

Short-Answer and Multiple-Choice Questions:

1. What does MVC stand for?

Given these options:

- a. Responsible for user interface
- b. Responsible for security of the system
- c. Responsible for “business logic” and domain objects
- d. Responsible for translating between user interface actions/events and operations on the domain objects
- e. None of the above

2. What are the M components in MVC responsible for?

3. What are the V components in MVC responsible for?

4. What are the C components in MVC responsible for?

Solutions:

1. Model-View-Controller

2. c

3. a

4. d

Solution:

No. The View class, GuiButton, has a method computeTeam-Record(). Computing a team's win/loss record is domain concern. Thus, a view class contains ~~model~~ model code, which violates the Model-View Separation Principle.

Problem:

For each of the three major parts of the MVC architectural pattern, tell the name of the part and its main responsibilities in the pattern.

Solution:

For each of the three major parts of the MVC architectural pattern, tell the name of the part and its main responsibilities in the pattern.

Model: Responsible for providing the app's "business logic".

View: Responsible for providing the app's user interface (UI).

Controller: Responsible for translating UI actions to operations on the model.

Multiple-Choice Questions:

1. What are the M components in MVC responsible for?
 - a. Responsible for user interface
 - b. Responsible for security of the system
 - c. Responsible for “business logic” and domain objects
 - d. Responsible for translating between user interface actions/events and operations on the domain objects
 - e. None of the above

2. What are the V components in MVC responsible for?
 - a. Responsible for user interface
 - b. Responsible for security of the system
 - c. Responsible for “business logic” and domain objects
 - d. Responsible for translating between user interface actions/events and operations on the domain objects
 - e. None of the above

3. What are the C components in MVC responsible for?
 - a. Responsible for user interface
 - b. Responsible for security of the system
 - c. Responsible for “business logic” and domain objects
 - d. Responsible for translating between user interface actions/events and operations on the domain objects
 - e. None of the above

Solutions:

1. c

2. a

3. d