

Practical No: 1

AIM: Use testing tool such as J-Meter, Canoo Web Test

Problem:

J-Meter can be used for purpose of load testing and stress testing.

Procedure:

In this test, application is tested for Normal load and heavy load by adding number of users.

Step 1: Add Users

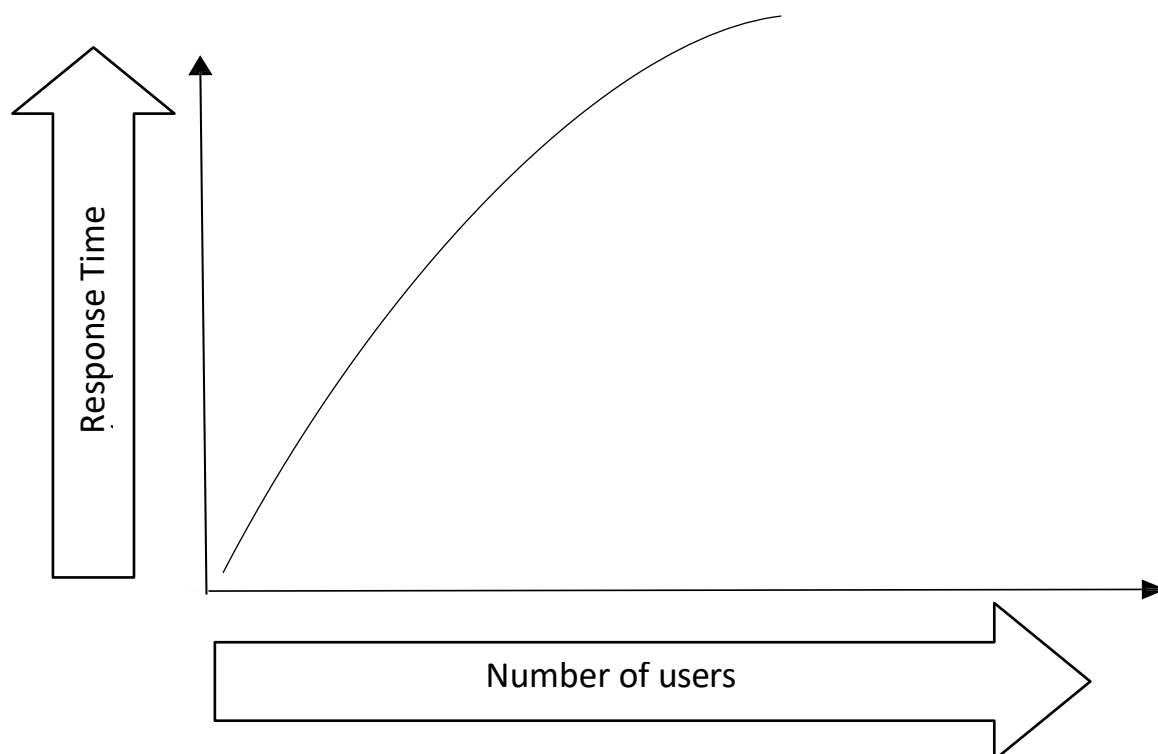
- a. Start J-Meter
- b. Select test plant
- c. Add user group
- d. Add user group to the test plan Let number of users 100 users
- e. Loop Count=10 (No of Time a test is executing)

Step 2: Prepare different test Cases to check performance of system under test.

Step 3: Add graph result

J-Meter will show test result in graphical format.

Step 4: Run test for different test cases and J-Meter will show the different test result in a graphical format.



Practical No: 2

AIM: To develop a class diagram

Problem:

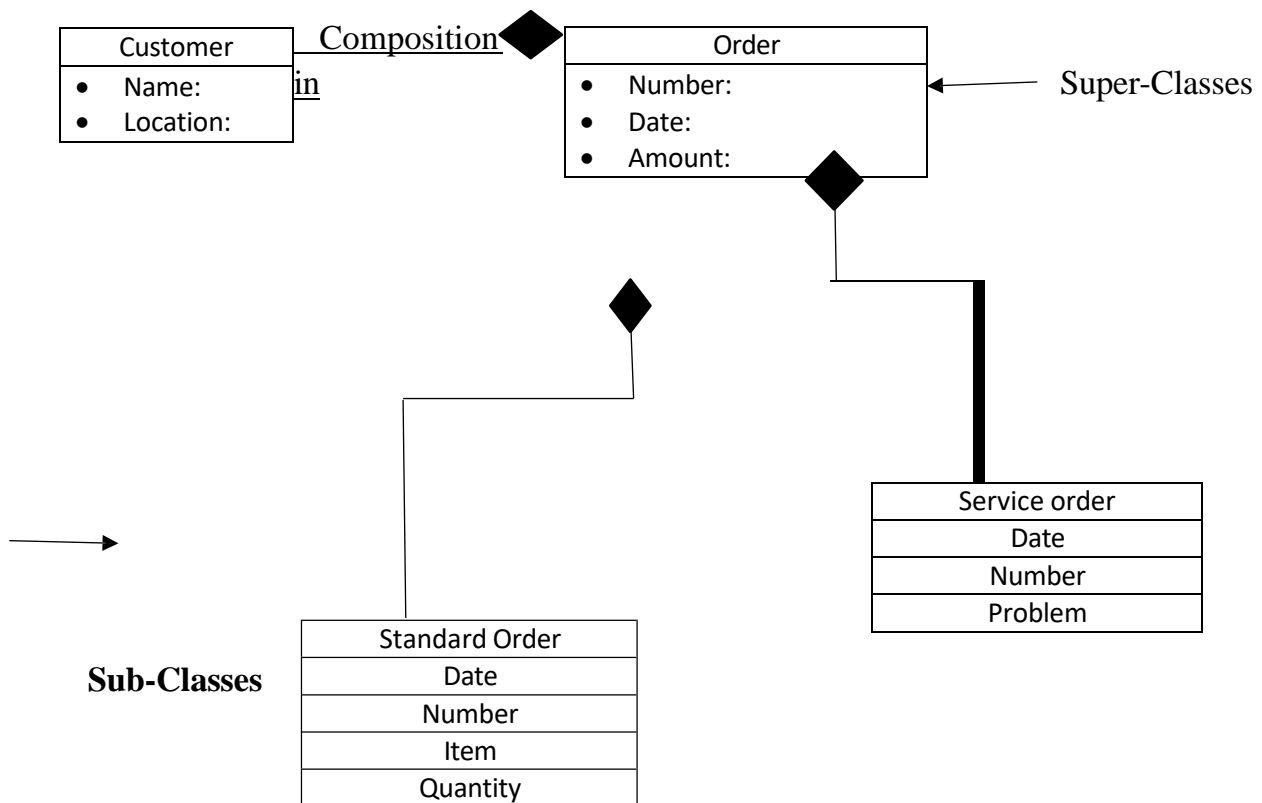
To develop a class diagram for customer an order.

Procedure:

Step 1: Identify different classes, here customer an order are the two classes. They are related with one to-many relationships as one customer may place different orders.

Step 2: Orders can further divide into standard orders and service orders. Here order is super class and standard and service orders are sub-class.

Step 3: Draw a class diagram by showing relationship between different classes.



Practical No: 3

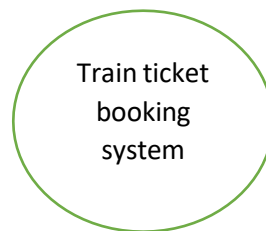
AIM: Develop DFD Model (level 0 and level 1 DFD) of the problem

Problem:

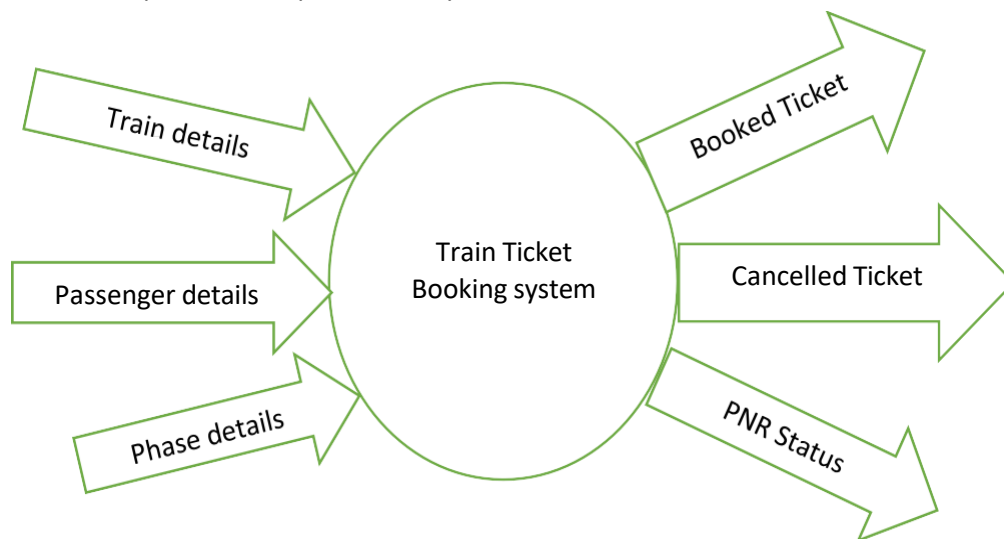
To develop 0-level DFD of a Train Ticket Booking System

Procedure:

Step 1: Write the system in a single bubble.



Step 2: Add all Inputs and Outputs to the system.



Output:

0-level DFD is developed for ticket booking system which shows a basic Data Flow Diagram.

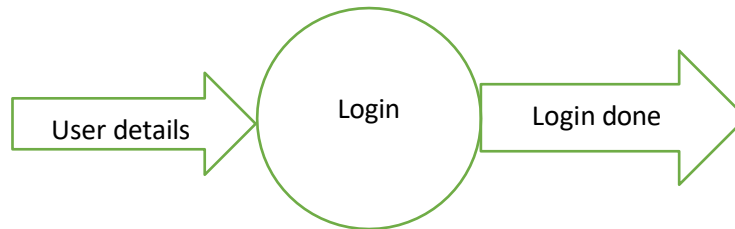
Problem:

- (i) Develop level-1 DFD for the Train Ticket Booking System.

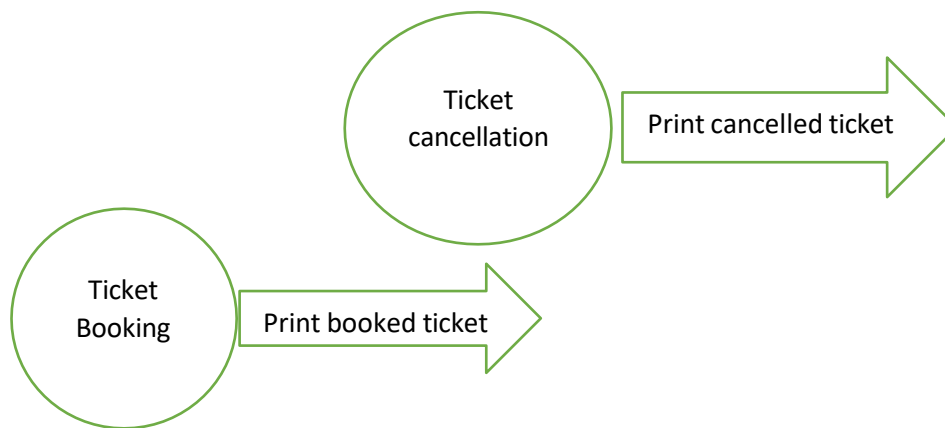
Procedure:

Break activities into details for ex:

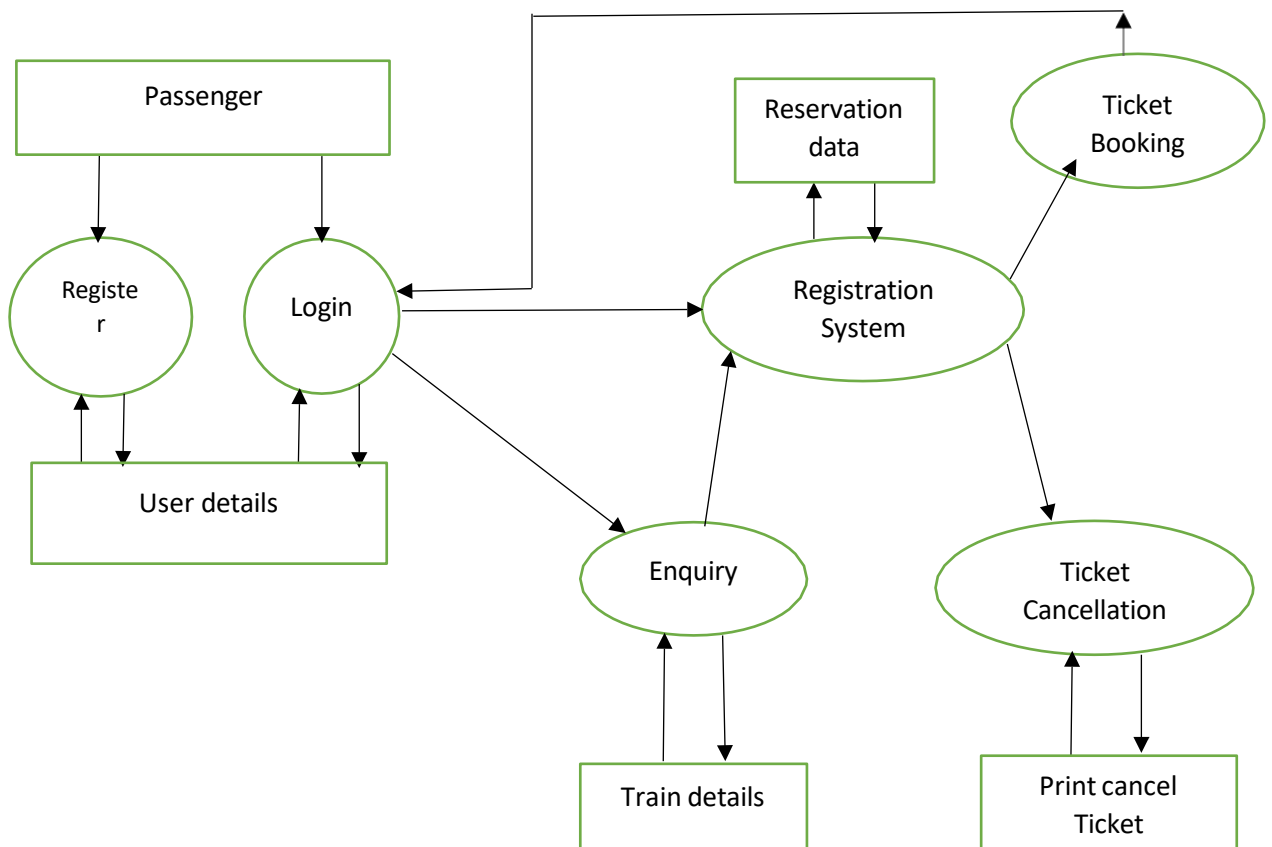
- (i) User details can also be defined as a bubble where Input and Output are connected.



Similarly, Ticket Booking and Ticket cancellation can be represented in more details.



The complete level 1 DFD is given below: Print Booked ticket



Practical No: 4

AIM: Use Gantt Chart/Project as a Project management Tool.

Introduction:

Gantt Chart is a tool for project management used to allocate resources to activities.

Procedure:

A Gantt Chart can be prepared as shown below by showing all activities on a chart with respect to time.

Phase-1	Phase-2	Phase-3	Phase-4	Phase-5
Req. gathering Analysis	Design	Coding	Integrate Test	Deployment
Documentation				

Gantt Chart show scheduling a project with time limits.

STEP TO CREATE A GANTT CHART

Step 1: Identify essential tasks: like in above case. Req. gathering and analysis, design, coding, testing, deployment are the essential tasks required.

Step 2: Identify task relationship: It shows relationship between task in a project. Some tasks start after one task completes. For example, in above example documentation task is there from start to end.

Step 3: Draw chart using a templet: Create graph of activities/tasks as shown above.

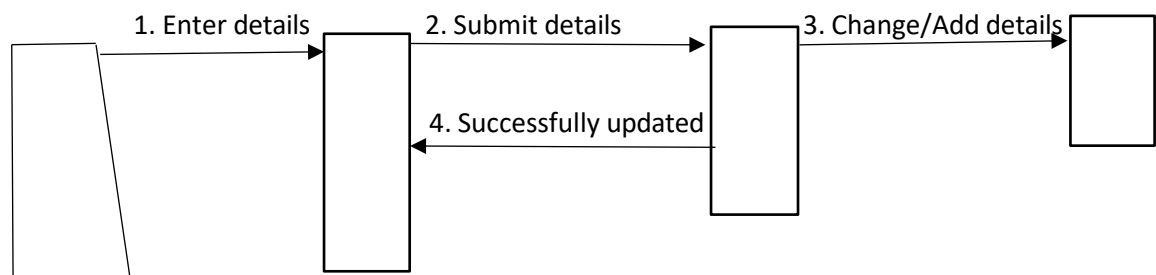
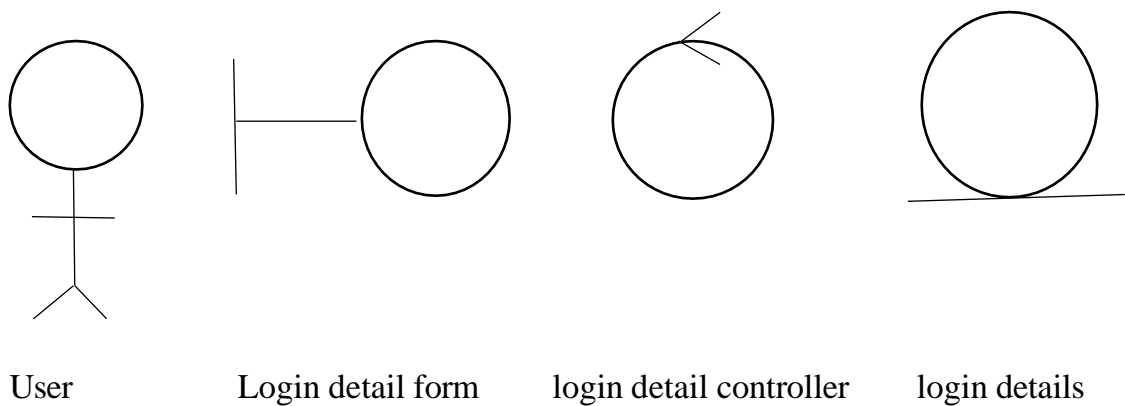
Step 4: Measure Chart Progress: Measure the progress of the chart i.e. everything is moving as per scheduled time or not.

Practical No: 5

AIM: To develop sequence diagram pf given problem:

Problem:

In sequence diagram all process of a system are represented in a sequence.
For example, we have to change our login password to a system the detailed sequence of process will be:



Output:

A sequence diagram which shows the step of a process in a sequence.

Practical No: 6

AIM:

Take a system, study it's specification and report various bugs: Let's take example of ATM System.

Features to be Tested:

1. Validity of card
2. Withdraw flow of ATM
3. User Authentication
4. Dispense Cash from account
5. Verify the balance enquiry
6. Change of ATM PIN

Bug Identified:

Bug ID	Bug Name
ATM-001	Invalid Card
ATM-002	Invalid PIN
ATM-003	Invalid Account Type
ATM-004	Insufficient Balance Transaction
ATM-005	Limit Day Limit
ATM-006	Invalid Money
ATM-007	Denominations
ATM-008	Receipt Not Printed
ATM-009	PIN Change Mismatch