	IMPLEMENTED

LOW LEVEL TEST PLAN

TEST ID	DESCRIPTION	HLT ID	STATUS
L-01	User should be able to log in with his/her pin	H-2	IMPLEMENTED
L-02	If pin is incorrect then error should display	H-2	IMPLEMENTED
L-03	User should be able to withdraw amount to his current balance	H-6	IMPLEMENTED
L-04	The amount to be withdraw shall not exceed balance	H-6	IMPLEMENTED
L-05	User should be able to add an amount to his current balance	H-7	IMPLEMENTED