25 Lecture - CS504

Important Subjective

Q: What is the role of the performance model in Architectural Models-II? A: The performance model evaluates the system's resource usage and response time, addressing performance concerns. **Q: How does the security model contribute to software development? A**: The security model assesses the system's ability to meet defined security requirements, ensuring data protection and access control. **Q: What is the primary concern of the scalability model in Architectural Models-II? A**: The scalability model focuses on evaluating the system's ability to handle increased workloads and user demands. **Q: How does the usability model impact user experience in software systems? A**: The usability model addresses non-functional requirements related to user experience, aiming to enhance user satisfaction and interaction. **Q: In Architectural Models-II, what does the recovery model primarily evaluate? A**: The recovery model assesses the system's ability to recover from errors and failures, ensuring fault tolerance and system reliability. **Q: What are the key considerations in the reliability model in Architectural Models-II? A**: The reliability model addresses non-functional requirements related to system reliability and fault tolerance. **Q: How does the performance model help optimize software applications? A**: The performance model identifies bottlenecks and resource-intensive areas, aiding in optimizing system performance. **Q: What is the primary focus of the usability model in Architectural Models-II? A**: The usability model emphasizes user experience and satisfaction, ensuring the system is user-friendly and intuitive. **Q: How does the scalability model support system planning and design? A**: The scalability model provides insights into the system's ability to grow with increasing demands, supporting capacity planning and design decisions. **Q: What are the benefits of incorporating the security model in software development? A**: The security model helps identify vulnerabilities and potential threats, enhancing the overall security posture of the system.