

39 Lecture - CS506

Important Mcqs

Sure, here are 10 multiple-choice questions (MCQs) related to MVC (Model-View-Controller) along with a case study, solutions, and multiple options:

****Question 1:** What does MVC stand for in software development?**

****Options:****

- A) Multi-Version Control
- B) Model-View-Creation
- C) Model-View-Controller
- D) Main-View-Context

****Solution:** C) Model-View-Controller**

****Question 2:** Which component in MVC is responsible for managing application logic and user interactions?**

****Options:****

- A) Model
- B) View
- C) Controller
- D) Middleware

****Solution:** C) Controller**

****Question 3:** What is the primary benefit of using the MVC design pattern?**

****Options:****

- A) Faster data retrieval
- B) Simplified database design
- C) Improved code organization and maintainability
- D) Enhanced user interface design

****Solution:** C) Improved code organization and maintainability**

****Question 4:** In MVC, what does the "Model" represent?**

****Options:****

- A) User interface
- B) Application logic
- C) Database and data-related operations
- D) Displayed content

****Solution:** C) Database and data-related operations**

****Question 5:** Which component of MVC is responsible for rendering data and user interface presentation?**

****Options:****

- A) Model
- B) Controller
- C) View
- D) UIHandler

****Solution:** C) View**

****Question 6:** In an e-commerce website, which MVC component would handle the addition of products to a shopping cart?**

****Options:****

- A) Model
- B) View
- C) Controller
- D) Middleware

****Solution:** C) Controller**

****Question 7:** Which MVC component would be responsible for storing product information like name, price, and quantity in an e-commerce website?**

****Options:****

- A) Model
- B) View
- C) Controller
- D) Database

****Solution:** A) Model**

****Question 8:** How does MVC promote code reusability in software development?**

****Options:****

- A) By allowing direct database access in the Controller
- B) By eliminating the need for a user interface
- C) By separating concerns and isolating functionalities in different components
- D) By embedding all code in a single file

****Solution:** C) By separating concerns and isolating functionalities in different components**

****Question 9:** Which MVC component would determine how product details are displayed in an e-commerce website?**

****Options:****

- A) Model
- B) View
- C) Controller
- D) Stylesheet

****Solution:** B) View**

****Question 10:** What is the role of the Controller in the MVC pattern?**

****Options:****

- A) Displaying data to the user
- B) Managing application data and interactions
- C) Defining the layout and styles of the user interface
- D) Storing data in a database

****Solution:** B) Managing application data and interactions**