

Unit 3

State model - It describe the life of the object

- His Combination of Several state diagram.

component

D Events. ore incident that take place ada particular time.

Types q Events

a) Signol Event.

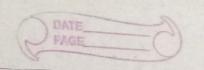
- Sending and receiving of information from one object to another.

(E) change event

Occur wher certain condition is solited

(3) Time event

occur at a Specified time or after Some to Specified time.



state. It sepresent the value of the altribute ? ar object at a posticular time. a situation of object at a particular time

transition and condition

when object changes is carrent state to another state

The occurrence of the transition also depends on the guard condition.

Advanced State Modeling

Nested State diagram. > Used to model the complex Problem.

Expanding States

y a state have have multiple sub state.

Nested state > Sub State, composite state, State inside the another state.

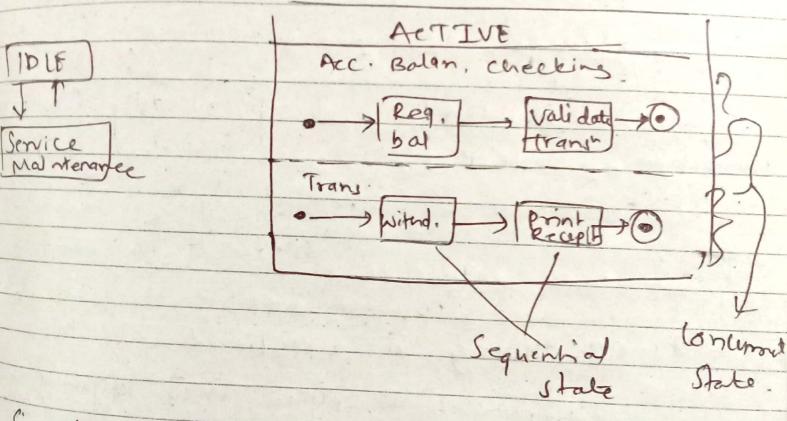


two types of SubState. 1) Sequential Substate proper flow gacherby achons or operation. Steps & Idle State @ Activating State 3 Active State End state. ACTIVE composite State Sul State



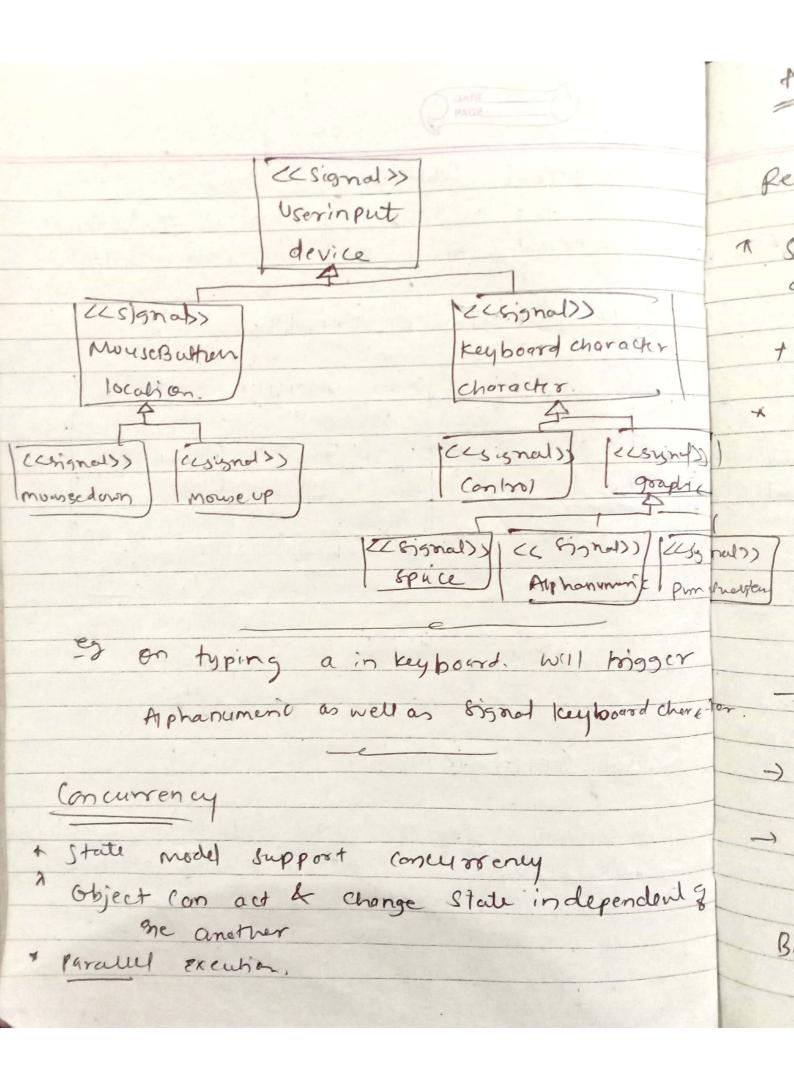
(moursenty, from we aren concurrent state.

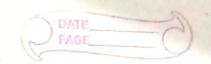
+ parallel flow of execution,



Signal Generalization.

the can organize Signal Enho a generalization hierarchy with inheritance of Signal attribute level of abstraction.





Relonion & class model & State model.

- quences pale model and Specities allowable Sequences quences to objects from the class model.
- + a single object can have ditt state over time.

  \* class model is attribute and behaviour of

Interaction modelling

1) Use case model.

- Solve a problem
  - It model the obehaviour of system and, Capture the requirement of System.
  - It describe the light level function t Scope.

Basic Components

1) Use case: - It is how the system is used - All the scenario that collectively work to och



) Asimple use case is a single interaction blw across & the system.

- 2) Actors -> External user of the system. who communicate with System.
- 3 System Boundary (subject)
  - System designer should define the things which are external to the System and the things that are part of the System.
- 4) Use case relationship.
  - O Association. ve case / Actor.

    one actor can associated with

    one or more vecases,
  - (2) We case (feneralization.

    (5) Use for SImplification of we case

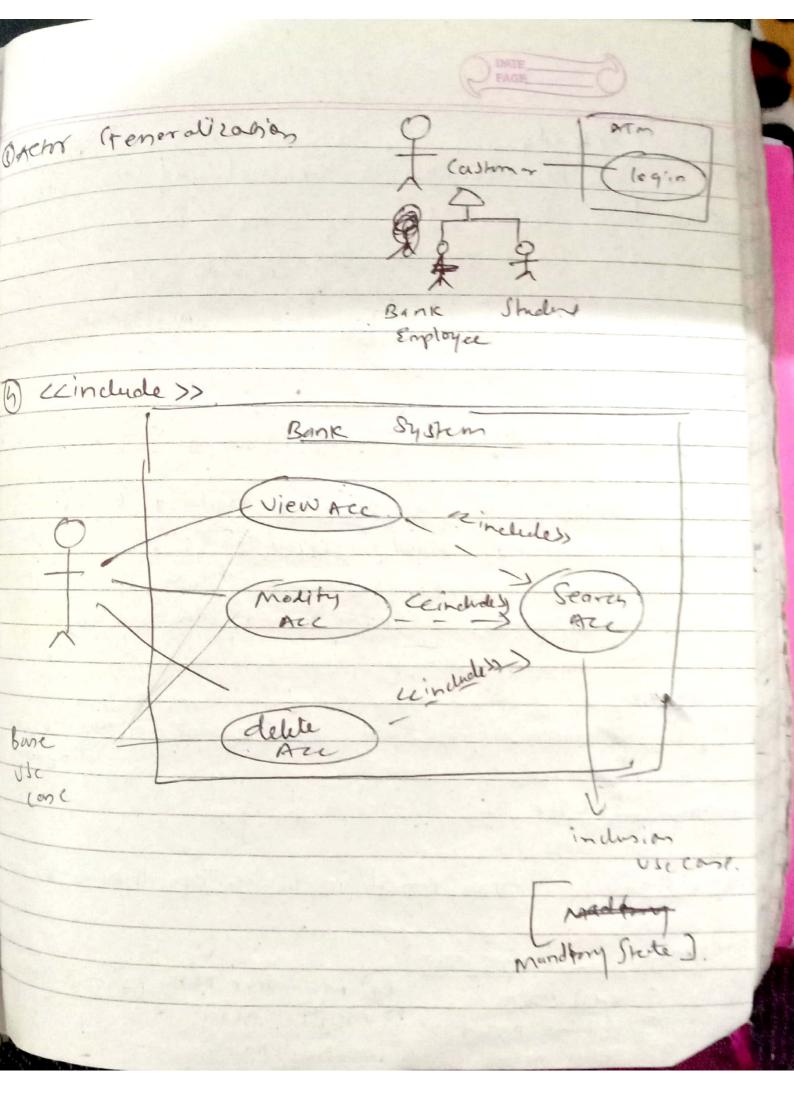
    (5) Use for SImplification of we case

    (4) (feneralization.

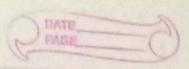
    (4) (feneralization.

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(S) ecextends,
The use case is optional and come after
the base use case
open ccextunds Add joint Acc. Acc. holder
Ace. (Ace. holder)
Sequence Model -) ordoning q Msg.
(interaction Model -) Sequence model + Collaboration Set q objects, relationshipand model
Set g objects, relationshipand model men age sent omongst them. Communication & Coordination blw two objects.
Hetation
lifeline - an individual participant in the sequent diagram
Actor - User
Activation: Sime period in which operation is performe
Mensage - interaction
1) cay Msg & Recursive Msg @ Dunchion
O cay Msg G Recursive Msg. 7 Dyrahon O return Msg Ornate Msg Msg. O Self Msg O Destroy Msg.
Self Msa (6) Destroy Msa



Activity model ) demostrate the flow of control within que system rather than implementation , Funchart of object mented system - workflow form one activity to another Dacholhes. 6 categorization of behaviour into ane or more actions. @ Achusty partition. & Sun