

**VIT**Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

REG.NO.:

SCHOOL OF COMPUTER SCIENCE ENGINEERING AND INFORMATION SYSTEMS
CONTINUOUS ASSESSMENT TEST - II
FALL SEMESTER 2024-2025

SLOT: A1+TA1

Programme Name & Branch : M.Tech (SE) & Software Engineering
Course Code and Course Name : ISWE202L and Requirements Engineering and Management
Faculty Name(s) : Prof. Asha N, Prof. Sree Dharinya S
Class Number(s) : VL2024250102882, VL2024250102877
Exam Duration : 90 minutes **Maximum Marks: 50**

General instruction(s):

- Answer All Questions
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- Course Outcomes
CO3. Apply the various strategies of requirements elicitation process and appreciate the challenges of requirement elicitation.
CO4. Appreciate the various methods of defining a system and scope management.
CO5. Learn mapping of requirements and understanding of traceability relationships.

Q. No	Question	M	CO	BL
1.	Scenario-1: A Hospital Management System (HMS) project's includes, but is not limited to, developing software modules for electronic health records (EHR), patient management, appointment scheduling, billing and invoicing, inventory management, and reporting. It also involves integrating these modules into an organised structure that satisfies the particular demands and specifications of the medical facility. In addition, user training, data migration from current systems, customisation to fit certain workflows, and continuous technical support and maintenance are all included in the system. In addition, putting in place security measures to protect patient data, making sure that laws and regulations like HIPAA (Health Insurance Portability and Accountability Act) are followed, and making sure that the system is scalable to allow for future expansion and technological improvements. For the Hospital Management System described in scenario-1, conduct the brainstorming and idea reduction technique for generating new, useful ideas by promoting creative thinking. Apply the two phases of the technique to generate and prioritize the ideas, with the selected ideas identify the brainstormed features and define the features.	10	3	4
2.	For the Hospital Management System described in scenario-1, apply the Storyboarding technique to explore, clarify, and capture the behavioural interaction envisioned by the user as part of requirements elicitation.	10	3	4
3.	Scenario-2 : Movie Ticket Booking System that includes User Registration and Authentication: Users should be able to register with the system. Movie Listings: Display a list of movies currently playing in theatres. Seat Selection and Reservation: Interactive seat map allowing users to select seats. Real-time updates on seat availability. Booking Process: Seamless booking flow with step-by-step guidance.	10	4	4



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	Payment Processing: Integration with multiple payment gateway. Secure handling of payment information. Cancellation and Refund: Allow users to cancel bookings within a certain time frame. Performance: Fast response times for browsing movies and booking tickets. Scalability to handle a large number of users concurrently, especially during peak hours. Reliability: High availability of the system. For the Movie Ticket Booking System mentioned in scenario-2, describe the vision document that defines the application in general terms, including descriptions of the target market, the system users, and the application features.			
4.	Consider the scenario-2 stated for Movie Ticket Booking System, describe the Use Case Document to represent in detail how the user effectively uses the system to achieve the specific tasks.	10	4	4
5.	Scenario-3: Food Ordering System enables hotels and restaurants to increase scope of business by reducing the labour cost involved. The system provides an easily manageable online menu using this interface the customer can place orders with just few clicks. Restaurant owner will process the orders by confirming the payment via online through an easy to navigate graphical interface efficiently to provide the ordered items. For the Food Ordering System described in scenario-3, represent how you will derive the test cases from the use case scenarios. Describe the use case scenarios for the system and derive 10 test cases based on it.	10	5	4

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