What does a use case represent in a Use Case Diagram?

- ○ a. The scope of the system.
- ○ b. A specific functionality of the system.
- ○ c. An external entity that interacts with the system.
- ○ d. The relationships between use cases.

Câu Hỏi 2

What does a combined fragment represent in a Sequence Diagram?

- ○ a. An object
- ○ b. A group of interaction fragments with a specific operator
- ○ c. A message
- ○ d. A lifeline

Câu Hỏi 3

What is the focus of **User Experience (UX) design**?

- ○ a. The overall experience a user has while interacting with a product or service
- ○ b. The technical efficiency and speed of a system
- ○ c. The visual aesthetics of a user interface
- ○ d. The underlying code and architecture of a system

Câu Hỏi 4

Which symbol represents an initial node in an Activity Diagram?

- ○ a. A solid circle
- ○ b. A rectangle
- ○ c. A diamond
- ○ d. A hollow circle

Câu Hỏi 5

Which symbol represents a data store in a DFD?

- ○ a. Rectangle
- ○ b. Circle
- ○ c. Open-ended rectangle
- ○ d. Arrow

Câu Hỏi 7

What does a node represent in a decision tree?

- ○ a. A condition or decision point.

- ○ b. A rule to be followed.

- ○ c. A data element.

- ○ d. An action to be taken.

Câu Hỏi 8

What is the difference between aggregation and composition?

- ○ a. Aggregation is a stronger form of composition

- ○ b. There is no difference between aggregation and composition.

- ○ c. Aggregation represents a whole-part relationship, while composition represents a has-a relationship.

- ○ d. Aggregation is a weaker form of composition

Câu Hỏi 9 Chưa trả lời Đạt điểm 0,20 🏳 **Đặt cờ**

What is the primary purpose of a decision table (table rule)?

- ○ a. To represent complex decision logic in a structured format.
- ○ b. To model the user interface of a system.
- ○ c. To model the flow of data in a system.
- ○ d. To model the relationships between classes.

Câu Hỏi 6 Chưa trả lời Đạt điểm 0,20 🏳 **Đặt cờ**

Which type of interview question limits the interviewee even further than a regular closed question by offering only two polar choices?

- ○ a. Probing question
- ○ b. Open-ended question
- ○ c. Closed question
- ○ d. Bipolar question

Câu Hỏi 10

What is the primary purpose of an Activity Diagram in UML?

- ○ a. To model the static structure of a system.
- ○ b. To model the relationships between classes.
- ○ c. To model the user interface of a system.
- ○ d. To model the dynamic behavior of a system, focusing on the flow of control and activities.

Câu Hỏi 12

Which fragment represents an alternative conditional flow in a Sequence Diagram?

- ○ a. Loop
- ○ b. Alt
- ○ c. Par
- ○ d. Opt

Câu Hỏi 11

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

What does a leaf node represent in a decision tree?

- ○ a. An action or result.
- ○ b. A data element.
- ○ c. A possible outcome of a decision.
- ○ d. A condition or decision point.

Câu Hỏi 13

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

Which GUI component is best suited for allowing a user to select only one option from a small, predefined set of mutually exclusive choices?

- ○ a. Drop-down menus
- ○ b. Check boxes
- ○ c. Text boxes
- ○ d. Radio buttons

Câu Hỏi 14

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

In a class diagram, a protected attribute is represented by which symbol?

- ○ a. ~
- ○ b. +
- ○ c. -
- ○ d. #

Which relationship represents a stronger "has-a" relationship where the child class cannot exist without the parent class?

○ a. Inheritance

○ b. Composition

○ c. Aggregation

○ d. Association

Which of the following is a disadvantage of using **open-ended questions** in an interview?

○ a. Putting the interviewee at ease

○ b. Allowing spontaneity

○ c. Revealing avenues for further questioning

○ d. Difficulty in analyzing responses

What is the disadvantage of using a decision tree?

○ a. It cannot represent decision logic in a hierarchical format.

○ b. It cannot model the flow of data in a system.

○ c. It cannot represent complex decision logic.

○ d. It can become complex and difficult to understand for large decision spaces.

What is the purpose of **CRC cards** in object-oriented analysis?

○ a. To create sequence diagrams for system interactions

○ b. To collaboratively identify and define classes, their responsibilities, and their collaborators

○ c. To model the database schema

○ d. To document the user interface design

Câu Hỏi 20   Chưa trả lời   Đạt điểm 0,20   🏳 **Đặt cờ**

What is the main goal of **Human-Computer Interaction (HCI)** design?

○ a. To minimize the cost of developing computer systems

○ b. To optimize the technical performance of computer systems

○ c. To implement the latest technological innovations

○ d. To design systems that are effective, efficient, safe, and satisfying for users

Câu Hỏi 18   Chưa trả lời   Đạt điểm 0,20   🏳 **Đặt cờ**

What is an **object menu** (context menu)?

○ a. A menu that appears at the top of the screen

○ b. A menu that lists all available functions of an application

○ c. A menu that uses only icons instead of text

○ d. A menu that appears when the user right-clicks on a GUI object, offering options specific to that object

What is the primary purpose of a Use Case Diagram?

- ○ a. To model the dynamic behavior of a system.
- ○ b. To model the data flow of a system.
- ○ c. To model the static structure of a system.
- ○ d. To model the functional requirements of a system from the user's perspective.

What do rule columns represent in a decision table?

- ○ a. Conditions to be evaluated.
- ○ b. Data elements.
- ○ c. Combinations of conditions and corresponding actions.
- ○ d. Actions to be taken.

What is a fundamental concept in **object-oriented systems analysis and design**?

○ a.   Objects that encapsulate data and behavior

○ b.   Data flow and transformation

○ c.   Sequential program execution

○ d.   Hierarchical data structures

When should a systems analyst avoid using open-ended questions on a questionnaire?

○ a.   When seeking opinions about a system

○ b.   When the topic is complex and requires detailed answers

○ c.   When surveying a very large sample of people and easy analysis is needed

○ d.   When it's impossible to list all possible responses

What does a data flow represent in a DFD?

○ a.   A place where data is stored within the system.

○ b.   A source or destination of data outside the system.

○ c.   A transformation of data within the system.

○ d.   The movement of data between components of the system.

Câu Hỏi 27

In which situation is **structured English** often an appropriate technique for analyzing a decision process?

- ○ a. When process logic involves formulas or simple iterative steps
- ○ b. When communicating decision logic to technical programmers only
- ○ c. When dealing with highly complex and non-sequential logic
- ○ d. When a visual representation of the decision logic is required

Câu Hỏi 28

Which element represents a lifeline in a Sequence Diagram?

- ○ a. A rectangle with the object's name
- ○ b. A solid circle
- ○ c. A rounded rectangle
- ○ d. A vertical dashed line extending from the object's rectangle

What is the purpose of a data dictionary in a DFD?

- ○ a. To describe the external entities in the DFD
- ○ b. To describe the data elements in the DFD
- ○ c. To describe the processes in the DFD
- ○ d. To describe the data flows in the DFD

What do swimlanes represent in an Activity Diagram?

- ○ a. Data flow
- ○ b. Object states
- ○ c. Responsibilities or roles performing activities
- ○ d. Control flow

Which symbol represents a join node in an Activity Diagram?

- ○ a. A horizontal or vertical bar with one incoming and multiple outgoing transition
- ○ b. A solid circle
- ○ c. A hollow circle
- ○ d. A horizontal or vertical bar with multiple incoming and one outgoing transition

What does a use case represent in a Use Case Diagram?

- ○ a. An external entity that interacts with the system.
- ○ b. A specific functionality of the system.
- ○ c. The scope of the system.
- ○ d. The relationships between use cases.

Câu Hỏi 33

Chưa trả lời   Đạt điểm 0,20   ⚐ **Đặt cờ**

Which unobtrusive method involves collecting and analyzing existing documents, records, and reports?

○ a. Observation

○ b. Analyzing quantitative and qualitative documents

○ c. Questionnaires

○ d. Interviewing

Câu Hỏi 34

Chưa trả lời   Đạt điểm 0,20   ⚐ **Đặt cờ**

What is the benefit of **UX design** for e-commerce transactions?

○ a. Increased server capacity and performance

○ b. Reduced development time and costs

○ c. Enhanced data security and privacy

○ d. Improved customer satisfaction, trust, and conversion rates

Which symbol represents a merge node in an Activity Diagram?

○ a.   A diamond

○ b.   A rectangle

○ c.   A solid circle

○ d.   A hollow circle

What is the primary purpose of a Sequence Diagram in UML?

○ a.   To model the dynamic behavior of a system, focusing on the sequence of interactions between objects.

○ b.   To model the user interface of a system.

○ c.   To model the relationships between classes.

○ d.   To model the static structure of a system.

Câu Hỏi 37

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

Which relationship represents a "has-a" relationship between classes?

- ○ a. Association
- ○ b. Inheritance
- ○ c. Composition
- ○ d. Aggregation

Câu Hỏi 38

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

What is a significant difference between questions used for interviews and those used on questionnaires?

- ○ a. Questionnaires allow for more detailed responses
- ○ b. Interviews are always administered electronically
- ○ c. Questionnaires are always composed of closed questions
- ○ d. Interviewing permits interaction and refinement of questions

Câu Hỏi 39

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

Which type of relationship represents the inclusion of one use case within another in a Use Case Diagram?

- ○ a. Extend
- ○ b. Generalization
- ○ c. Include
- ○ d. Association

What is the primary purpose of a UML class diagram?

○ a. To describe the dynamic behavior of a system

○ b. To describe the flow of data in a system

○ c. To describe the user interface of a system

○ d. To describe the static structure of a system, including classes and their relationships

What is a context diagram in a DFD?

○ a. A DFD showing only processes.

○ b. A DFD showing only data stores.

○ c.   The highest-level DFD showing the system and external entities.

○ d. A detailed DFD showing all processes.

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

What is the primary goal of creating **process specifications**?

○ a.   To illustrate the flow of data between processes

○ b.   To define the data elements used in a system

○ c.   To reduce the ambiguity of a process and provide a precise description of what it accomplishe

○ d.   To outline the user interactions with a system

Chưa trả lời   Đạt điểm 0,20   ⚑ **Đặt cờ**

Which type of message represents an asynchronous call in a Sequence Diagram?

○ a.   A line

○ b.   A dashed arrow

○ c.   A solid arrow with a stick arrowhead

○ d.   A solid arrow with a solid arrowhead

Câu Hỏi 44

What is the main benefit of using Use Case Diagrams?

○ a. To capture the functional requirements of a system from the user's perspective.

○ b. To model the dynamic behavior of a system.

○ c. To model the static structure of a system.

○ d. To model the data flow of a system.

Câu Hỏi 45

What is the primary purpose of a Data Flow Diagram (DFD)?

○ a. To model the flow of data through a system.

○ b. To model the dynamic behavior of a system.

○ c. To model the user interface of a system.

○ d. To model the static structure of a system.

What are the main components of a decision table?

○ a.   Processes and data stores.

○ b.   Actors and use cases.

○ c.   Conditions, actions, and rules.

○ d.   Objects and messages.