

NAME :- KRUNAL RANK

ROLL No :- U18C0081

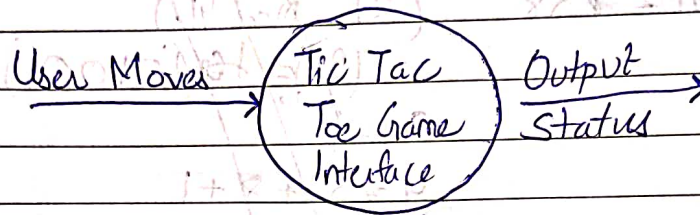
CLASS :- BTECH 4<sup>TH</sup> YEAR

SEMESTER :- 7

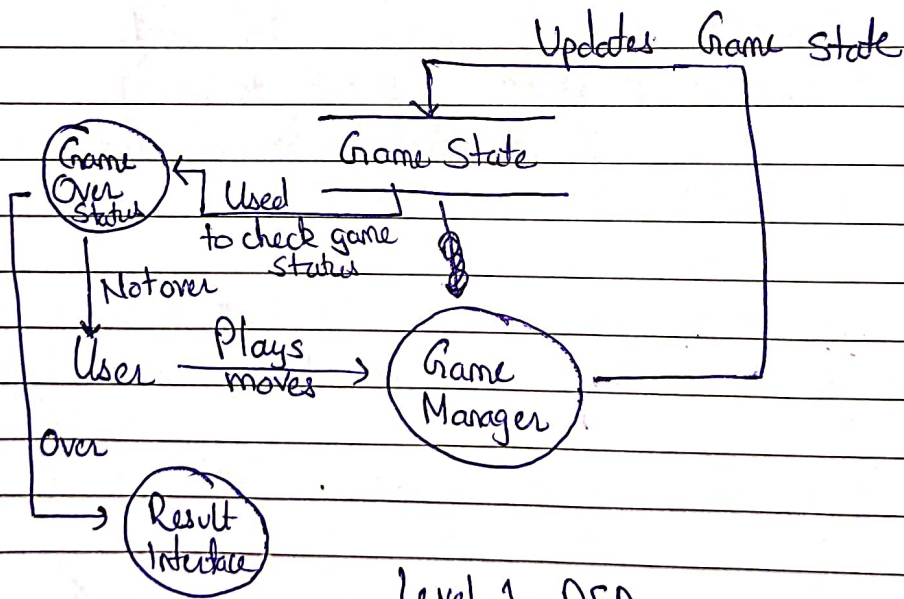
DIVISION :- B

# Software Engineering Tutorial 8

Ans 1:



Level 0 DFD



Level 1 DFD



Ans 2:

Sequence DiagramUse Case Diagram

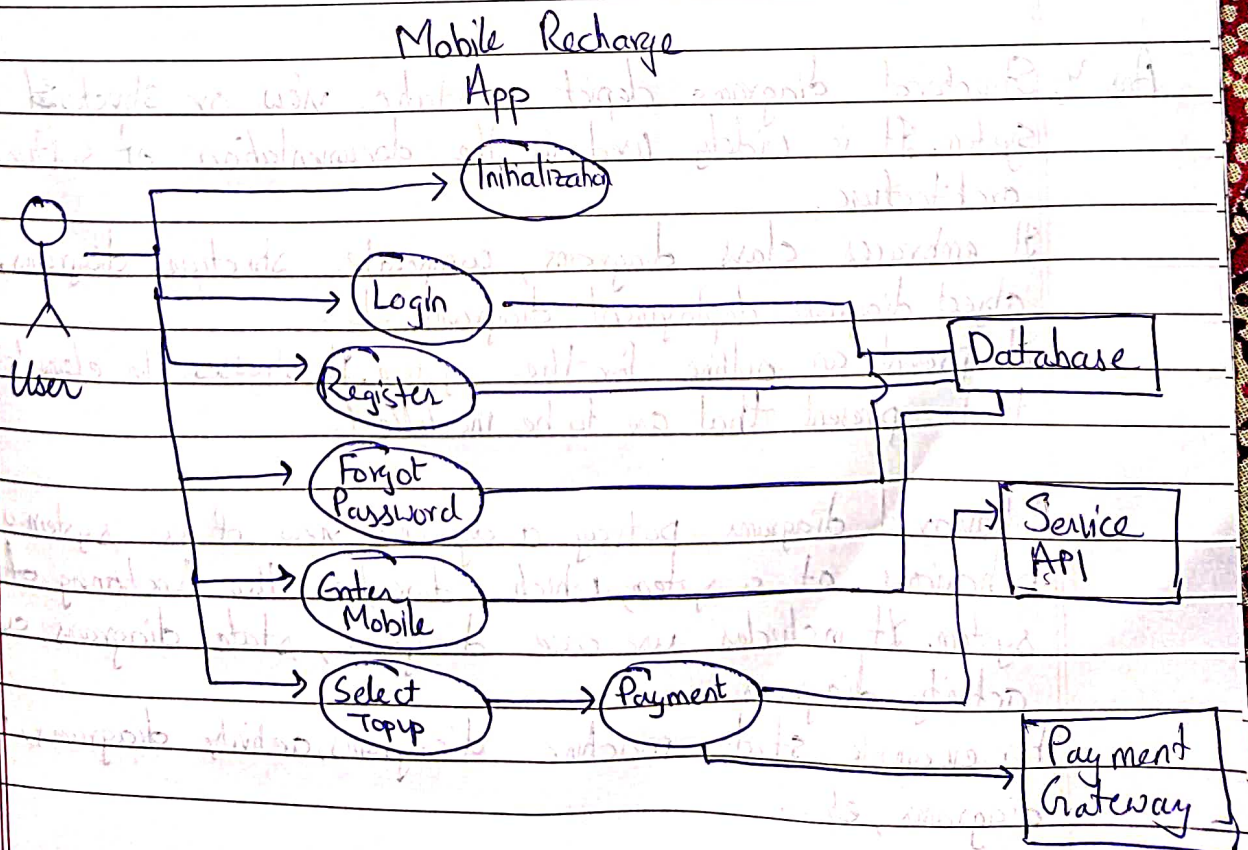
A use case diagram shows how use cases and actors relate to each other and gives a functional system overview.

Use cases boil the system down to their added values and do not show how these are achieved.

Any scenario of a use case diagram is graphically represented in an activity diagram where the single step occurs as actions.

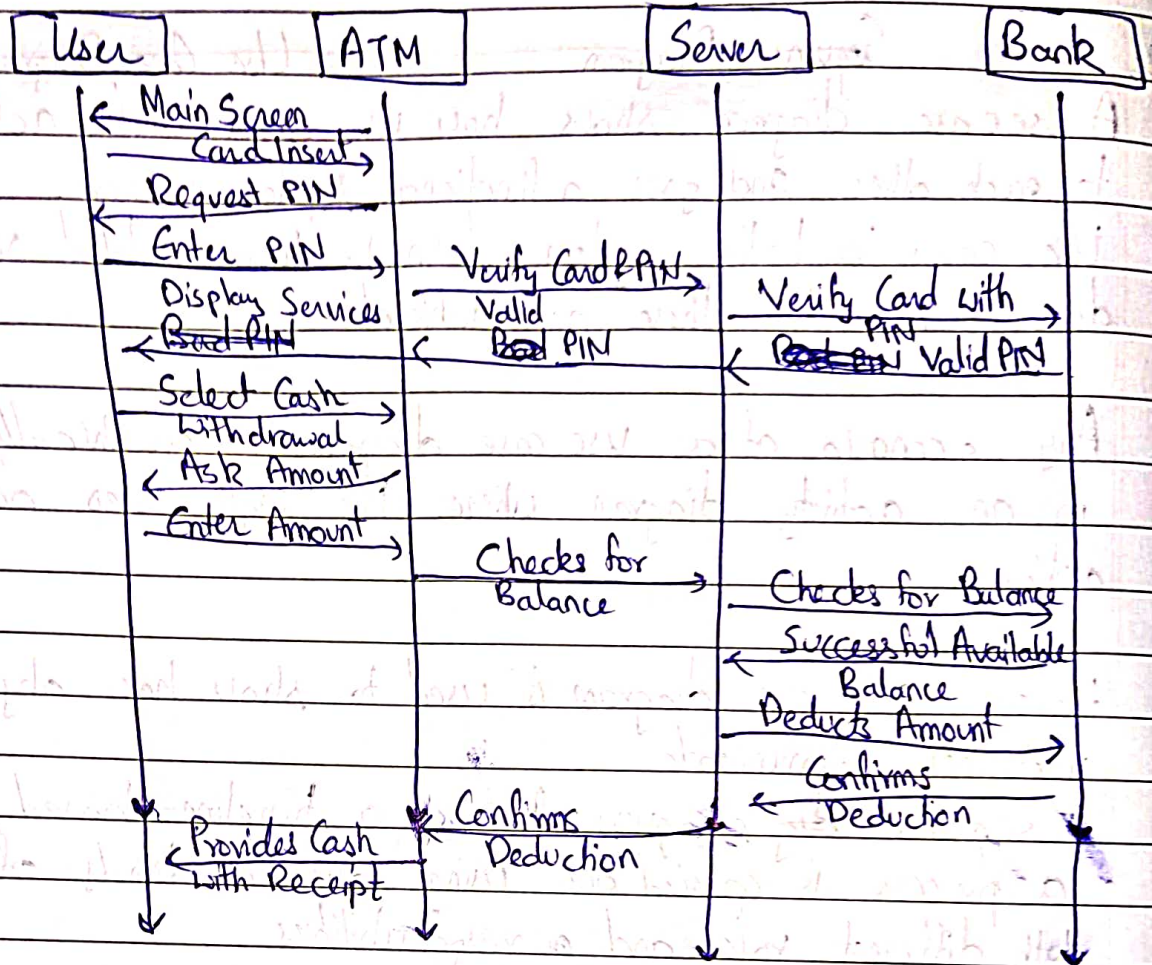
However, a sequence diagram is used to show how objects and interfaces communicate.

A sequence diagram follows a timeline based on which a process is carried out using different kinds of objects with different roles and responsibilities.





Ans 3:



Ans 4: Structural diagrams depict a static view or structured of a system. It is widely used in the documentation of software architecture.

It embraces class diagrams, composite structure diagrams, object diagrams, deployment diagrams, etc.

It presents an outline for the system. It stresses the elements to be present that are to be modelled.

Behavioral diagrams portray a dynamic view of a system or the behaviour of a system, which describes the functioning of a system. It includes use case diagrams, state diagrams, and activity diagrams.

For example, state machine diagrams, activity diagrams, use case diagrams, etc.