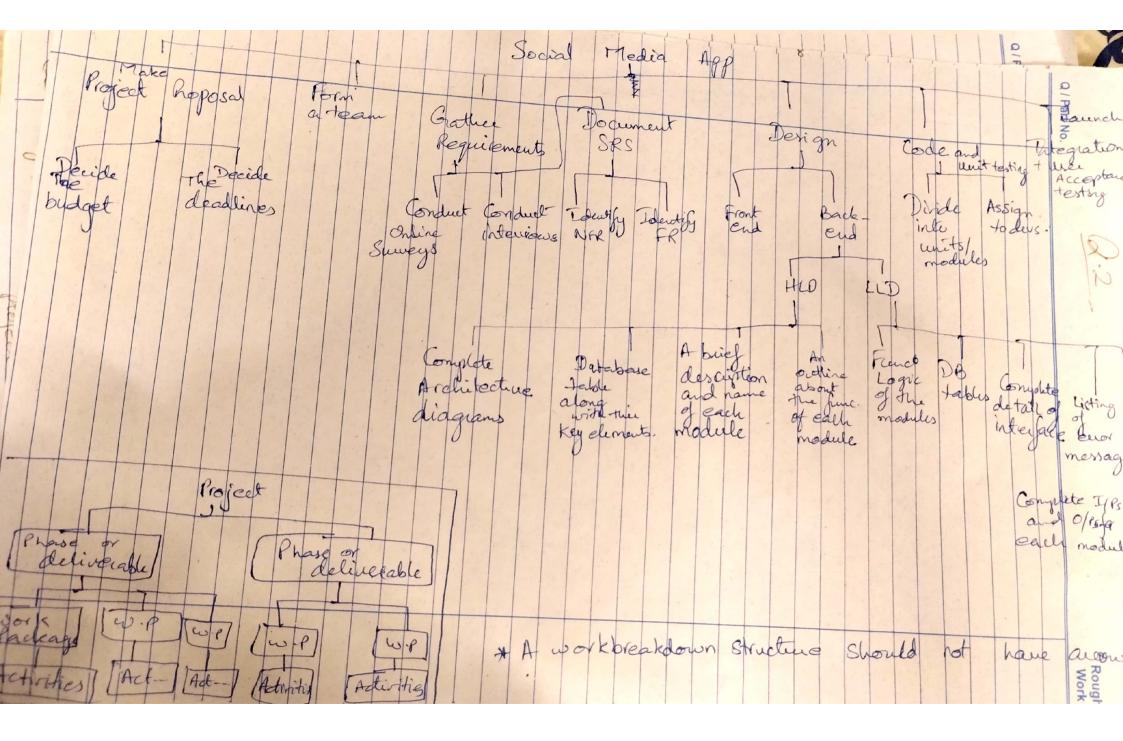
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Part No. Rough Work





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organize their software team accordingly and divide their work in 30-day time boxes. Using your knowledge about Agile and Scrum, fill in the table below (Parts a - h). [8 marks]

	Scrum concept (marked in bold)	Name for this concept
0	They identified and recorded all the features of the system in order of priority. The features of the product will include placing orders, customizing pizzas, tracking delivery status, and maybe even a loyalty program.	a) Product Backley
9	They selected a subset of these features to be developed in each 30 days.	b) Spirit Backlog
20	The time period of 30 days to develop this subset.	c) sprint
St.	A fifteen-minute daily meeting to keep everyone on track	d) Sceam S
	A person in charge of the project, who leads meetings and guides the team in the right direction	e) Scewn Mastea
ee	A client stakeholder for whom the system is being built and who maintains the feature list with priorities	f) Product Owner
N	The small group of developers who distribute the work among themselves	BIS Cecon team
/	The work product (an operational software) at the end of each 30 days.	h) Inciements
0	Software Engineering practices in Softwa	re Industry

CLO#1: Describe the importance of Software Engineering practices in Software Industry

Q5. A software team developing an e-commerce website divided their software development work among their six team members. They had 6 months to develop the software. As soon as the project [Total 23 marks] started, they performed the following actions in parallel:

Ali started making class diagrams, Haider started testing, Maria started asking questions to the prospective end users, Nadeem started making the user interfaces for the website, Moeen started developing the website, Nadia started making the use case diagrams

Keeping this information in mind answer the following questions (Parts a - e):

- a) Was it the right approach to start all these actions in parallel? If not, which process framework activity would help in arranging them in the right order? (2 marks)
- b) If we add a person in the software team to aid that process framework activity (identified in part a), what would his/her job role be called? Explain briefly. (3 marks)
- c). Write down the phases of Waterfall SDLC. (4 marks)
- d) Identify in which order these actions should have been conducted, if the Waterfall model was to be used. (5 marks)
- e) Name the software tools to aid each of these activities (one tool per activity). (4 marks)
- f) If the requirements of the e-commerce website to be developed were unclear and fuzzy, which process model should've been chosen? Write down 2 advantages and 2 disadvantages of that process model. (5 mark)



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- MCQ5. The psychological state of "flow" can be best defined as
- D 0 It is a state achieved by consuming large amounts of caffeine, to do overtime
- For some procrastinators it is a state achieved just before a deadline
- It is a condition of deep, nearly meditative involvement during work, in which one is largely unaware of the passage of time
- It is a state achieved by customers during the sale season
- 0 0 It is a condition in which the software team gets when the client is satisfied by their end product.
- MCQ6 Quality attributes do NOT include:
- Interoperability
- Maintainability
- Consistency
- Probability
- Usability
- MCQ7. Which of the following is NOT an advantage of Open Source Software:
- Lower costs
- Higher costs
- Security
- Stability
- Flexibility
- MCQ8 Ethical practice means:
- Inserting bugs into a program
- Writing quick and dirty code to meet a schedule
- Shipping defective software
- Shipping software that does not meet the agreed-upon specifications
- Removing all bugs before shipping the software
- MCQ9 Which of the following is NOT an advantage of the software production process:
- It ensures on time delivery
- It reduces costs
- It improves quality
- 6 It helps in jelling the team
- 0 It enables better control
- MCQ10. and are the four Ps of project management
- Plan, Provide, Perform, Process
- People, Product, Process, Project
- Project, Prepare, Protect, Plan
- Perform, Produce, Prepare, Provide
- People, Plan, Process, Prototype
- Q1.2 Draw the Scope Triangle

Q1.3. Write down two unhappy consequences of overtime. Describe each of them in one line. [5 marks] b

2) Course

Availabil

items CLO #5 Apply the Divide and Conquer principle to decompose a software project into smaller work [4 marks]

Q2. Make a Work Breakdown Structure (WBS) for the following scenario:

[15 marks]

An entrepreneur planned to develop a social media app. He needed to get funding from an investor for which he had to make a project proposal to convince the investor that his idea had high growth

5

Introduction to Software Engineering (SE1001)

Date: May 29th 2024

Course Instructor(s) Ms. Kiran Khurshid

Final Exam

Total Time (Hrs): 2.5 90 Total Marks:

Total Questions:

SOLUTION

Roll No Section Student Signature

Attempt all the questions. Give to-the-point answers and manage the length of your answer according to the marks allocated to it.

Attempt Q1.1, Q3f) and Q4. on the question paper and attach it with the answer sheet.

CLO #3 Discuss key Software Engineering Principles

Q1.1 MCQs. Choose the most suitable option in the MCQs given below and write down your selected option in the given table. Cutting/overwriting/choosing more than one option will not be accepted. [10 marks]

MCQ10 MCQ8 MCQ9 MCQ7 MCQ5 MCQ6 MCQ4 MCQ2 MCQ3 MCQ1 0

Different activities connected together in a timeline form a path in a software project MCQ1. plan. The critical path is the one in which if an activity gets delayed it will delay the project.

- a. True
 - b. False

Process framework activities do not include: MCQ2.

- a. Communication
- b. Planning
- c. Modeling
- d. Construction
- e. Training

shows how the framework activities and the actions and tasks that occur MCQ3. within each framework activity are organized with respect to sequence and time.

- a. Class diagram
- b. Process flow
 - c. Time-box
 - d. Sprint
 - e. Scrum

A project manager's task is/are: MCQ4.

- a. Innovating
- b. Directing
- c. Monitoring
- d. Staffing
- e. All of the above

Department of Computer Science

Page 1 of 4

Spring 2024



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