

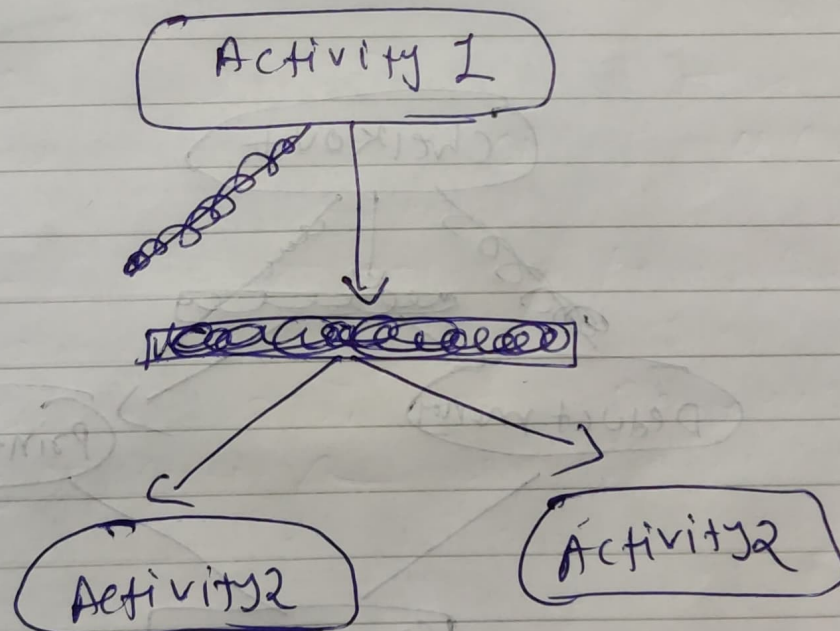
Name: milind N. modi

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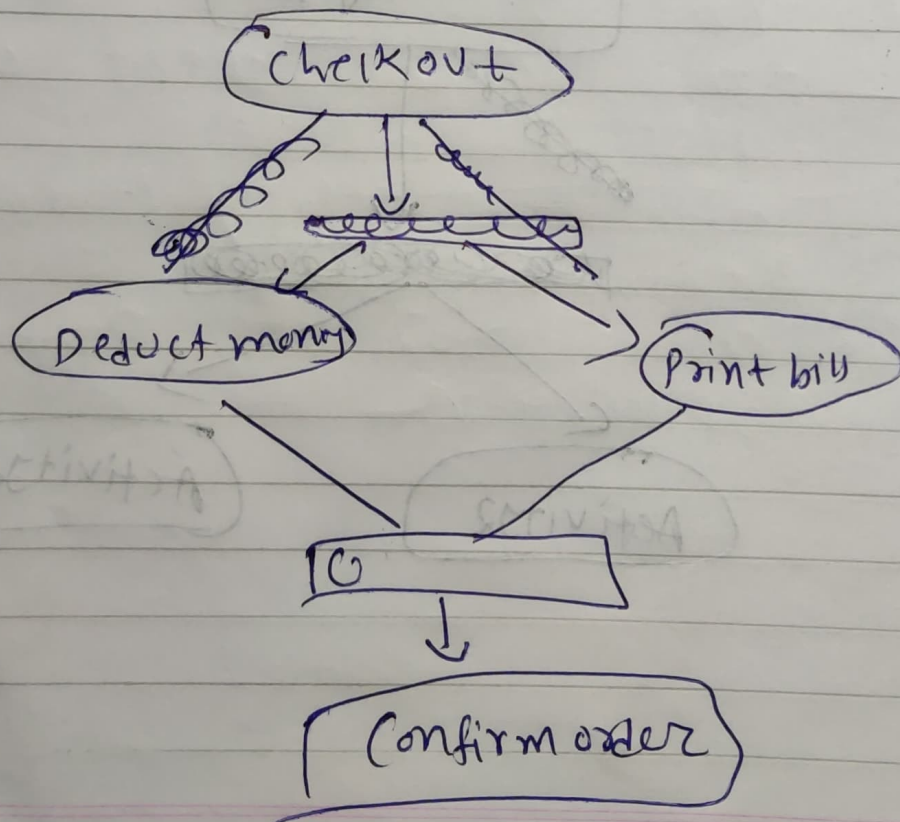
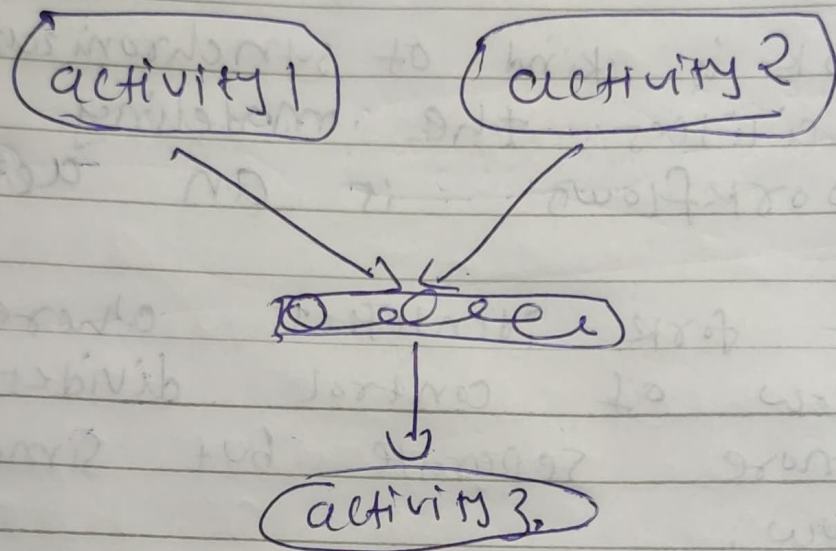
Subject: O.O.A.D

Q1 fork is kind of synchronization element facilitates the modeling of simultaneous workflows is an activity.

A fork identifies where a single flow of control divides into two or more separate but simultaneous flow.



Join is another kind of Synchronization Element that facilitates the modeling of simultaneous workflows in an activity.



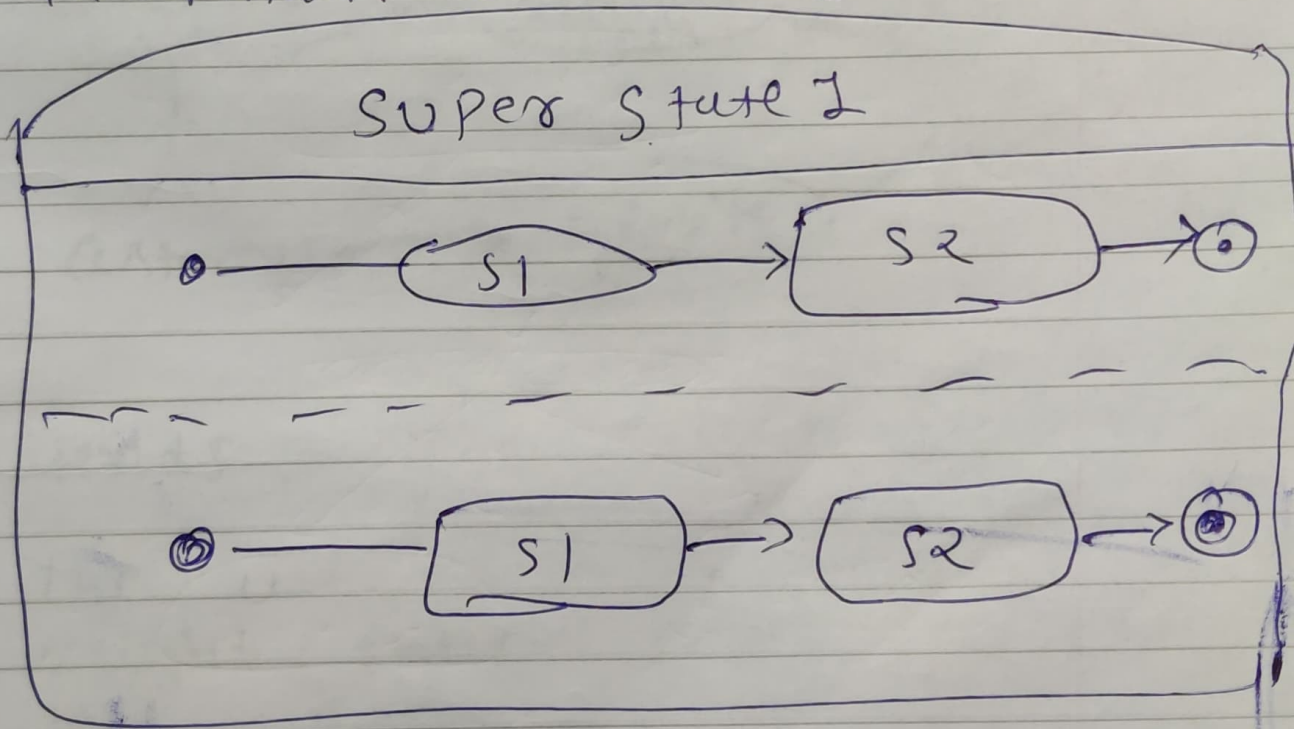


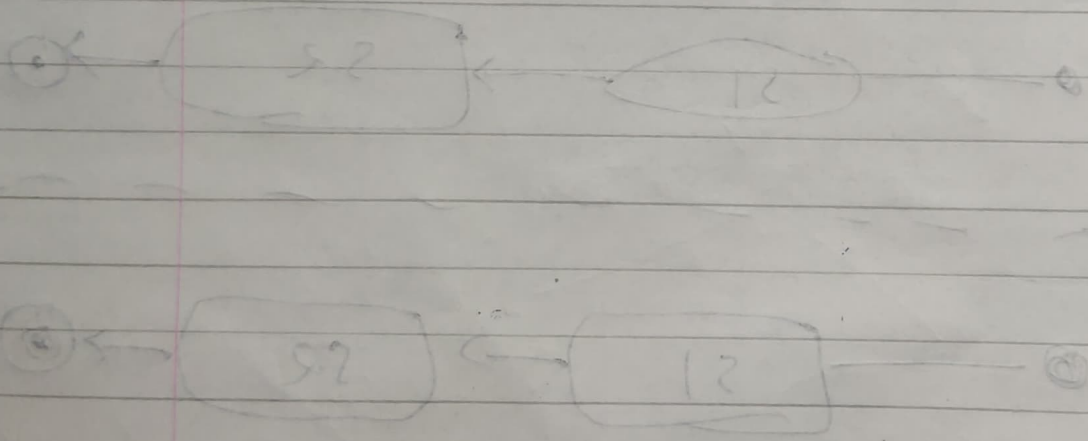
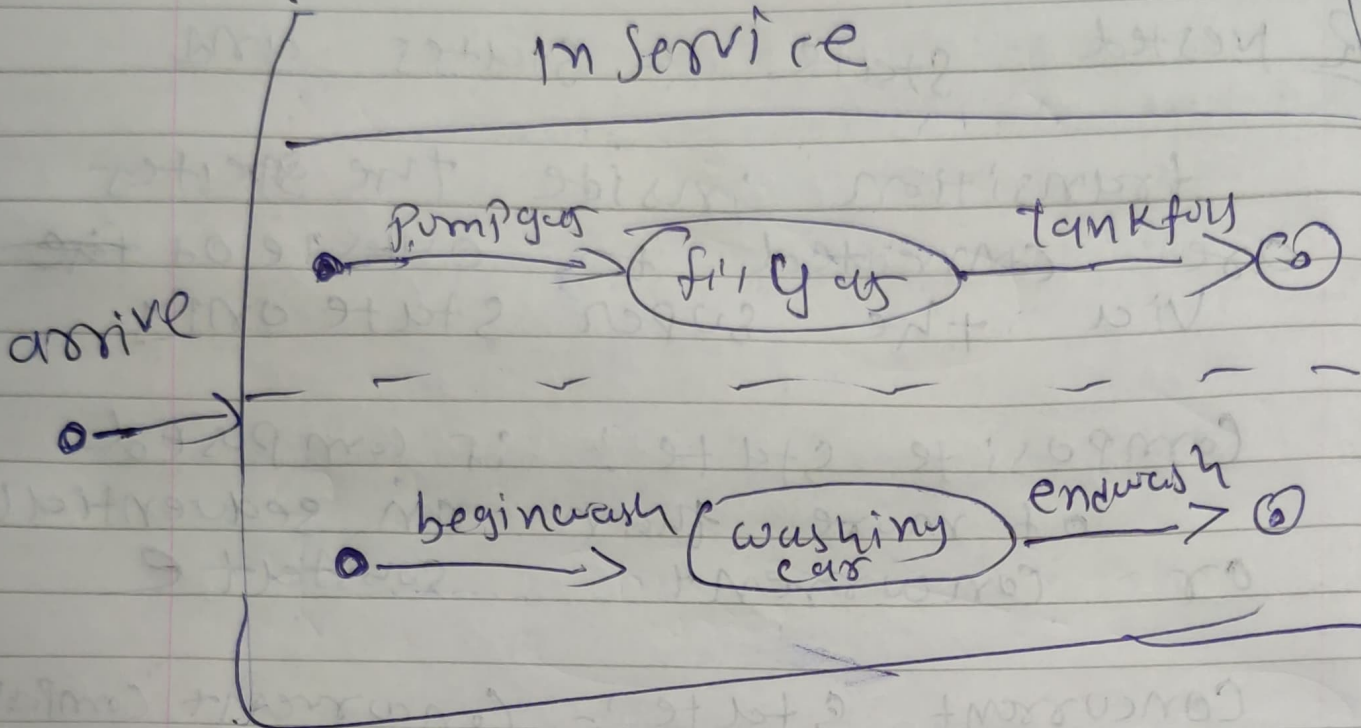
Q2 Nested state :- States and

transition inside the states are connected to outside of the via the super state only.

Composite state :- is composed of more than one sequential or concurrent substate

Concurrent state :- Concurrent composite state is useful when a give object sets of independent behaviour.

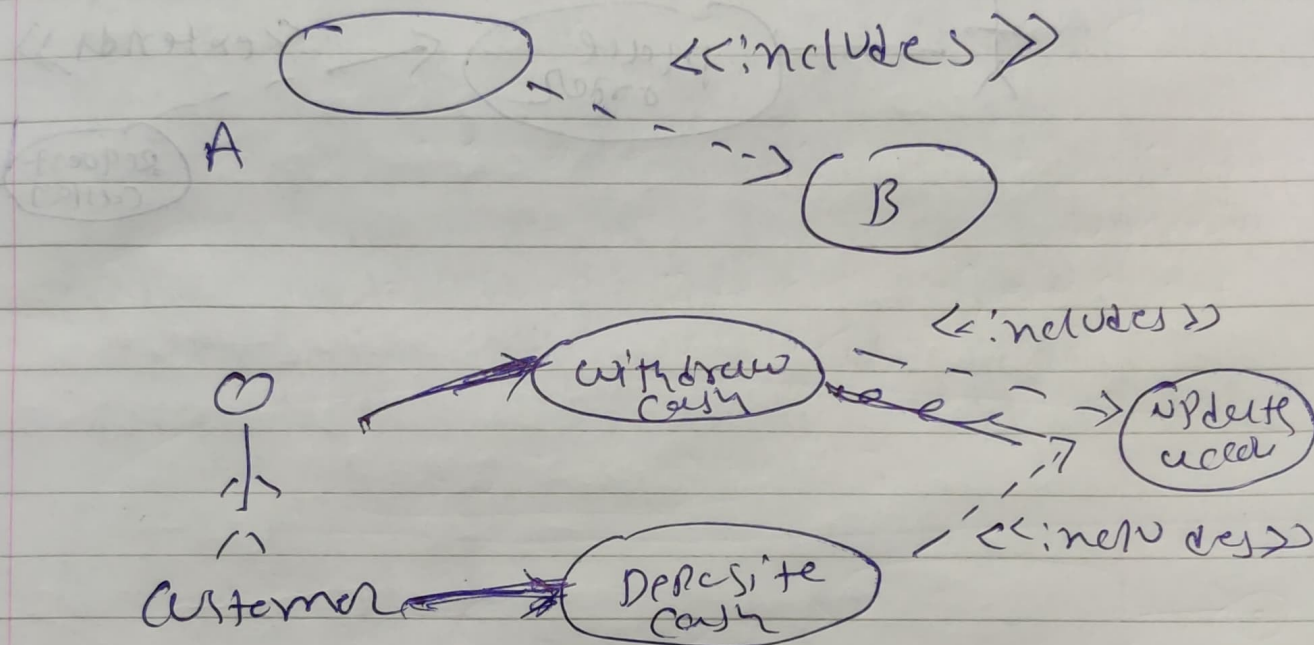




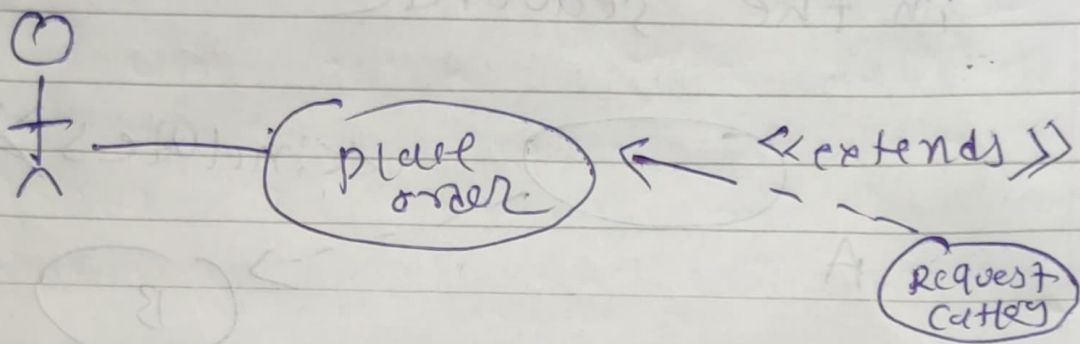
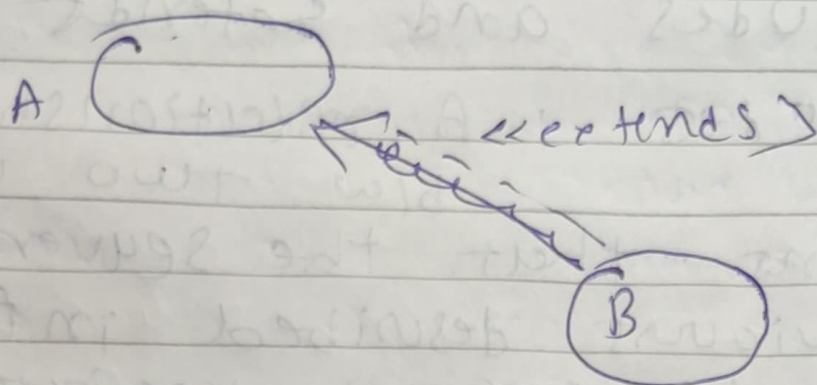


Q8 Includes and extends

Includes :- A relationship b/w two use-cases means that the sequence of behaviours described in the included or (sub) use case is in the sequence



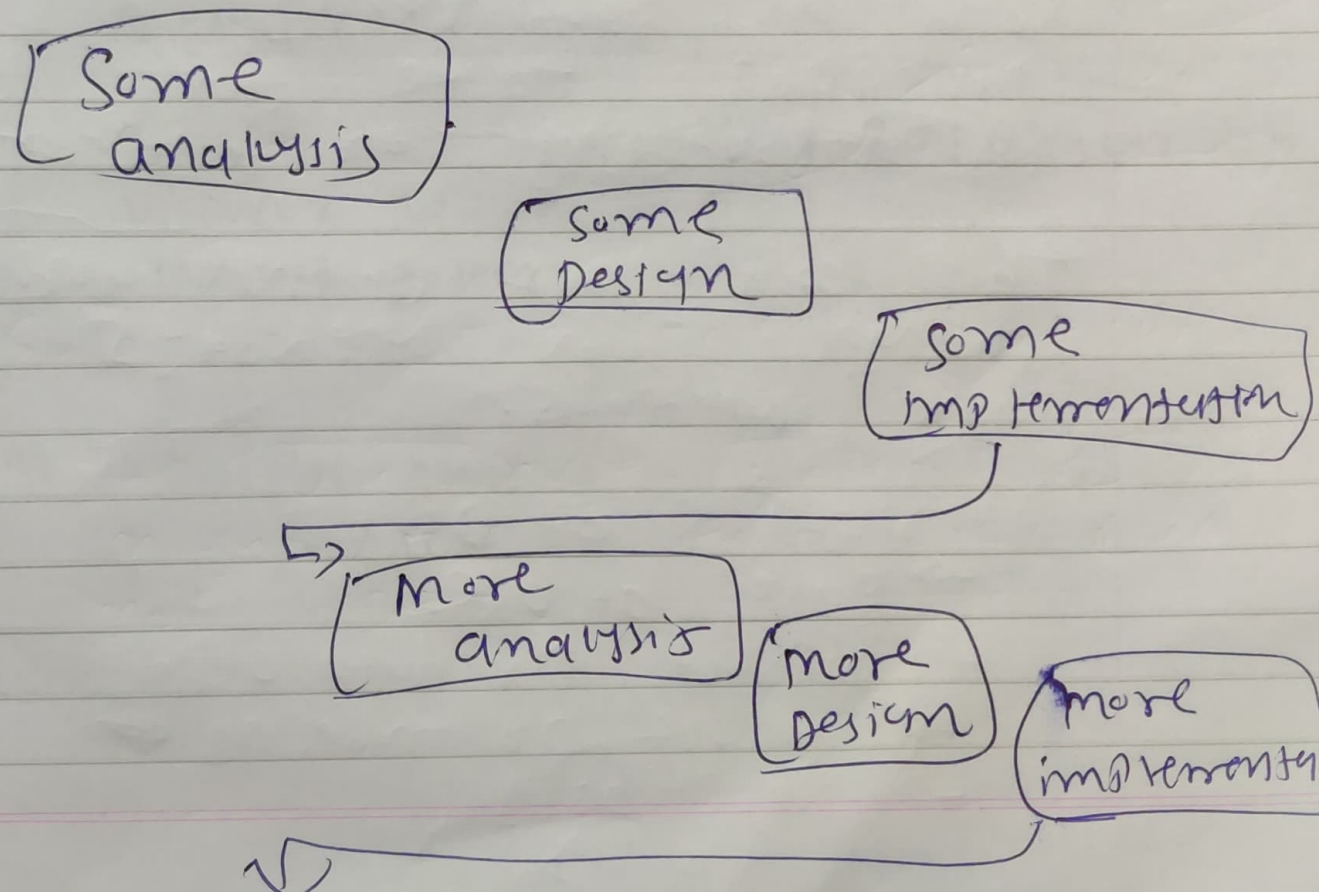
Extends :- The extends Relationship provide capturing the use-case extension might their exists or can not exist.





Q4 Iterative approach of S.D  
Iteration means that work activities analysis, design implementation - are done once then again and yet again they are repeated.

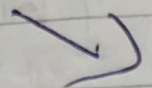
Each small problem is solved in turn until the large problem is solved then we plan, analyze, design and implement each smaller components into total solution, this approach is called an iterative approach to SDLC.



Even more  
Analysis

Even  
more  
Design

Even more  
Impl.



Even  
more  
Design

Even  
more  
Impl.

Even  
more  
Design

Even  
more  
Impl.



## Q5 Gantt Chart

is type of bar chart that used for visualizing the task by the Time bar; moreover

It shows the start and finish date of ~~project~~ ~~task~~ element of project that include resources, task even the dependencies to

Gantt chart is visualization that helps in scheduling, monitoring specific task and resources.

Task		Year 2016	Year 2017
1	Vision & plan	[1 2]	
2	Market research	[3 4 5]	
9)	Initial start of project	[1 2]	

Q7

## Decision Support System

- allow user to explore the impact of available operations or decisions, sometimes the process is referred to as what if analysis because the user asks the system to analyse "what if sales grow up by 50 \$ mil." during 2<sup>nd</sup> quarter.

- Some decision support system are make routine decision such as how many passenger take fuel's for travelling or rent cars.

this can also depends and changes from weekdays and weekends.

### Attributes of DSS

- Ease of use
- Support for data access
- Support for modeling
- Adaptability
- flexibility



## Q.9 Joint application design

JAD : Joint application design  
it is a technique that  
expedites the investigation  
of system requirements.

a technique to define requirements  
or design system in a single  
session by having all  
necessary people participate

Critical factor in a successful  
JAD session to have all the  
important stakeholders present  
and available to contribute  
and make decisions.

Those who are included in  
JAD

- 1) JAD Session Leader
- 2) Users
- 3) Technical Staff
- 4) Project Team members.

JAD Leader : one of the

important member of the group  
the session leader is a person who is  
experienced or has been trained

~~Users~~ : ~~Users~~ in the JAD

Understand group dynamics  
and discussions

Technical staff :- A representative  
from the technical  
support staff should also  
be present.

Project team member :-

Both systems  
analysts and user expert from  
the team should be involved in  
JAD session.

~~Project~~ in JAD