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ATM System UML Diagrams

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ATM Management System Project UML Diagrams

ATM MANAGEMENT SYSTEM UML DIAGRAMS – are diagrams formed by the Unified Modeling Languages that acts as the blueprint for the project development. It shows the needed diagrams based in UML to guide you in building your ATM Management System. These UML Diagrams is composed of Use Cases, Activity Diagrams, Class, Sequences and many more.

Here's how to get you started. Let us discuss why an ATM Management system should have these UML Diagrams, What are UML Diagrams, How to form them and how they actually work. In this article you will also know the bonus diagrams that will help you in understanding how the ATM Management System works. Each of these UML Diagrams comes with complete explanation to let you understand its contribution to the ATM Management system.

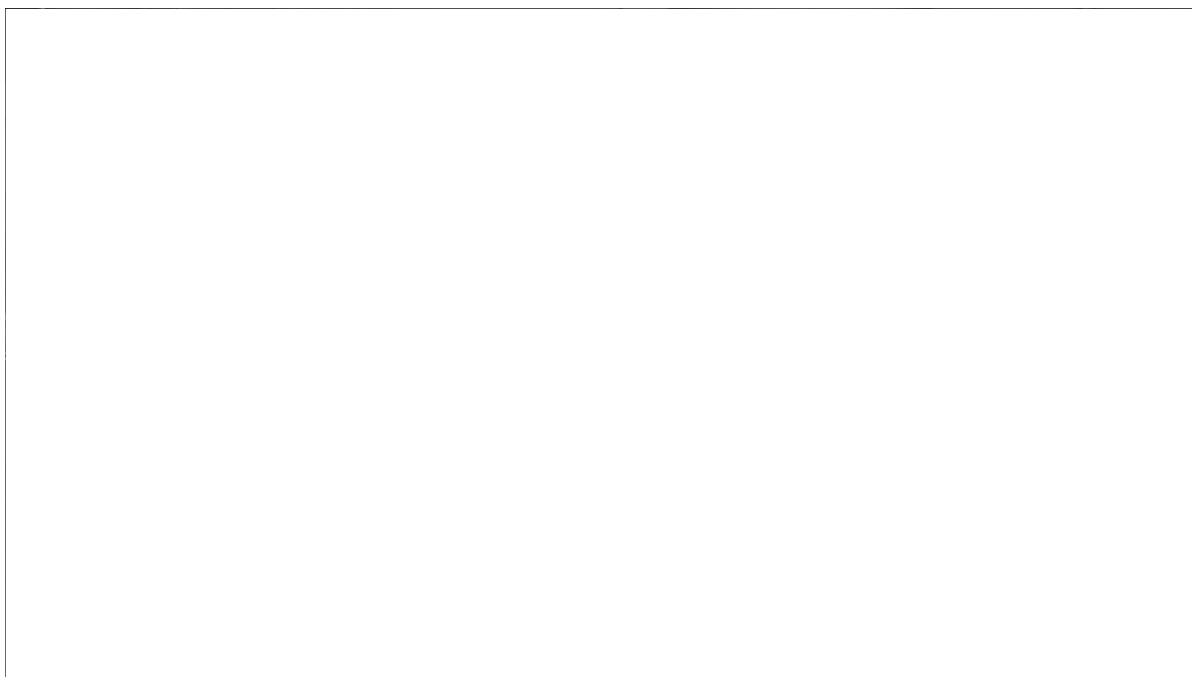
What are UML Diagrams?

UML diagrams are diagrams based on the UML (Unified Modeling Language) that is used to visually describe a system, including its major actors, roles, actions, artifacts, or classes, in order to better understand, edit, maintain, or document system information.





Software engineers use the UML modeling language to create diagrams and provide ready-to-use, expressive modeling examples to users (programmers). Some UML tools create code in a programming language. The UML Diagrams are categorized into two types: the structural diagrams and the behavioral diagrams.



Activity Diagram for Bank Management System

Is it necessary for ATM Management System to have UML Diagrams? The answer is YES. Its because the UML diagrams are the visual designs or the blueprint of the system structure and behavior. Structural diagrams helps in building the structure of ATM Management System while the behavioral diagrams in UML helps in determining its behavior towards the user, data inputs and producing an output. All of the UML diagrams works in sync and relatively to achieve a well-engineered project.

How to build an ATM Management System UML Diagrams?

The first thing that you must do before building UML Diagrams for the System is to collect as much ATM Management data as you can. You'll need to know how they manage clients' information and processing

The purpose of building the system is to provide the Bank employees and owners the easier and efficient way of doing their tasks. And in order to do that, you have to complete the needed diagrams to perfectly furnish your project. Build your project completely using UML Diagrams to help you and keep you from repeating its development.

ATM Management System Project UML Diagrams:

Time needed: 15 minutes.

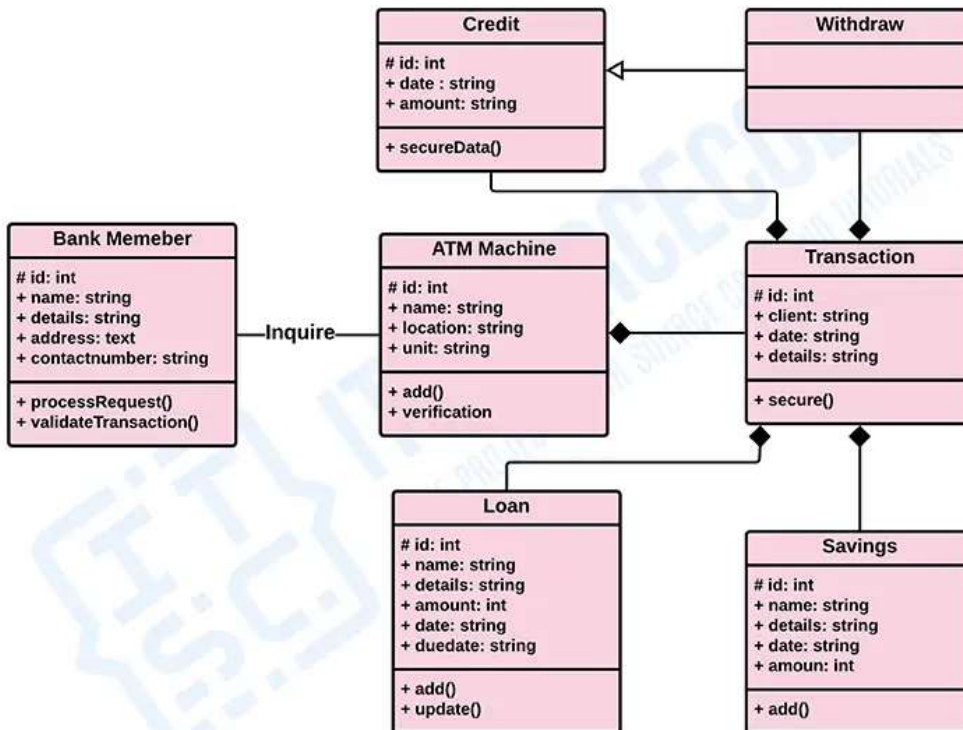
Here are the UML Diagrams that composes a ATM Management System. Each of the UML Diagrams has a major role in achieving a well-developed and functional ATM Management System.



1. ATM System Class Diagram

The Class diagram for ATM Management System shows the structures of information or data that will be handled in the system. These data or information will be represented by classes. Each of the classes will have their attributes in accord to the methods they will use. So the UML Class diagram was illustrated by a box with 3 partitions and the upper part was the name of the class, the middles are the attributes and the bottom is for the methods. The arrows on them represents their relationships in

ATM MANAGEMENT SYSTEM



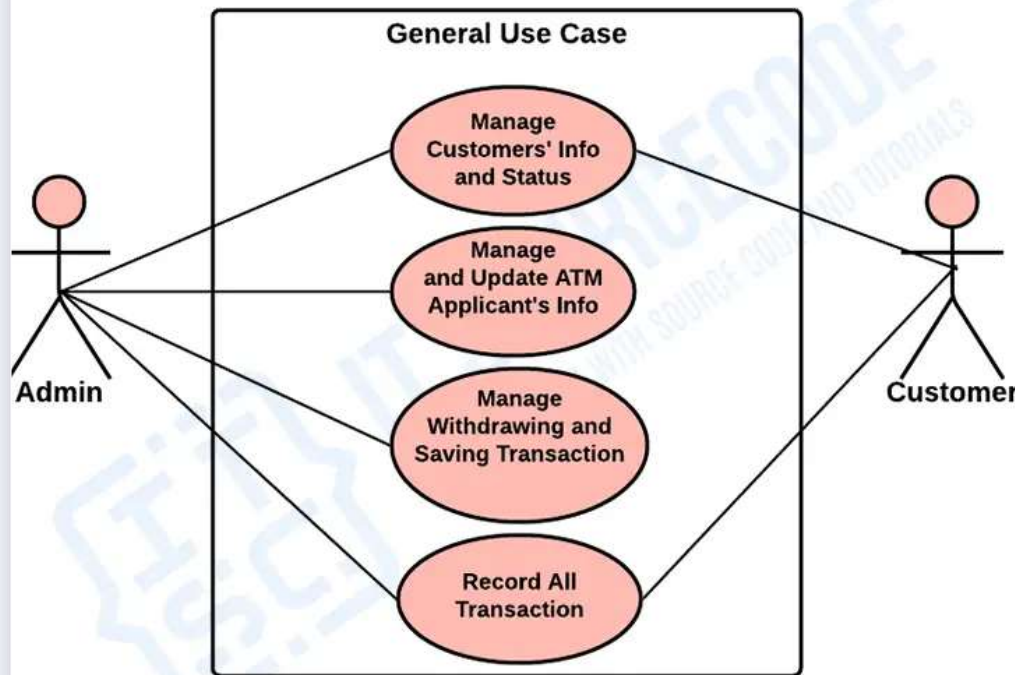
CLASS DIAGRAM

So the classes that must be made in a are the **admin**, **users**, **member registration**, and **transaction**. The mentioned classes were just general. If you want more complex or wider scope of your management system, then you can add your desired classes. You must also include the database on your Class Diagram for your system.

2. ATM System Use Case Diagram

The use cases in the diagram represents the main processes in ATM Management System. Then they will be broken down into more specific use cases depending on the included processes of the main use case. Each of these use cases explains how the system handles the actions or scenarios requested by the user.

ATM (AUTOMATED TELLER MACHINE) SYSTEM



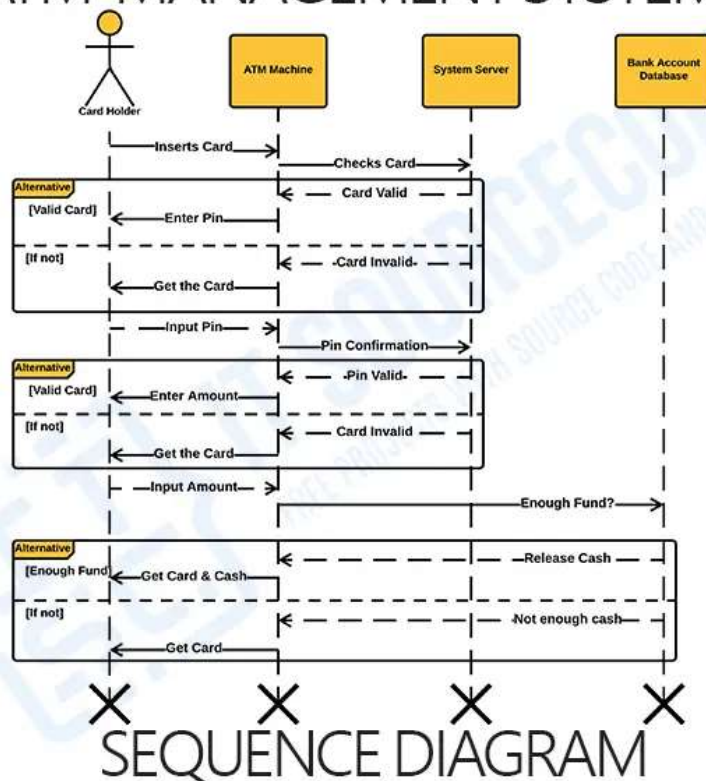
USE CASE DIAGRAM

The UML Use Case Diagram is a design used as one of the Methodology on ATM Management System development. It represents the main functions or processes of the system as well as the specific processes included. They were also labelled properly to guide programmers and users about the structure of ATM Management System.

3. ATM System Sequence Diagram

The designed sequence diagram illustrates the series of events that occurs in ATM Management System. In this illustration, the actors are represented by a stick man and the transactions or classes are represented by objects. It will give you clear explanation about the behavior of an ATM Management System in terms of processing the flow of instructions.

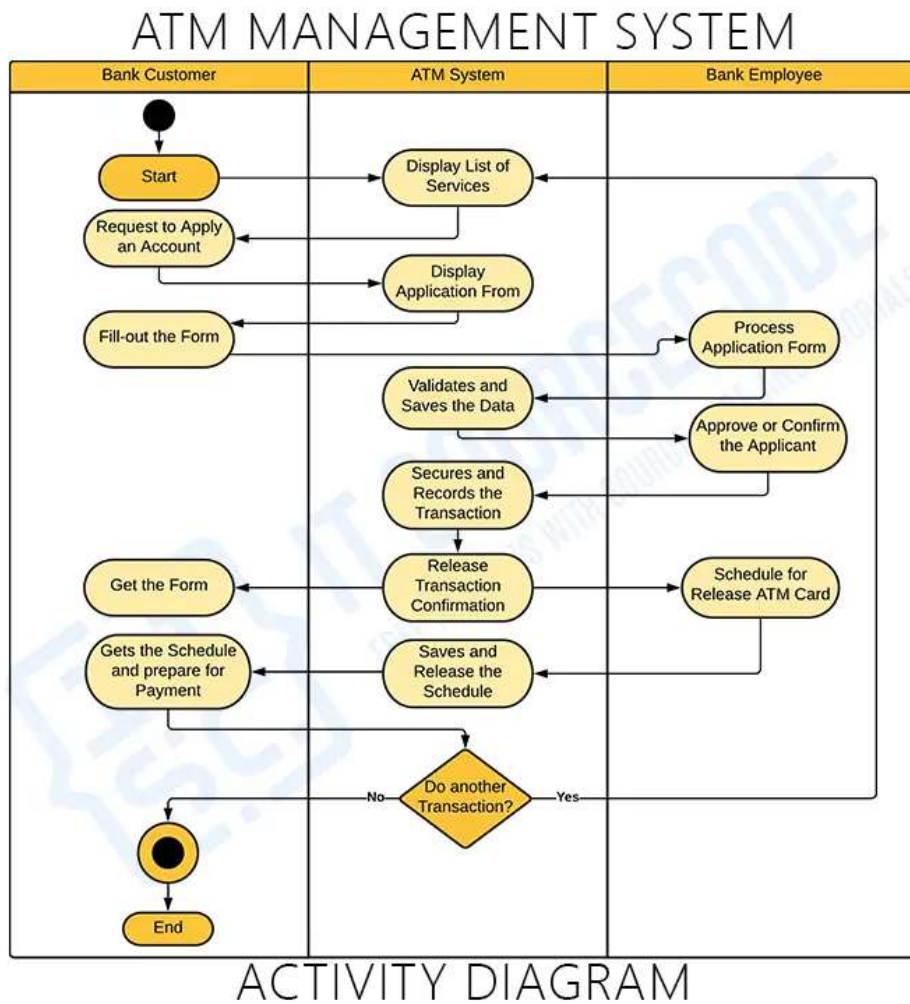
ATM MANAGEMENT SYSTEM



This designed sequence diagram is able to show programmers and readers about the sequence of messages between the actor and the objects.

4. ATM Management System Activity Diagram

Here's the UML activity diagram design of ATM Management System that you can use for your own Final year Project. The UML activity Diagram is used to show the interaction of the user and the system. By creating it, you'll be able to see the flaws of the system and you may avoid it once you apply it to the project development. So it is important to have your diagrams designed first before jumping into its development.



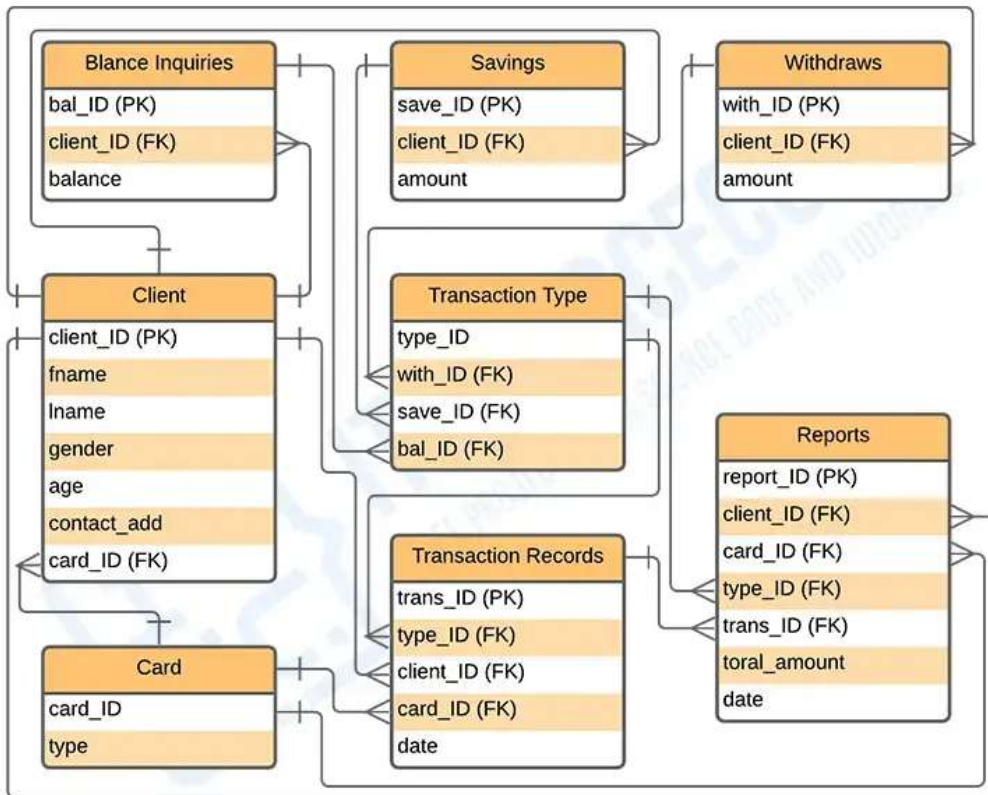
Now to create this kind of diagram, you have to determine the processes involve, the users and finalize the behavior of your proposed system.

Bonus Diagrams for ATM Management System

- [ATM Management System ER Diagram](#)

This diagram shows the design of the system's database. This design could be applied at the back end of the system development. It also serves as the design for the data storage that the system needs. It secures all the essential data in the system and preserves them for important task or when needed.

ATM MANAGEMENT SYSTEM

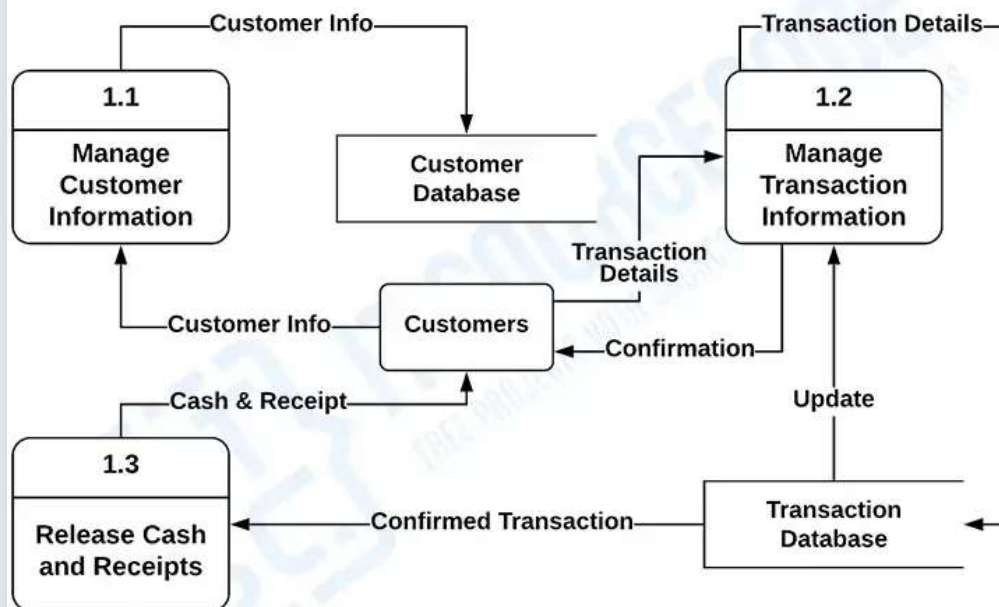


ENTITY RELATIONSHIP DIAGRAM

- [ATM System DFD Levels 0, 1 and 2](#)

As addition to the diagrams that will be a big help in doing your Project is the Dataflow Diagram. It does not belong to the UML diagrams but it also helps in knowing more about the ATM Management System. So the DFD serves as an illustration of the systems data handling. As you can see, this DFD design is in level 2, it has levels 0,1 and 2 but the most complex and wider among the 3 is the level 2. So here you will see the main processes included. You may relate these processes from your use case Diagram.

ATM MACHINE SYSTEM



DATA FLOW DIAGRAM LEVEL 2

Tips on Designing the UML Diagram of ATM Management Project System

To design your UML diagram, you may use platforms and editing tools online. These tools are helpful since they already have the needed symbols to illustrate your diagrams. You just have to plot the included symbols, arrows and labels. The platforms or online tools that you may use are:

- [Lucidchart](#)
- [Creately](#)
- [Smartdraw](#)
- [Edrawmax](#)
- [Canva](#)

As a whole, the UML Diagrams works together to achieve the most desired functions of the ATM Management System Project. All of these were designed to guide programmers and beginners about the behavior and structure of ATM Management System.

By completing all the given Diagrams, the ATM Management Project System development would be much easier and attainable. So those UML diagrams were given to teach you and guide you through your project development journey. You can use all of the given UML diagrams as your reference, or have them for your project development. The ideas presented in UML Diagrams were all based on ATM Management System requirements.

Inquiries:

Now let me ask you something. What have you learned through the discussion?



May this article help you with your projects in the future!

If you have inquiries or suggestions about **ATM Management System Complete UML Diagrams** just leave us your comments below.

Keep us updated and Good day!

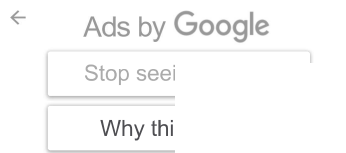
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