23 Lecture - CS504

Important Subjective

Q: What are architectural views in software and system architecture? A: Architectural views represent different perspectives or abstractions of the architecture, focusing on specific concerns for various stakeholders. **Q: Why is it important to use architectural views in system design? A**: Architectural views help address different stakeholders' concerns, provide clarity, and ensure that all aspects of the system are adequately considered. **Q: What does the behavioral view in architectural views depict? A**: The behavioral view illustrates the dynamic interactions and behaviors of system components during runtime. **Q: How does the functional view differ from the structural view in architectural views? A:** The functional view emphasizes the system's functionalities and use cases, while the structural view focuses on the relationships and interactions between components. **Q: What is the purpose of the deployment view in architectural views? A**: The deployment view focuses on the distribution of software components across hardware nodes and provides insights into system performance and scalability. **Q: How do multiple architectural views contribute to system design? A**: Multiple views address different concerns, aid in stakeholder communication, and provide a comprehensive understanding of the system's various aspects. **Q: In the development view, what do you define regarding the software modules? A**: In the development view, you define the software modules, their organization, and their interconnections. **Q: What benefits does the use of architectural views bring to the development process? A**: Architectural views enhance system understanding, promote design consistency, and enable effective decision-making during system development. **Q: How does the structural view help in system design? A**: The structural view provides insights into the static structure of the system, such as the components and their relationships. **Q: How does the behavioral view complement the structural view in architectural views? A**: While the structural view depicts the system's static aspects, the behavioral view complements it by illustrating the dynamic behavior and interactions of components during execution.