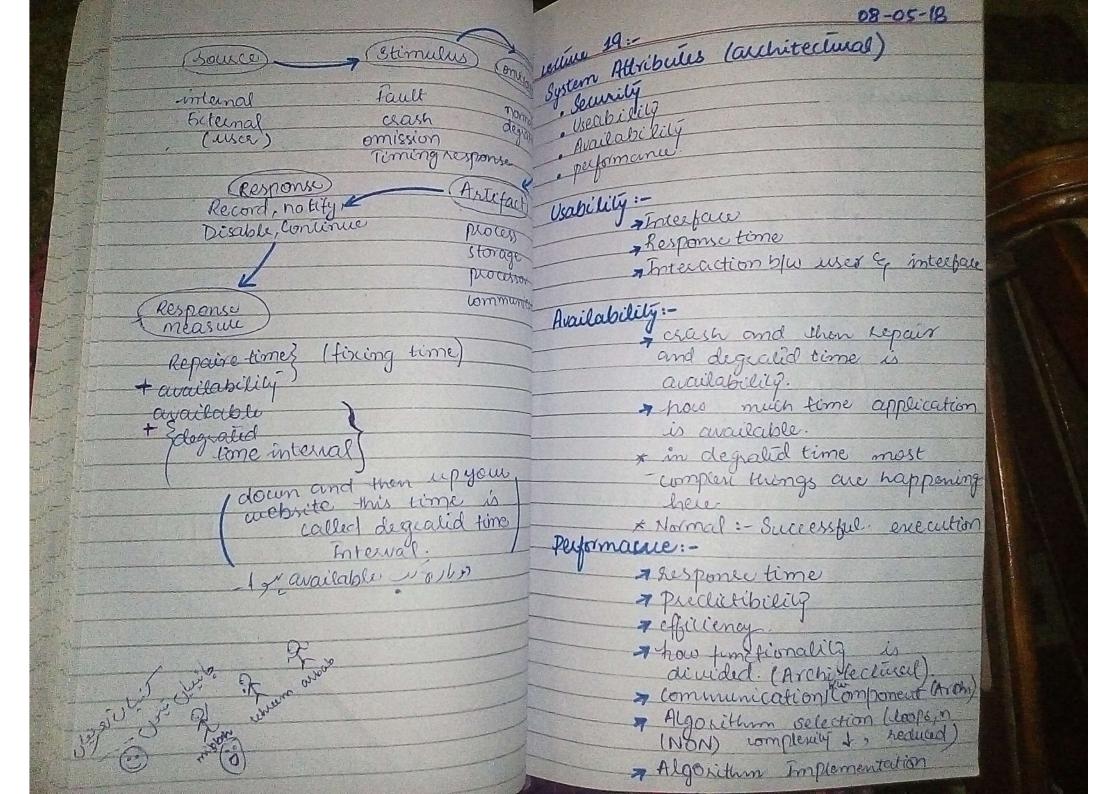
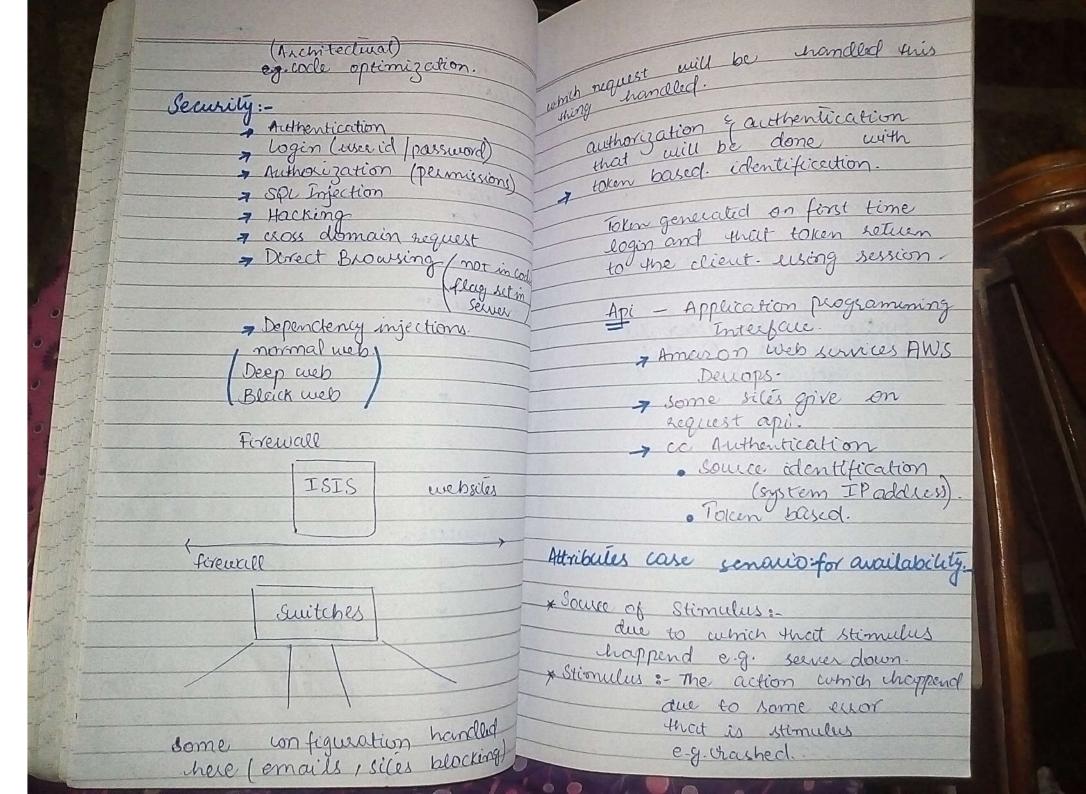
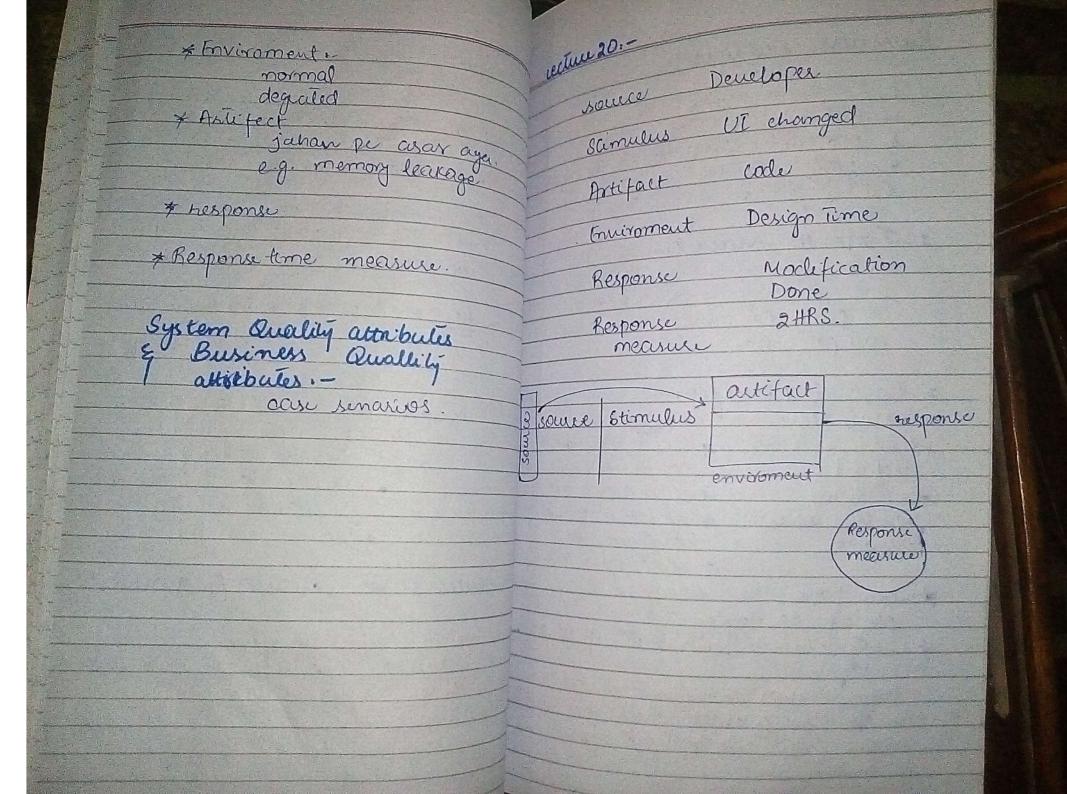
03-05-18 Lecture 18:-Quality Attaibutes these senario generale quailability 1 - Usebility :-Source of stimulus: from where the evor occured. jahan se · Interface (NON) generali hua · User friendly layout (NON) . Response time can be external or internal. · Stieen resolution. stimulus: e.g. response delay. jo occiuse hua hai. 2. Kerformanie:-· response time Environment: system condition · Efficiency [Requirements fullfilled - Preclictibility. Archifact: part or entire system hous ecror our system 3. Availability: human error bi system ellor hai · it application cracked (ans) there in how much time Response: fault identify, notify the it will recover. use and men mornage · Faults that is response. . 24/7 · Network down Response Measure 3

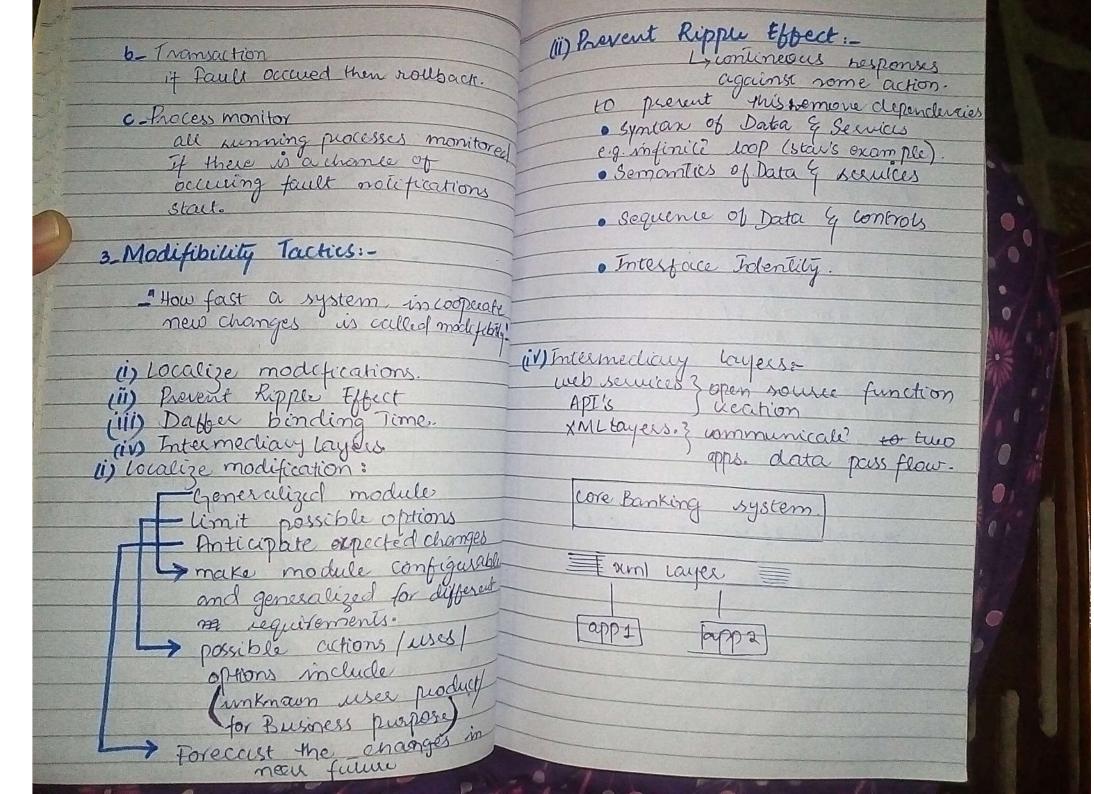






experied lifetime of the system: Business Outliers patches => 1.1, 1.2, 1.3... 1. Time to marked 2- lost & benefit revions => 1,2,3,... 3. projected lifetime of the system 4 Target Market 5 Integration with legacy system. eg BANKS , DOS (r changes) step by step (Desktop etc) 1. Time to Market: windows changed one by one. Le fin to flow the selve to the selver This is very important for a company for success and to 4. Tarket market:compele the market. · are for products · moslly are mebsité. 2. Cost & benefit:-· per user · product. · a specific organization or timeline 7 in which you defined do marketing. may be the ten normal uses will be the targeted market. none client neach one use. a Investment, profit 5. Integration with legacy system :specific to based on market Business Intelligence customer A beneficial or not. Databases (Philoriau). Juhan your are doing work ORACLE peoject: developing phase. * when project completed: product SQL Server | legacy systems Access check that how much you Excell invest in product and in FOA DATA J near fulting what profit your well grin.

1. Availability Tactics:-Lecture 21:-Acheiving Quality attributes Hi Fault Detection 1. Tactics:-· Exception Handling Design Pattern Architectual pattern infault Recovery I is a design decision that ·Rollback e.g Database inserting data influences the control of in application. response " on complete commit that. · Application restart if Design pattern :singleton: one instance can ciashed if system washed forcefully ueali Static pertout. Abstract Factory: polymorphism · Stale synchronization FASEADE & In windows we get different points to recover window Prosey : DR sever Architectual pattern: server 1 > Server 2 MVC, Peer to peer Recover, Fault Disaster recovery Architectural strategies:whor multiple pattern (iii) - Fault Prevention of Design & ar chitecline a-Romonal for service b-Transactions will be combine that is c- Process Monitor called strategy. a- Removal for services: it your application (service) is using by 3rd party and fault occure clue to that service.



Lecture 22:-27-05-18 4. Inxuface Identity:-Ripple Effect:
Dependencies:
Data which classes implements the which classes implements the are dependent upon that interface. Checkintime HH: mm: SS Check out Time (. Quality of code & services: Reports changed by changing How you implement & how the formals. many functions are used and need to secluce the dependencies made by themselves. to get less sipple effect and it Rippled-(iii) Daffer binding time :-1. Syntone of Data & Services 2- Semantics of Data & services Static bundling _ compile time 3 Sequence of Data & surices dynamic binding - Runtine Daffer binding add delays 4 Interface identity 5- Quality of 1- Runtime registration 2- Configuration files -3 polymorphism 4 Component Replacement 2-Semantics of Data & succes: 1> logic can deale > on run time you tell that you need to register. e g Printing

web config modules & elles

configured.

realoading & over riding

overloading in one or flow of Data if multiple classes data passing > changes replaced in one module

wietch data / remaining application. Pocess controller 1 Went Monitor. modificability inaccised through this eg task manager 4- Performance tactics: has high priority Ly Response time these tactics controls our * Dynamic Priority Scheduling response time. request deadline mentioned that in how much time 6) Hardware Resources it should be completed. bused on request deadline priority sets. Availability of resources usage of resources SCPU, datastore, memory & buffers & * Round Robin necyclic time assigned for Banchuidth resource allocation eg Data streaming applications use the resources. eg Reg/1 200ns Rega woons Reg3 25ons · control resources · control events Reg 4 100ms + seheduling of herouses that handled & Security Tactics: (i) Registring attacks
(ii) Detecting attacks
(iii) Recovering From attacks events. Types T*FIFO all are equal * Fixed priority Semantic imploctance process on priorities

Lecture 23:-Design the Architecture: module = a- Architecture in SDLC Garage door opening system. 6. Designing auchitective C. Forming Teams. d- Creating Skeletal system architecture Drivers tunctional non functional a Attribute Driven Design: (ADD) Steps (system SW) 1. choose the module to decomposed 2. Define the module a choose aunitectual deivas 6. architectural patien c-module's instensiation lormection of modules. d modules interfaces 3. Repeat steps for every module