Quiz **Quiz 2**

Opens at: Jan 13, 2024, 00:00   Due on: Jan 18, 2024, 23:59

Total Score   5

Q1. Which of the following are sources for requirement discovery?

Score: 1 Neg. Score: 0

✔ Stakeholder interviews   (Your answer)

   Software Engineering books

✔ Documents provided by the client   (Your answer)

✔ Requirement documents of similar software   (Your answer)

Your Score: 1

Q2. Which of the requirements validation checks is/are the sole responsibility of the software customer?

Score: 1 Neg. Score: 0

   Realism

   Verifiability

   Consistency

✔ Completeness   (Your answer)

Your Score: 1

Q3. An architectural pattern does **not** provide which of the following information?

Score: 1 Neg. Score: 0

✔ An estimation of the development time when the pattern is used   (Your answer)

✔ An estimation of manpower and cost budget required for developing a software using the pattern   (Your answer)

   An example of the type of the system where the pattern is used

   Its advantages and disadvantages

Your Score: 1

Q4. Suppose that you want to develop a web service for displaying weather information. The weather information is displayed on the website and updated at a regular interval. The information that is shown on the website varies from location to location. For example, if someone wants to check the weather of Kanpur, no information about snowfalls is provided.
Which of the following architecture patterns is best suitable for developing this web-based software?

Score: 1   Neg. Score: 0

Layered Architecture

Repository Architecture

✔ Model-View-Controller Architecture   (Your answer)

Client-Server Architecture

Your Score: 1

Q5. Which of the following are drawbacks of the repository architecture?

Score: 1   Neg. Score: 0

Difficulty in concurrent development by several developers   (Your answer)

Implementing version control

✔ Single point of failure   (Your answer)

✔ Difficulty in distributed implementation   (Your answer)

Your Score: 0

Q6. You want to develop control software for an autonomous vehicle. The software takes the images taken by the front cameras as input and produces the steering angle, braking, and acceleration amount as output. The input camera image is processed for detecting objects in front of the vehicle. The object types and locations are used to generate a motion plan. Finally, the motion plan is used to generate the final control outputs.
Which of the following architecture patterns is best suited for developing this control software?

Score: 1   Neg. Score: 0

Client-Server Architecture

✔ Pipe and Filter Architecture   (Your answer)

Layered Architecture

Repository Architecture

Your Score: 1