# OOAD LAB TASK

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# Q1:

**ACTORS:**

Actors are those who interact with the Systems.

**USE CASES:**

Actors interact with the Systems ,and that functional unit of system become a Use Case.

**SCENARIO:**

In a scenario there are single or multiple actors which have to perform different functionalities to perform in a system to solve the given problem.

# Q2:

**USE CASES:**

Use Case tells the text story and describe the functional requirements of a system.

**USE CASE MODEL/USE CASE DIAGRAM:**

Use case diagram model the functionalities with the help of actors and use cases. Its a behavioral diagram of use cases.

# Q3:

**WHY WE USE ‘USE CASES’:**

Use Case describes the functional requirements of a system in order to achieve high level goals.

# Q4:

**DIFFERENCE BETWEEN FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS:**

FUNCTIONAL REQUIREMENTS:

These tell what needs to be done in a system or what a system should do.

NON-FUNCTIONAL REQUIREMENTS:

These tell the performance attribute of a system. It gives the implementation of the how the system will do or perform something.

# Q6:

**KIND OF ACTORS:**

1. Primary actor.
2. Secondary actor.
3. Offstage actor.

# Q7:

**USE CASE FORMATS:**

1. Brief use-case.
2. Casual use-case.
3. Fully dressed use-case.

# Q8:

**BRIEF USE CASE:**

User is allowed to withdraw money from ATM after entering the pin and inserting card. After verification of user and card the user’s request is processed by the system.

**CASUAL CASE:**

User is allowed to withdraw money from ATM after entering the pin and inserting card. After verification of user and card the user’s request is processed by the system.

ALTERNATE SCENARIOS:

1. If user pin is not verified the card will be ejected.
2. Error is displayed if pin is incorrect.
3. Request of withdrawal will be rejected if there is less balance in accout.

**FULLY DRESSED USE**

NAME:

Withdrawal of money from ATM.

DESCRIPTION:

User is allowed to withdraw money from ATM after entering the pin and inserting card. After verification of user and card the user’s request is processed by the system.

ACTOR:

Bank Customer/User.

STAKE HOLDER:

ATM/Bank.

PRE-CONDITIONS:

1. Valid card/ unexpired card.
2. Active ATM machine.

POST CONDITIONS:

Customer is served according to he request i.e: Money is withdrawn.

FLOW OF EVENTS:

1. Insert card
2. Enter user PIN.
3. Verifies Card
4. Display the services.
5. User chooses the service i.e: choose withdraw request.
6. Enter the Amount to withdraw.
7. Check balance
8. Transact money
9. Eject card.

ALTERNATE SCENARIOS:

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# Q9:

Use Case Testing is a functional black box testing technique that helps testers to identify test scenarios that exercise the whole system on each transaction basis from start to finish.

# Q10:

1. Choose the boundaries of a system.
2. Identify the actors and their types.
3. Identify the primary actors and their user goals.
4. Identify the goals to be achieved by each primary actor.
5. Identify the user that satisfies those goals.

# Q11:

1. EBP Test (Elementary Business Process test).
2. Boss Test
3. Size Test.