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Diagram Types in Software Engi...

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Entity-Relationship Diagram (ERD) is again related to an important architectural style, albeit a very different one (transaction-based forms). We then consider two behavioural forms, the State Transition Diagram (STD) and the Statechart, each with its particular strengths and limitations. The Jackson Structure Diagram offers a quite different example of such a notation: being more concerned with 'structure' and hence less explicitly related to any one viewpoint. Finally, we examine the recent development of the Unified Modeling Language (UML), and examine some representative black box forms from this (Rumbaugh et al., 1999).



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1. Which diagram represents the functional characteristics of a system?

- ☐ A) State Transition Diagram
- ☐ B) Data-Flow Diagram
- ☐ C) UML: Use Case Diagram
- ☐ D) Entity-Relationship Diagram

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2. Which diagram is used to model the *behavioural* aspects of a system?

- ☐ A) Structure Diagram (Jackson)
- ☐ B) Statechart
- ☐ C) UML: Class Diagram
- ☐ D) UML: Activity Diagram

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3. Which diagram represents the *static relationships* between design entities?

- ☐ A) UML: Activity Diagram
- ☐ B) UML: Use Case Diagram
- ☐ C) Statechart
- ☐ D) UML: Class Diagram



4. Which diagram is used to model the *interactions between a system and other 'actors'*?

- ☐ A) UML: Use Case Diagram
- ☐ B) UML: Activity Diagram
- ☐ C) Data-Flow Diagram
- ☐ D) Entity-Relationship Diagram



5. Which diagram is used to represent the *synchronization and coordination of system activities*?

- ☐ A) State Transition Diagram
- ☐ B) UML: Activity Diagram
- ☐ C) UML: Class Diagram
- ☐ D) Structure Diagram (Jackson)



6. What is the primary purpose of a black box notation in software design modeling?

- ☐ A) To represent the physical hardware components of a system
- ☐ B) To document the coding standards and guidelines used in development
- ☐ C) To describe the internal implementation details of an element
- ☐ D) To describe the external properties and behavior of an element



7. Which diagram is described as being more concerned with 'structure' and less explicitly related to any one viewpoint?

- ☐ A) Statechart
- ☐ B) State Transition Diagram (STD)
- ☐ C) Jackson Structure Diagram
- ☐ D) Entity-Relationship Diagram (ERD)



8. Which diagram is related to an architectural style focused on transaction-based forms?

- ☐ A) Unified Modeling Language (UML)
- ☐ B) Data-Flow Diagram (DFD)
- ☐ C) State Transition Diagram (STD)
- ☐ D) Entity-Relationship Diagram (ERD)



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