USMAN INSTITUTE OF TECHNOLOGY

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BATCH: 17B

COURSE: SOFTWARE DESIGN & ARCHITECTURE

COURSE CODE: SE322

DEPARTMENT: BSc. SOFTWARE ENGINEERING

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ASSIGNMENT #02

MID TERM EXAMINATION

A)

Logical view:

Stakeholders: Designers, Programmer, Testing and Analyst.

Activities Perform: System layers would be whenever user can make a file request it will then retrieve from cloud using metadata server and then application server show on client side. In object model classes would be like file, user, group admin. Functional requirement would be create, edit, delete and update, adding a member, making group, sharing, view, download, in which we use such objects that's clearly represents a user to use a system easily and with fully understanding.

Modeling Diagrams: Class, object and composite structure diagram.

Terminologies Use: module, sub modules, screen, switch button, functional.

Development view:

Stakeholders: Programmers, Software manager.

Activities Perform: In development view we will cover the large area of an application related building blocks of system in our case it have a module of group admin side, one module for members, and one module for owner.

Modeling Diagrams: component, package diagram.

Terminologies Use: developer view, implementation, design.

Use case view

Stakeholders: user, group admin, group member, owner and other group admin and members.

Activities Perform: Activities performed by each actor on any system is called use case of the system and user, group admin, group member, owner and other group admin and members activities are combined in different module join together or join in sub-system

Modeling Diagrams: use case diagram

Terminologies Use: user stories, use case scenario, requirement, use cases

Process view:

Stakeholders: system integrators,

Activities Perform: In non-functional functional we conclude the system usability, performance, security, accessibility etc. which shows system additional features of working properly like page loading, encryption of documents and files. As our system is made on layered system and this process is cloud based so we need a many servers to deal with all this to retrieve, and save document. Inside classes we can create as many objects; in this case generally our objects are file_name, file_type, file_sorted, file_date, no_files, username, password etc.

Modeling Diagrams: sequence, communication, activity, state machine, interaction overview and timing diagram.

Terminologies Use: flow, behavioral view, sequence.

Deployment view:

Stakeholders: system engineers, deployment manager and database administrator.

Activities Perform: Being a web cloud app this system is hosted in, AWS (Amazon web server), the database hosting is MySQL all the processing is done in the backend, so that the client computer doesn't have to spend much of CPU power.

Modeling Diagrams: deployment diagram

Terminologies Use: non-functional, physical view, data model and database architecture.

B)

Architectural Perspective	Action Taken to achieve Architectural Perspective
Usability	System available in desktop app, web, and mobile app also available for MacOS, system should be friendly and easy to use complicated system doesn't attract audience or stakeholders.
Security	Middle attacks cannot be possible while using this file management system due to the security of the system and using protocols no one intrude in the system activities or no can play with your data because everything is present on cloud server.
Regulation	In our system policies and rules and regulations, would be assigned by the user and he/she have to accept it in , ongoing process of creating account.
Availability & Resilience	In a system is not recovering from power failure such as when power goes turn off system should restart from there suppose if I download a file so power failure occur so my file should start from there, also file pages or file is not taking so much time to open.
Development Resources	This system now days a very well-known system everyone aware of their needs so this system is timely manageable if we see our audience and can be in budget little bit expensive because many servers but the quality attributes or features are reliable for long term data storage and capacity.