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Hospital Management System Project UML Diagrams

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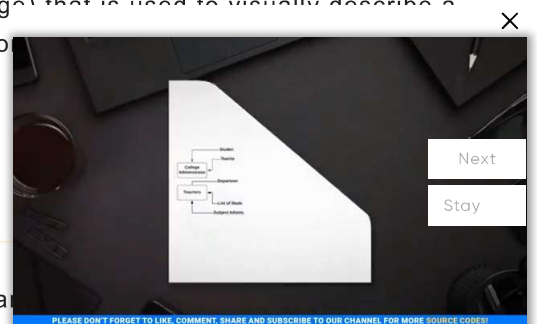
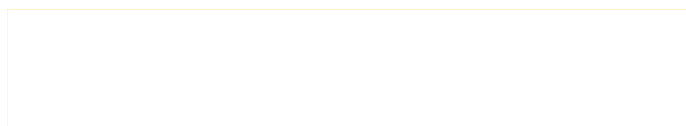
Hospital Management System Project UML Diagrams

HOSPITAL MANAGEMENT SYSTEM UML DIAGRAMS – refers to the Unified Modeling Languages that completes the project development. It shows the needed diagrams based in UML to guide you in building your project. 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 a Hospital Management system should have these UML Diagrams? What are UML Diagrams? How to form them and how they worked? In this article you will also know the bonus diagrams that will help you in understanding how the Hospital Management System works. Each of these Diagrams comes with complete explanation to let you understand its contribution to the Hospital Management system.

What are UML Diagrams?

A UML diagram is a diagram 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 maintain, or document system information.



Software engineers use the UML (Unified Modeling Language) modeling language to create UML diagrams and provide ready-to-use, expressive modeling examples to users (programmers). Some UML tools



Use Case Diagram for Hospital Management System

Is it necessary for Hospital 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 Hospital 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 the Hospital Management System UML Diagrams?

The first thing that you must do before building UML Diagrams for the System is to collect as much Hospital Management data as you can. You'll need to know how they manage hospital information, processing and patient. You must complete all the necessary information in order to provide a ,quality system for them. Then you'll apply the data gathered in designing the UML diagrams.

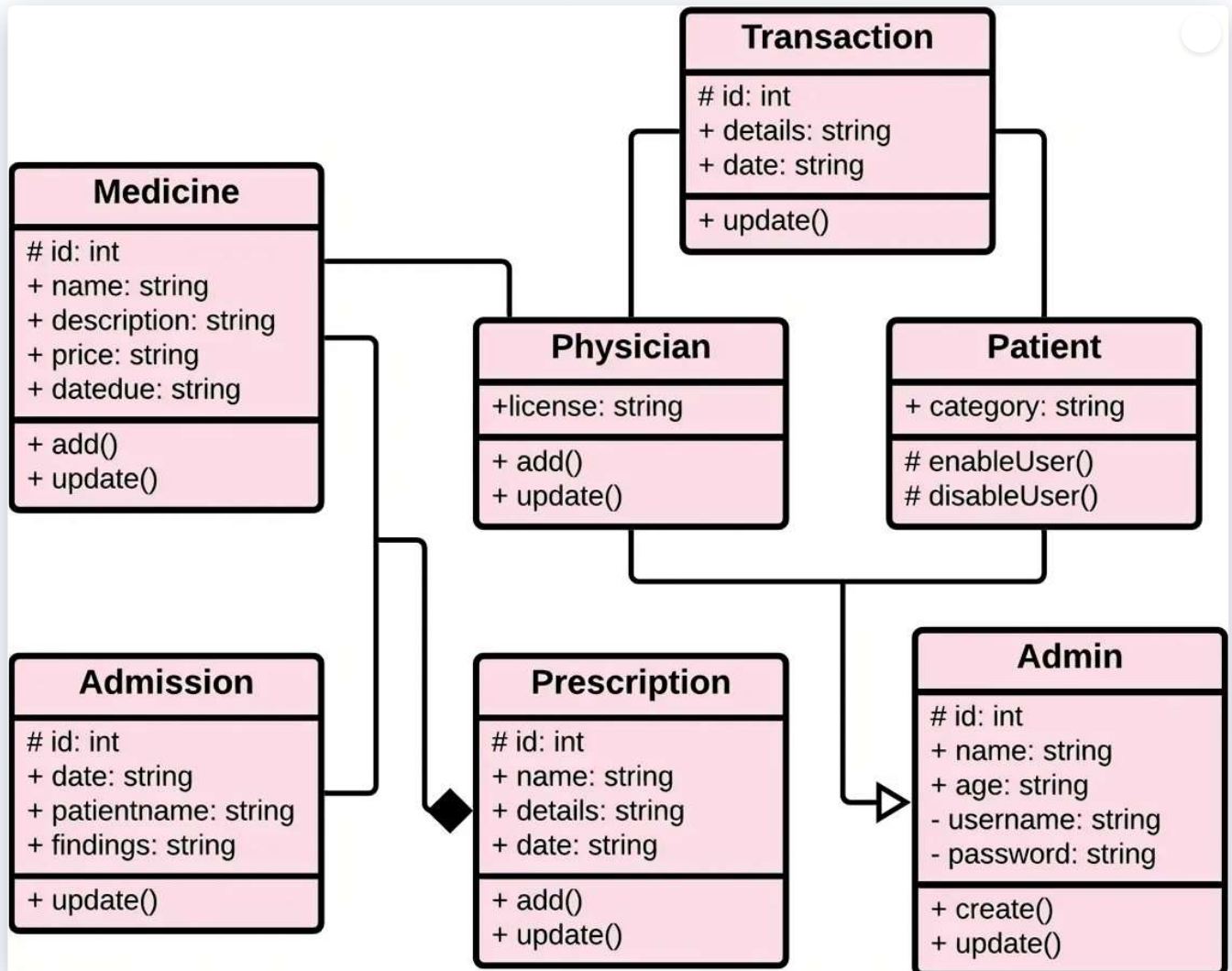
The purpose of building the system is to provide the Hospital Management their tasks. And in order to do that, you have to complete the needed diagram. Build your project completely and the UML Diagrams will help you and avoid



Hospital Management System Project UML Diagrams:

1. Hospital Management System Class Diagram | UML

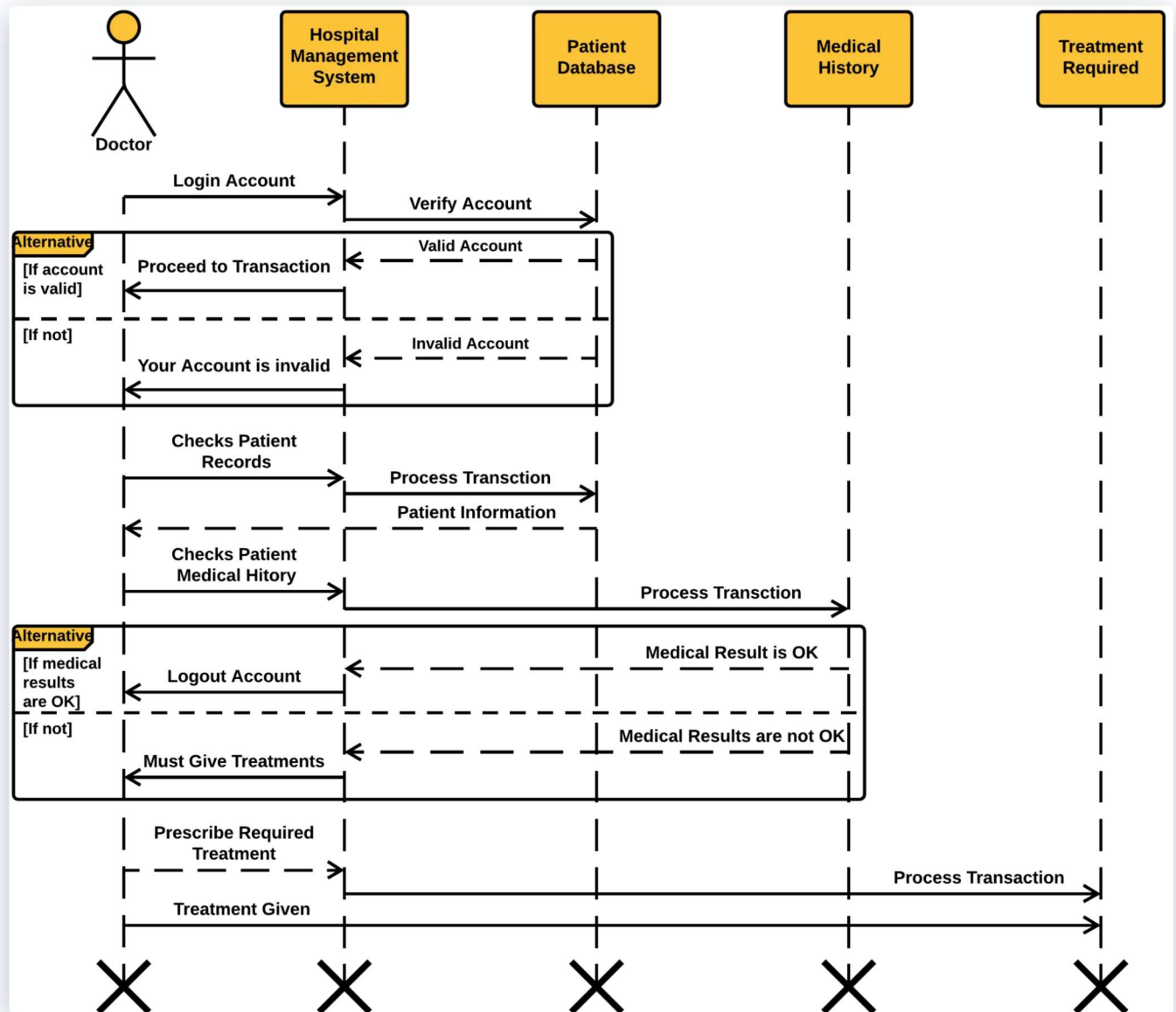
The Class diagram for Hospital Management System shows the structure of information or data that will be handled by the system. These data or information will be represented by classes. Each of the classes will have their attributes in accord to the methods they will use. So the UML Class diagram was 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 each other.



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

Next

The designed sequence diagram illustrates the series of events that occurs in Hospital Management. 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 the Hospital management System in term of processing the flow of instructions.



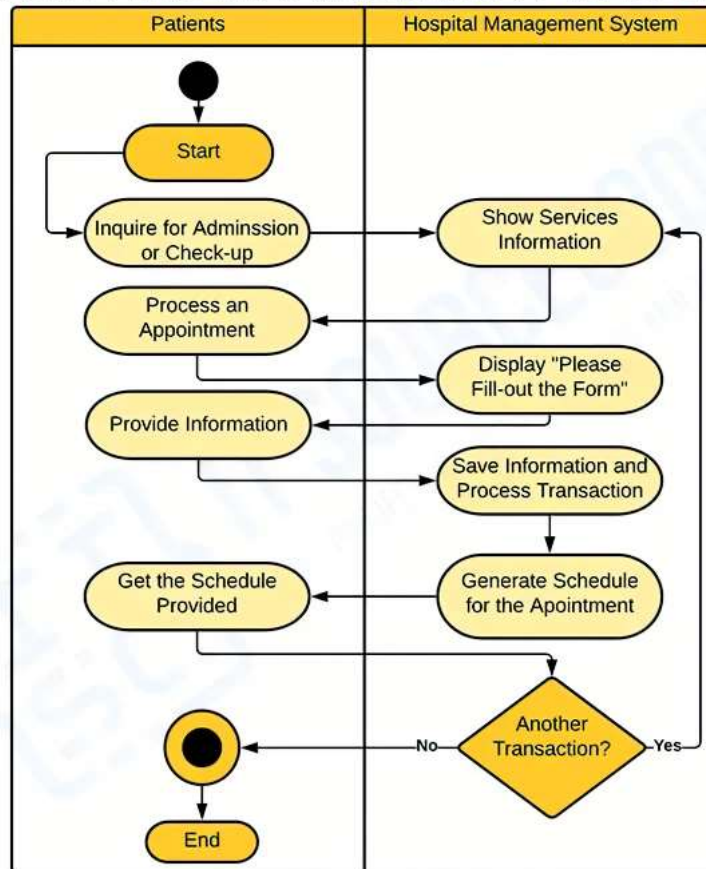
This designed sequence diagram is able to show programmers and readers about the sequence of messages between the actor and the objects.

3. Hospital Management System Activity Diagram | UML

Here's the UML activity diagram designs of Hospital Management System that you can use for your own Final year Project. The UML activity Diagram is used to show the inter-creating it, you'll be able to see the flaws of the system and you may development. So it is important to have your diagrams designed first

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ACTIVITY DIAGRAM

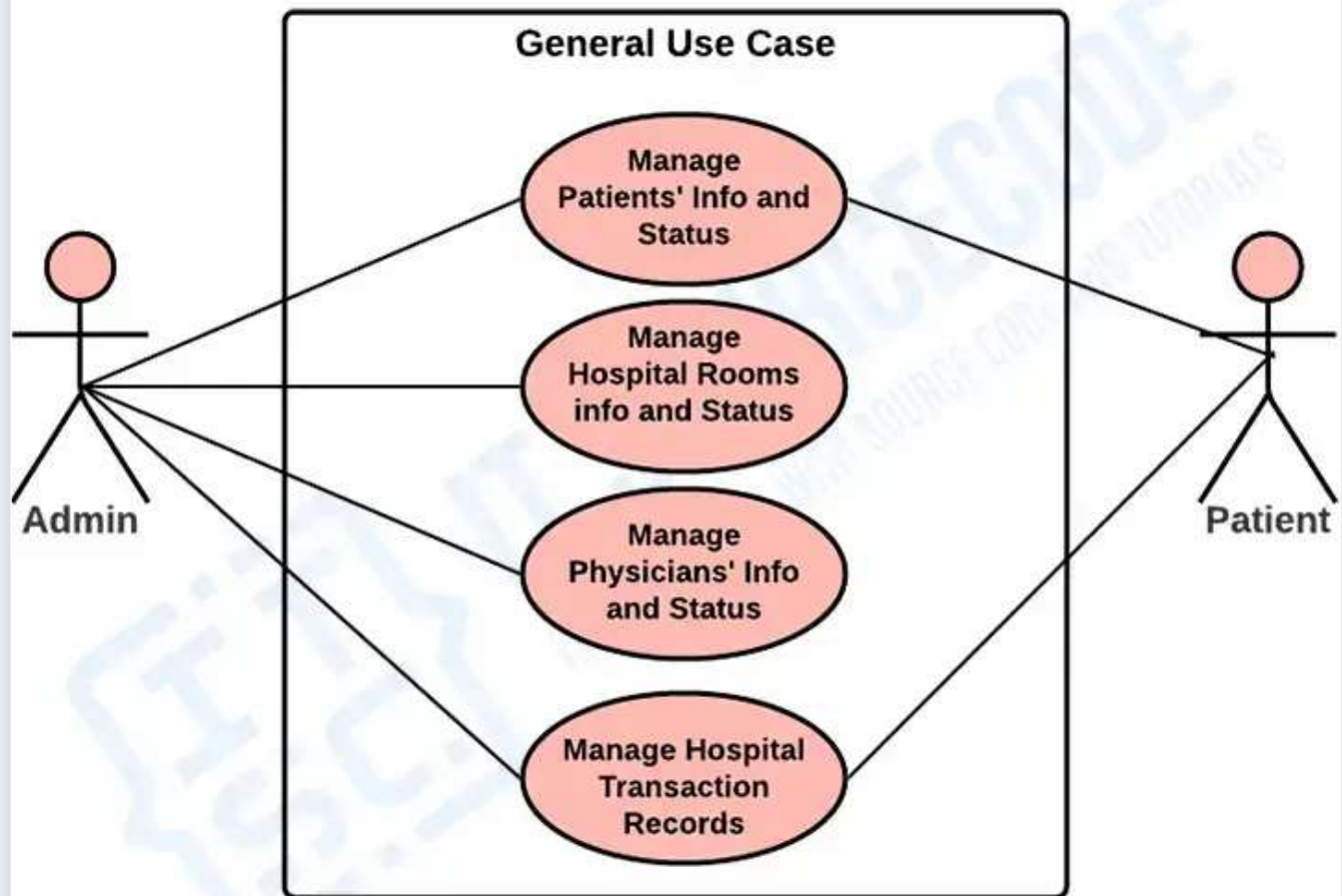
Since it is obvious in every hospital management system to have patients to be the user of it. And the designed activity diagram here shows the interaction between the software and the patient.

4. Hospital Management System Use Case Diagram

Now the use case UML diagram serves as the guide to the programmers in determining the use cases that should be included in the hospital management system. The use cases stands for the main processes in the system. Then they will be broken down into more specific processes to know all the included processes that completes the Hospital management system.

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USE CASE DIAGRAM

By creating the use case of the Hospital Management System, you will identify the overall flow of the system. After that you can relate it to the other diagrams and complete all of the system function.

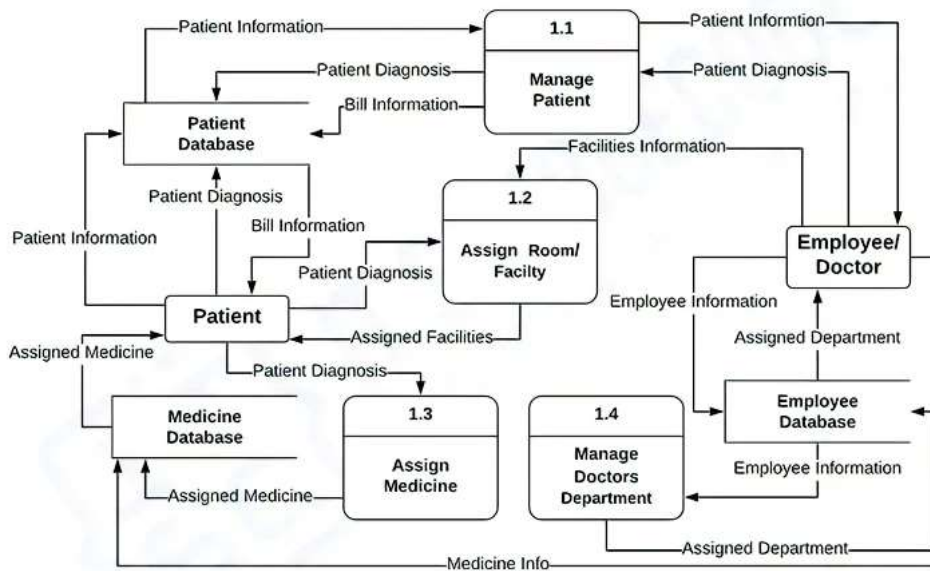
Bonus Diagrams for Hospital Management System:

- [Hospital Management System DFD Level 0, 1 and 2](#)

As addition to the diagrams that will be a big help in doing your Project. UML diagrams belong to the UML diagrams but it also helps in knowing more about the system. The DFD serves as an illustration of the systems data handling. As you know, the DFD has levels 0,1 and 2 but the most complex and wider among the levels is level 2. You may relate these processes form y

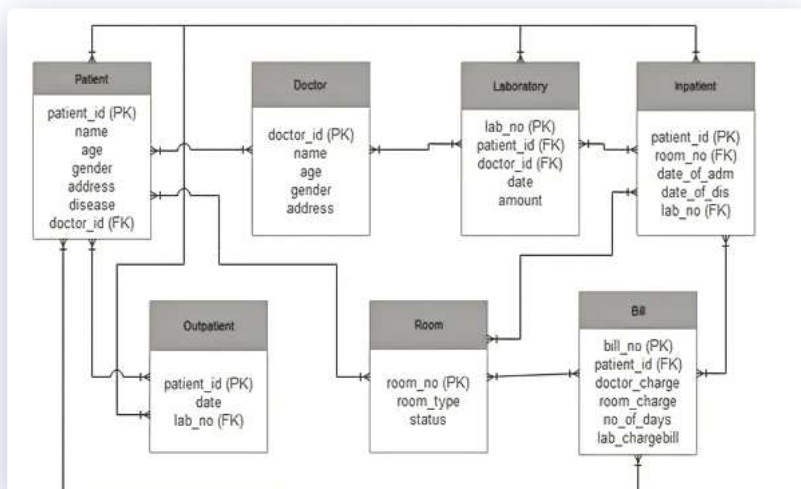
Then you can also see the actors, or external entities which will be the users of the system. You can also see the database which will be the storage of the data inputs in the system. They will also serve as the

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- [Hospital Management System Database Design](#)

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 of the data storage that the system needs. It secures all the essential data in the system and preserves them for important tasks or when needed.



Tips on Designing the UML Diagram of Hospital Management

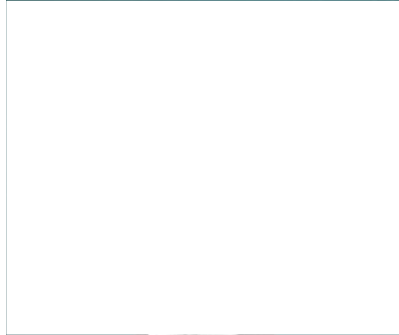
To design your UML diagram, you may use platforms and editing tools online that already have the needed symbols to illustrate your diagrams. You just have to use them and labels. The platforms or online tools that you may use are:

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- [Edrawmax](#)
- [Canva](#)

Conclusion:

All in all, the UML Diagrams works together to achieve the most desired functions of a Hospital Management Project System. All of these were designed to guide programmers and beginners of what should be the behavior and structure of the Hospital Management System.



By completing all the given Diagrams, the Hospital 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 f the given UML diagrams as you reference or have them for your project development. The ideas presented in UML Diagrams were all based on Hospital Management System requirements.

Inquiries:

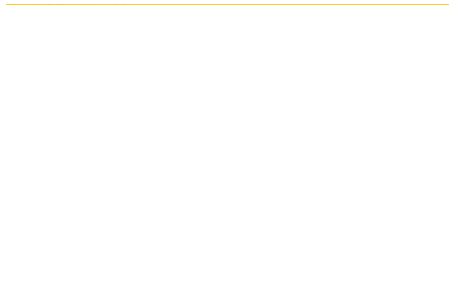
Now let me ask you something. What have you learned through the discussion?

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

If you have inquiries or suggestions about **Hospital Management System** your comments below.



Keep us updated and Good day!



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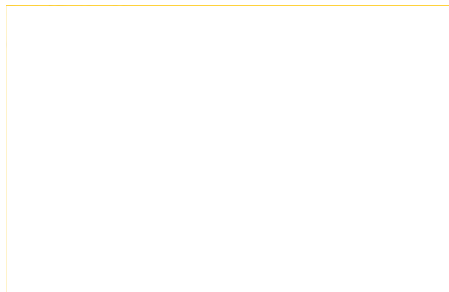
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Alvin Marcelo

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