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	CODE COVERAGE
PASSING	PASSING

Build coeOvergae

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:-

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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.

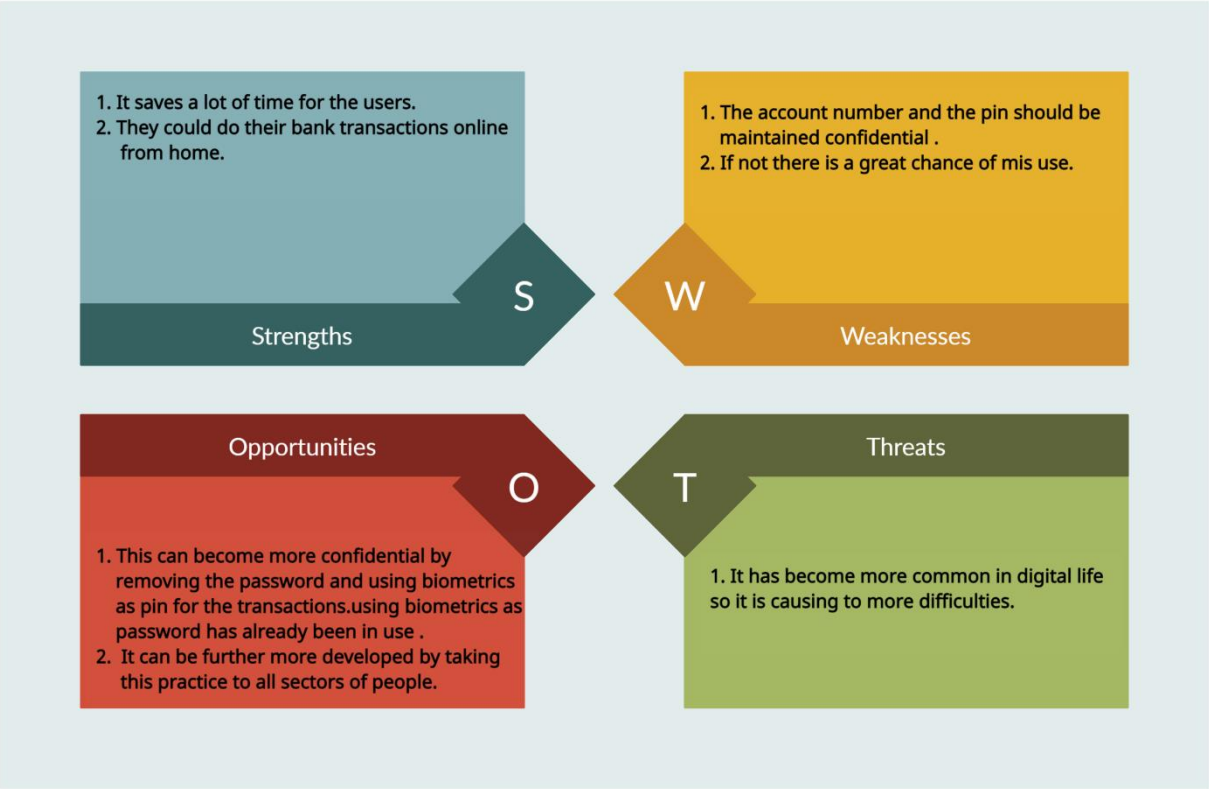
Where:

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 :-

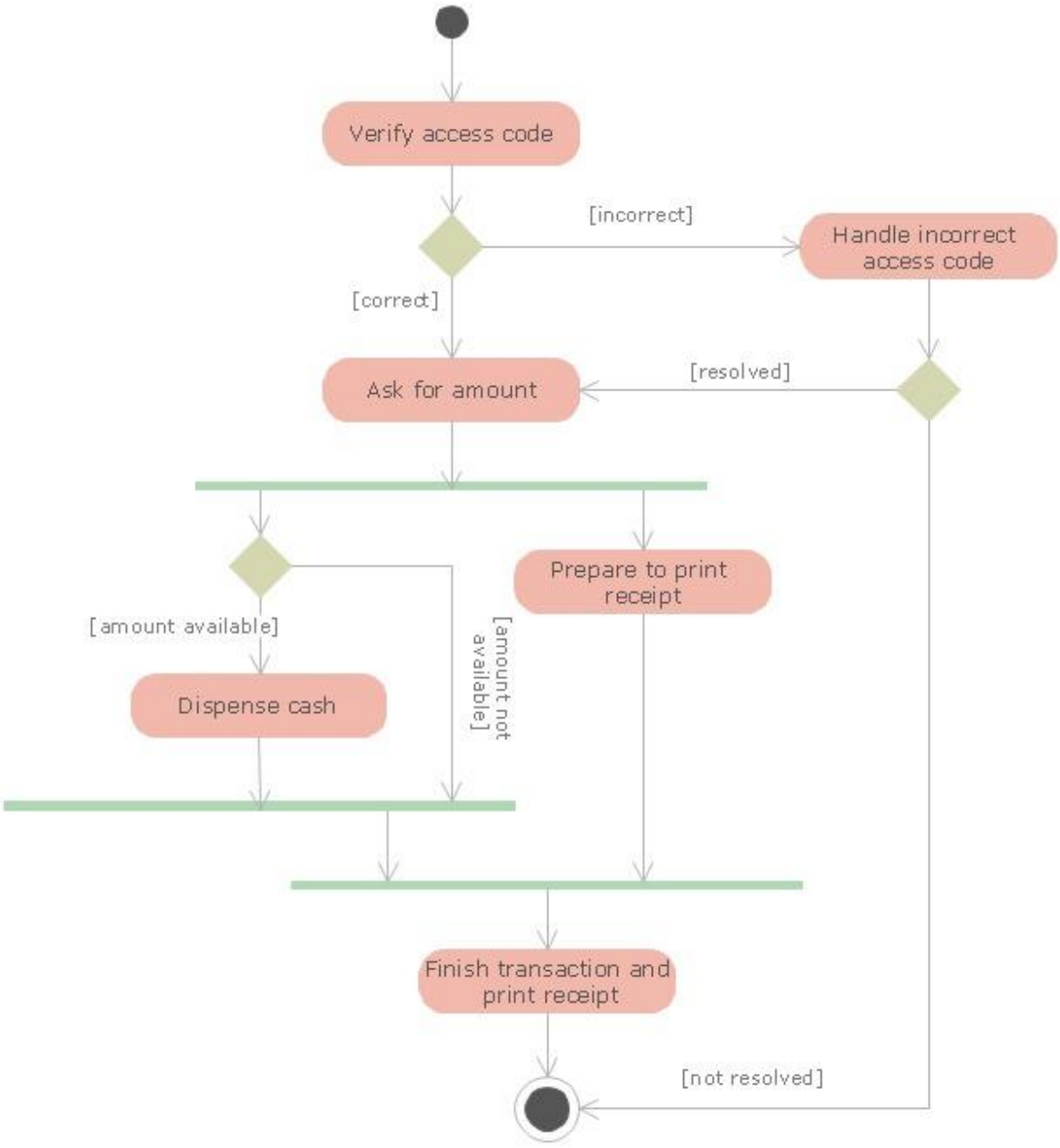
ID	DESCRIPTION	STATUS
HL1	ACCOUNT	IMPLEMENTED
HL2	CHECKINGS	IMPLEMENTED
HL3	SAVINGS	IMPLEMENTED
HL4	TRANSFERING	IMPLEMENTED
HL5	PAYING	FUTURE

LOW LEVEL REQUIREMENTS :-

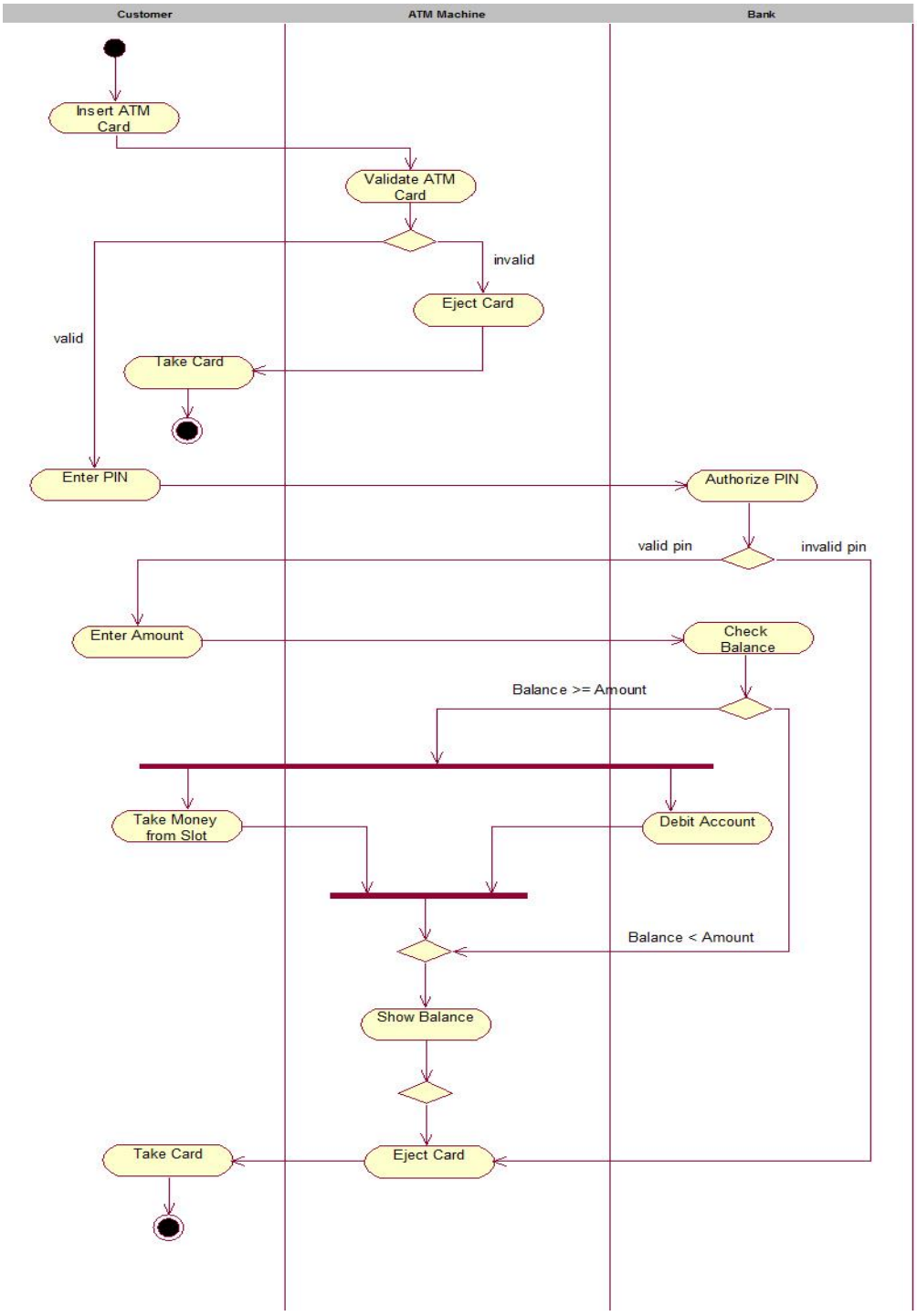
ID	DESCRIPTION	STATUS
HL1_L1	ACCOUNT TYPE	IMPLEMENTED
HL1_L2	ACCOUNT NUMBER	IMPLEMENTED
HL1_L3	PIN NUMBER	IMPLEMENTED
HL2_L1	BALANCE CHECK	IMPLEMENTED
HL2_L2	WITHDRAW	IMPLEMENTED
HL2_L3	DEPOSIT	IMPLEMENTED
HL3_L1	TRANSFER	IMPLEMENTED
HL4_L1	PAY BILLS	FUTURE
HL4_L2	PAY INTREST	FUTURE

2.DESIGN :-

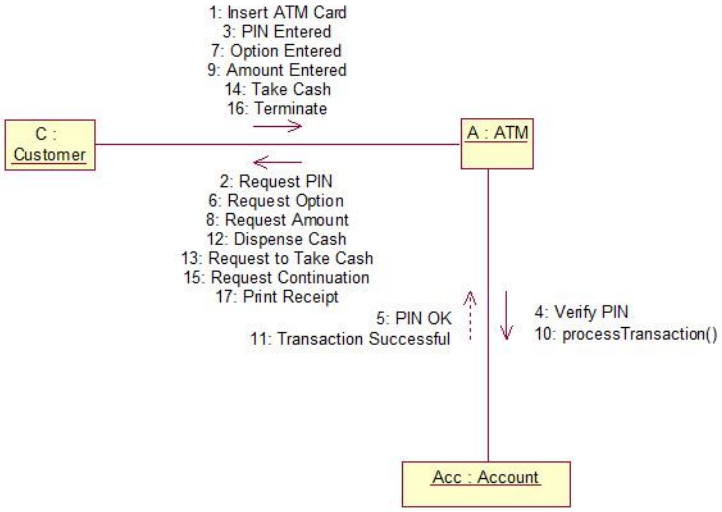
Flowchart



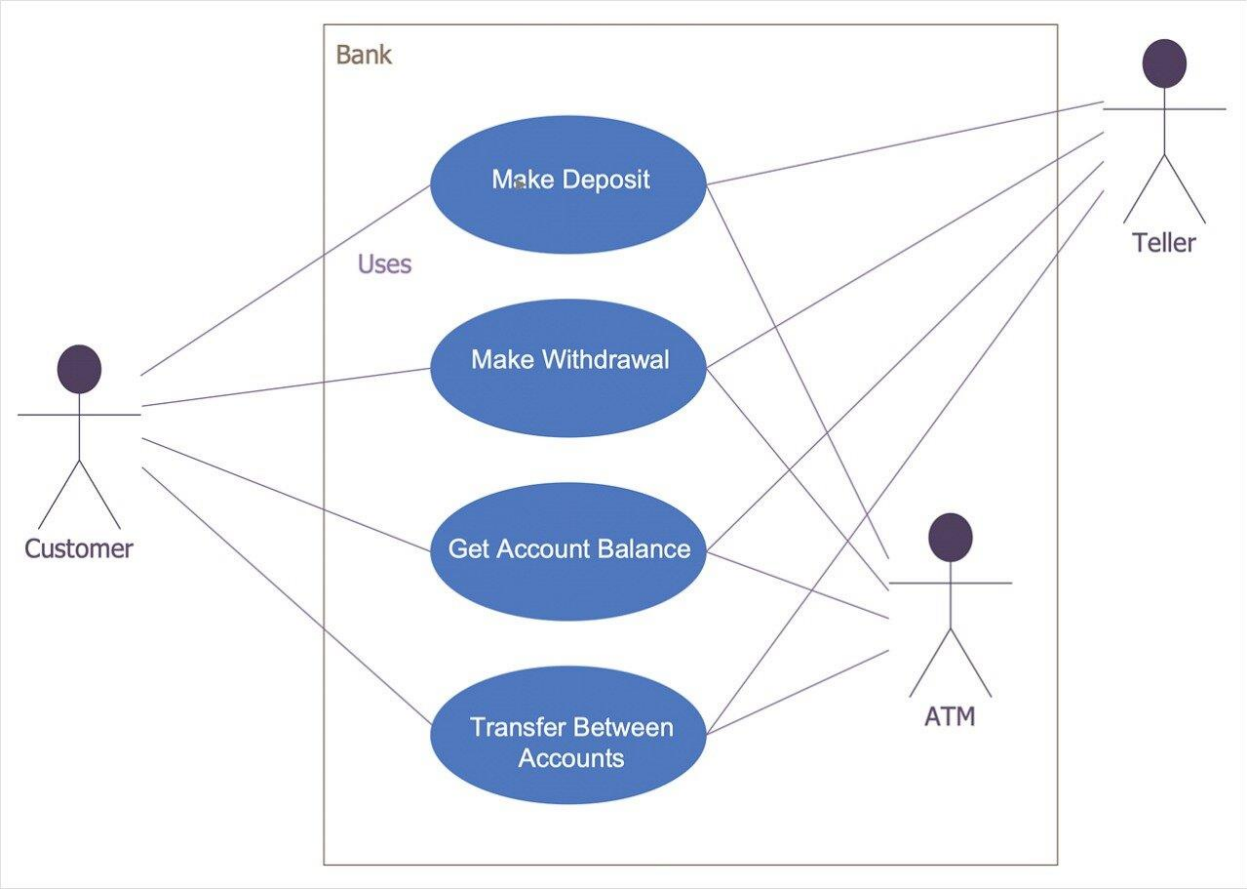
Activity Diagram



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