

Online Railway Reservation System UML Diagrams

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Online Railway Reservation System Project UML Diagrams

ONLINE RAILWAY RESERVATION 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 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 an online Railway Reservation 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 online Railway Reservation System works. Each of these Diagrams comes with complete explanation to let you understand its contribution to the Online Railway Reservation 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 better understand, edit, maintain, or document system information.

Software engineers use the UML (Unified Modeling Language) modeling language. UML can be used 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.



Use Case Diagram for Railway Reservation System

Is it necessary for Online Railway Reservation 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 Online Railway Reservation 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 Online Railway Reservation System UML Diagrams?

The first thing that you must do before building UML Diagrams for the System is to collect as much Railway Reservation data as you can. You'll need to know how they manage Railway information, processing reservation and distribution of tickets. 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.

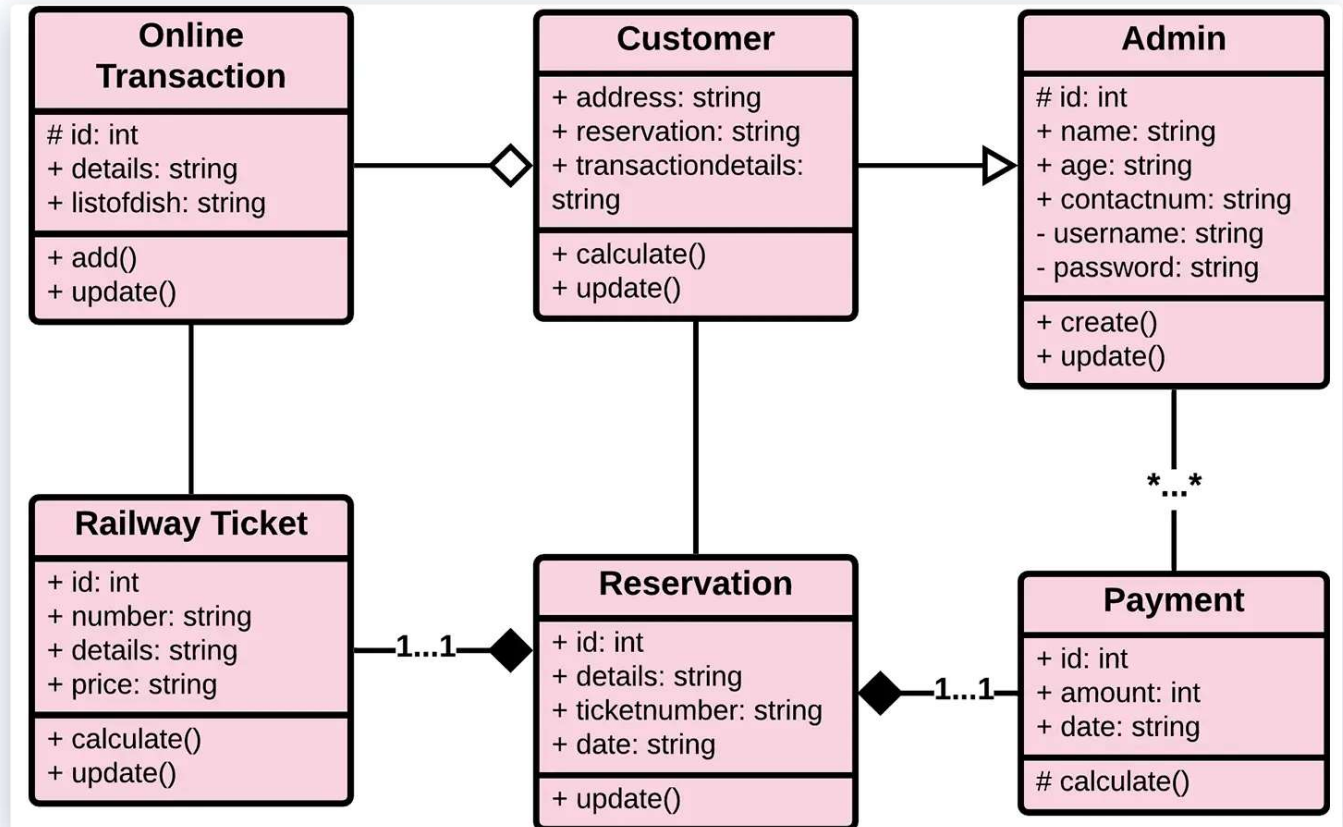
The purpose of building the system is to provide the Railway Admins the easier and efficient way of doing their tasks. And in order to do that, you have to complete the needed diagrams to perfectly furnish your project. Build your project completely and the UML Diagrams will help you and keep you from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

Railway Reservation System Project UML Diagrams:

Here are the UML Diagrams that composes an Online Railway Reservation System. Each of the UML Diagrams has a major role in achieving a well-developed and functioning Railway Reservation System.

1. Online Railway Reservation System Class Diagram

The Class diagram for Online Railway Reservation 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.

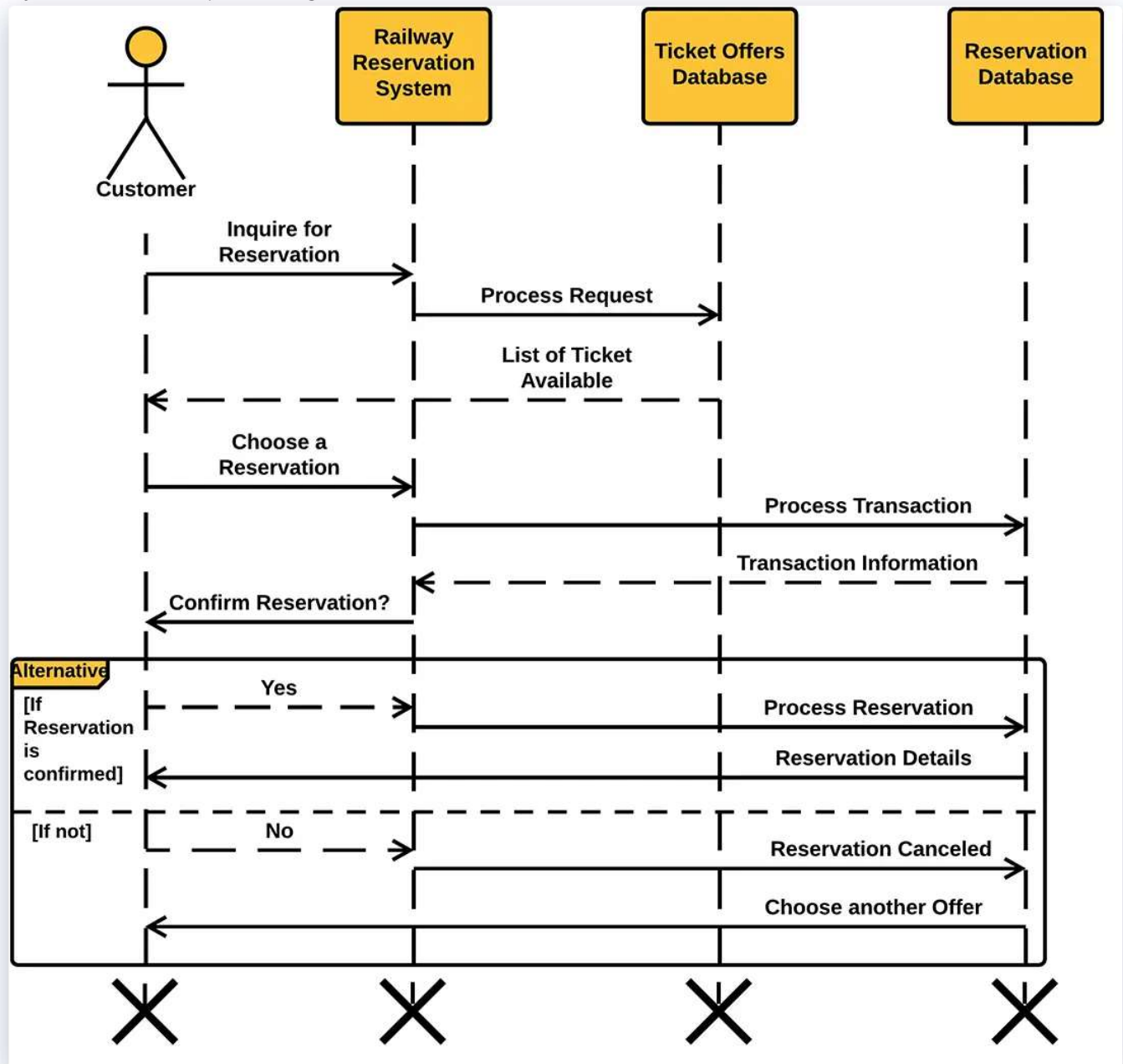


So the classes included in Online Railway Reservation are the **reservations**, **users**, **customers**, **ticket**, **payment** and **transaction**. The mentioned classes were just general. If you want more complex or wider scope of your Railway Reservation system, then you can add your desired classes.

2. Railway Reservation System Sequence Diagram | UML

The designed sequence diagram illustrates the series of events that occurs in Railway Reservation 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 the Railway Reservation

System in terms of processing the flow of instructions.

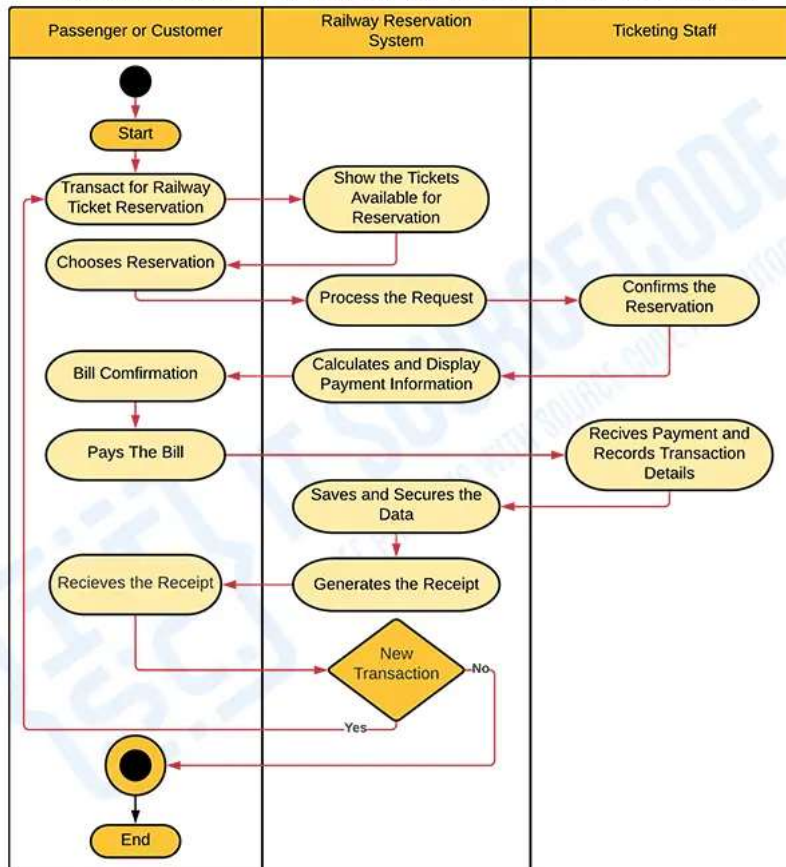


This designed sequence diagram is able to show programmers and readers about the sequence of messages between the actor and the objects.

3. [Railway Reservation System Activity Diagram | UML](#)

Here's the UML activity diagram designs of Online Railway Reservation 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.

RAILWAY RESERVATION SYSTEM



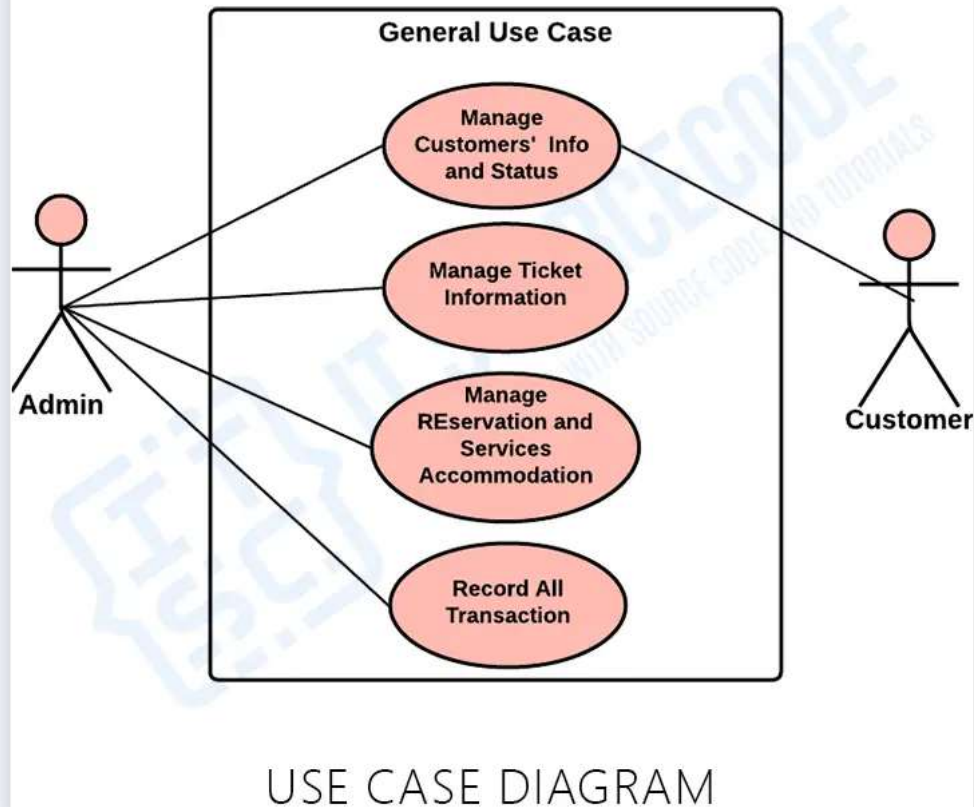
ACTIVITY DIAGRAM

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

4. Railway Reservation 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 Online Railway Reservation 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 railway reservation system.

RAILWAY RESERVATION SYSTEM



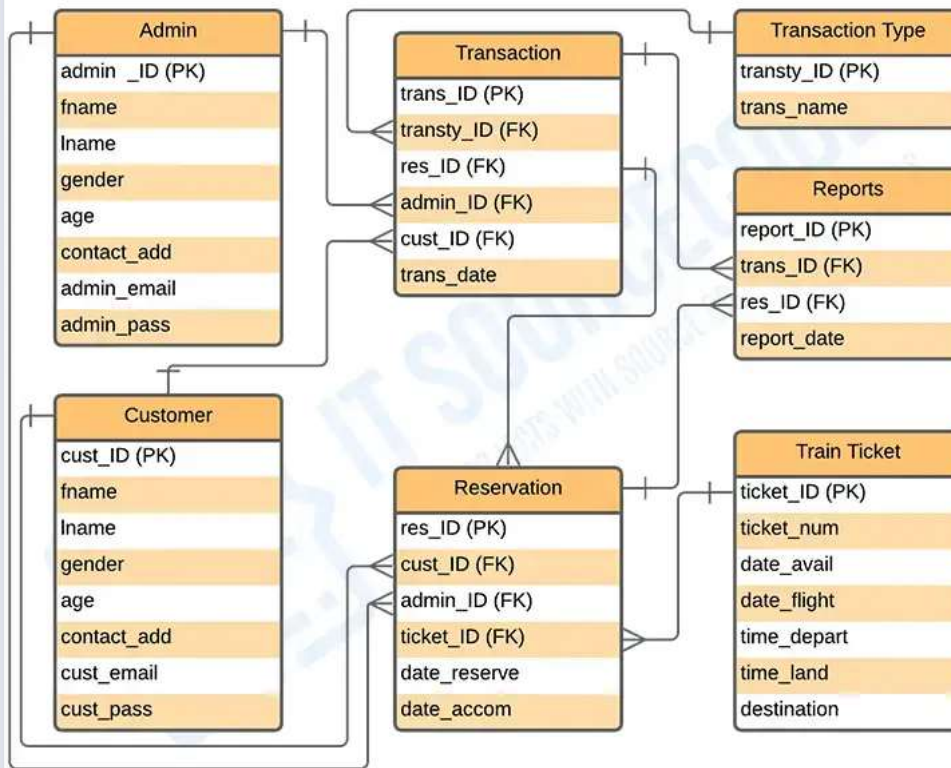
By creating the use case of the Online Railway Reservation System, you will identify the overall flow of the system. After that you can relate it to the other diagrams and complete all of the system function.

Another UML Diagrams for Online Railway Reservation System:

- [Railway 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 of 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.

RAILWAY MANAGEMENT SYSTEM

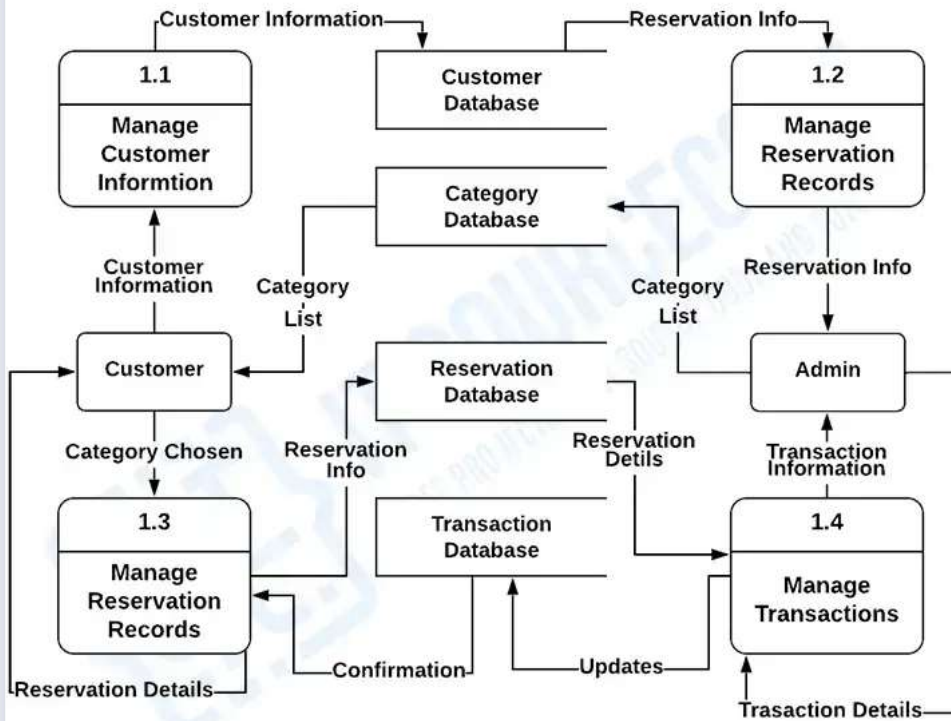


ENTITY RELATIONSHIP DIAGRAM

- [Railway Reservation 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 Railway Reservation 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 form you use case Diagram.

RAILWAY RESERVATION SYSTEM



DATA FLOW DIAGRAM LEVEL 2

Then you can also see the actors, or external entities which will be the users of the system. You will also see the database which will be the storage of the data inputs in the system. They will also serve as the source of the outputs from the system. While the arrows with labels are the the data that flows throughout the system. They serve as the inputs and the outputs produce by the system. So the DFD can serve as a behavioral and behavioral diagram at the same time.


Tips on Designing the UML Diagram of Online Railway Reservation 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](#)

Conclusion:

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

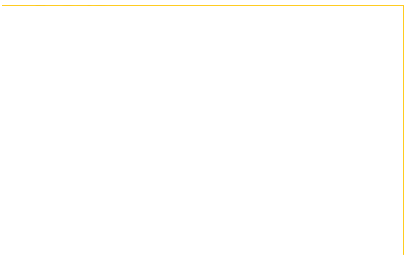


By completing all the given Diagrams, the Railway Reservation Project System development would be much easier and attainable. So those UML diagrams were given to teach you and guide you through your project development journey. You can use all f the given UML diagrams as you reference or have them for your project development. The ideas presented in UML Diagrams were all based on Railway Reservation 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 Online **Railway Reservation System Complete UML Diagrams** just leave us your comments below.



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