**Q6) What is Use case diagram? Create a use-case diagram on bill payment on paytm.**

**Ans:-** A use case diagram is used to represent the dynamic behavior of a system. It encapsulates the system's functionality by incorporating use cases, actors, and their relationships. It models the tasks, services, and functions required by a system/subsystem of an application. It depicts the high-level functionality of a system and also tells how the user handles a system.

Following are the purposes of a use case diagram given below:

1. It gathers the system's needs.
2. It depicts the external view of the system.
3. It recognizes the internal as well as external factors that influence the system.
4. It represents the interaction between the actors.

Rules for draw a Use-case Diagram:-

1. A pertinent and meaningful name should be assigned to the actor or a use case of a system.
2. The communication of an actor with a use case must be defined in an understandable way.
3. Specified notations to be used as and when required.
4. The most significant interactions should be represented among the multiple no of interactions between the use case and actors.

Now take an example for payment on paytm website for recharge :

C:\Users\USER\Desktop\user.png C:\Users\USER\Desktop\user.png C:\Users\USER\Desktop\user.png

Visitor User Direct User

Recharge

Transaction Gateway

C:\Users\USER\Desktop\user.png

Track Complaints

Service provider

Send Transaction Report

C:\Users\USER\Desktop\user.png C:\Users\USER\Desktop\user.png

Registerd User third party system administrator