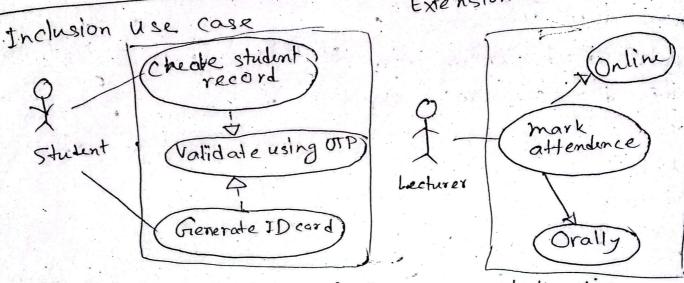
Use Case

perspective functionality of system from user

Include Relationship

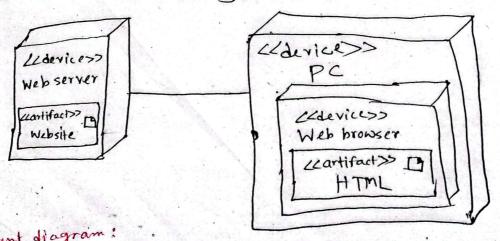
Extend Relationship. Extension use case



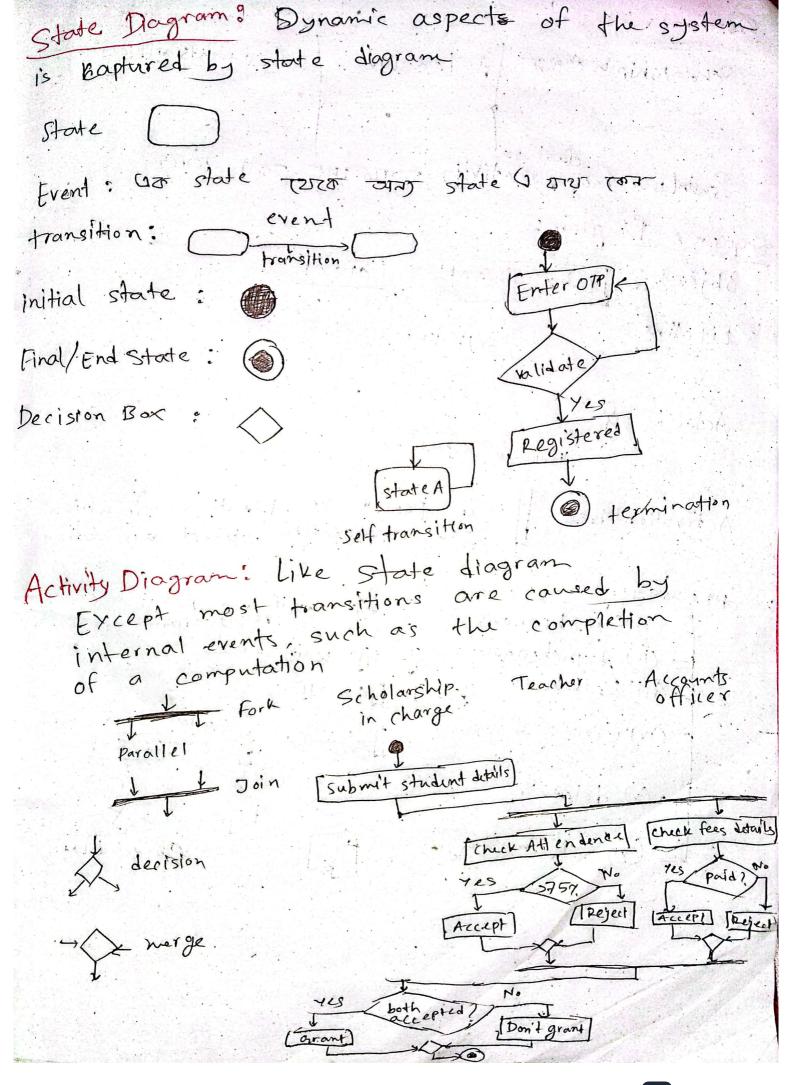
Object diagram: Snapshot of objects and relationship between them.

Component diagram: Physical aspects of system and relationship between them.

Deployment diagram: Chows how software and hardware components are distributed across a network or system.



Component diagram:



Swimlares: Scholarship in charge Ateacher Accounts officer swinling fary, activity - MATER BOT TIVE Equence Diagram: Object: [Esha: Student] [01:C1]
Lifeline: |- Lifeline Actor: Activation Bar Jour respective object a's active Me ssage (i) Synchronous wait are receiver roce

we'ply sustion state

will A short of the state of the s (ii) Asynchronous [] wait arost (iii) Return (I) (reate message F-1 B<---1 CCC (+ D--> 02:CZ for (v) delete. Object delete (vi) self message

Communication diagram object: objecti: classi 1: Wad ~ link 2: Msg link: lobject 2: class 2 3: msg. 4: Msg J wesselge 61; (1) WESS actor message for oct degree of intendependence oupling? measures the between software components. Data coupling A best Stamp coupling Control coupling External Coupling Common coupling
Content coupling Data module: Two modules communicate with each other only by passing data. cosh a faca Internal Tolar ornward are bank credit land & problem राजांड m (M) data (M2) a Eddition of two values using call by value

Stamp Coupling: Two modules communicate with each other by passing of data structume.

Me that the passing of data structume.

Control Coupling: Two modules is set to be controlled coupled if I the communicate using control information with each other. e.g. dependence of two modules on each other because of flag other because of flag signal green IT IIM train TMIOIN.

External Coupling: Measure of dependency between a software System and external entities like libraries or services the train green flag, track sair

Common Coupling: If two modules share some global data, eg. synchronization is sue between the processes

Content coupling: When one module is a part or context of another module

porfine Call coupling: Occurs when one routine calls another.

Type Use coupling: Occurs when a module uses a data type' defined in another module. Inclusion or Import coupling: When Occurs when one component imports a package or one component includes another

Cohesion: Measure of functions strength of the module.

Function
Sequence/Layer high
Communicational
Procedural
Temporal
Logical
Coincidental

Conincidental Cohesion: Only relationship between the functions in a module is random or coincidental.

logical Cohesion All the elements of a mordule Perform similar or slight simplar operations. house, printer, scamper functions are written in the san module

police, army warmen training Temporal Cohesion: When dements within a modula are grouped together because they are executed at the same fine or share a common temporal context. e.g. User anthentication

function for login, logaret and session expiration are grouped fogether due to their related timing during user interactions.

Procedural Cohesion: Functions of a module are related to each other through a flow control.

File handling popening reading writing closing

Communicational Cohesion: Different functions are operating on the same data structure push, pop

Sequential Cohension: When elements in a module are grouped together because they are executed in a specific sequence to perform a single task or procedure. ove Same as tempora)

n coj coj

1.000

functional Cohesion: Different functions of a module cooperate with each other to persform a single functional:

| adding | data
| supdating | manager donta managements -) deleting info Package Diagram: Simplechati

Client | Common | Client | Server | (cuser) 7 database 2

(iveci)

Server (cuser) > database 3 Component diagram User interface operation details manage code. Not language dependent - Waiter 7 1704] J.1 Store