

Spring Professional Exam Tutorial v5.0

Question 01

Question 01 - MVC is an abbreviation for a design pattern. What does it stand for and what is the idea behind it?

MVC stands for Model-View-Controller, it is a design pattern which divides application into three main interconnected component types.

Model

- Data Access
- Data Structures
- Business Logic
- CRUD Logic
 - C - Create
 - R - Read
 - U - Update
 - D - Delete

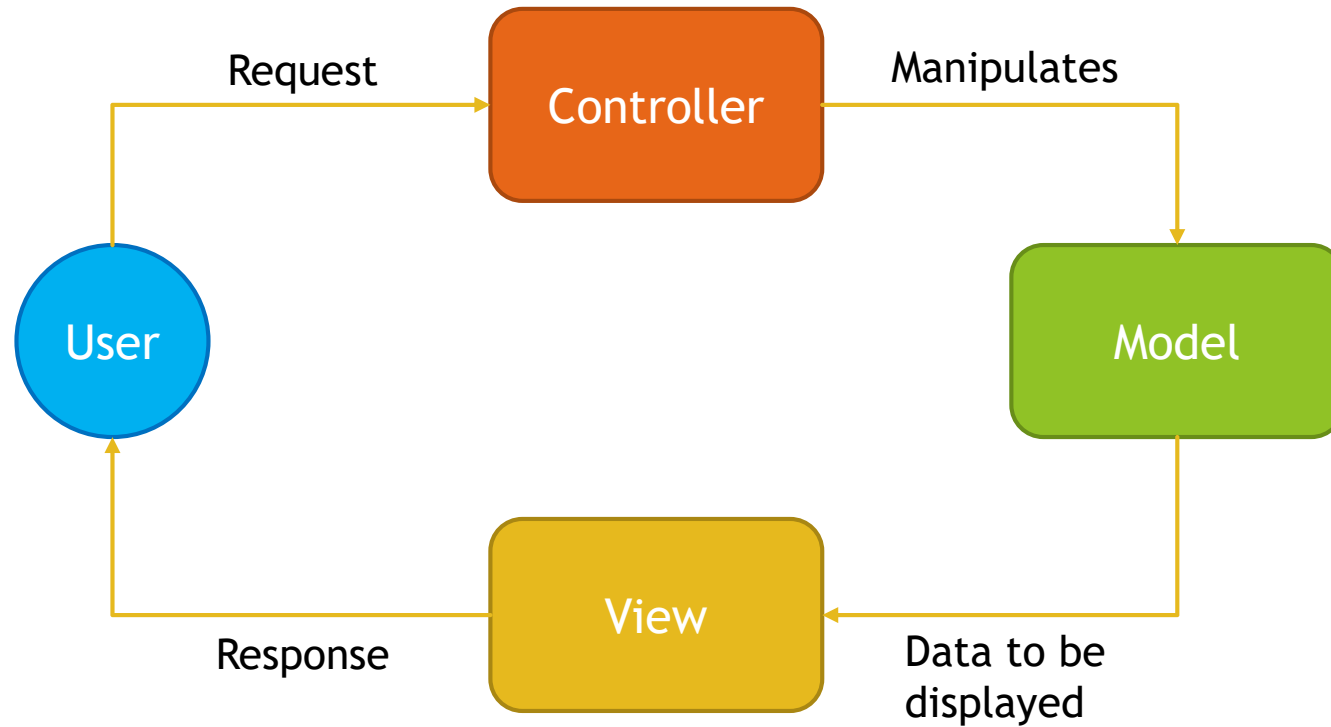
View

- Data representation to the user
- Multiple representations of the same data are possible

Controller

- Accepts requests from the users
- Issues command to Model
- Modifies the Model
- Decides on View to use

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Spring MVC introduces ready to use components that you can use in your application for MVC pattern.

Model

- Spring Data JPA
- Spring Data JDBC
- Spring Data MongoDB
- ...
- Custom Repositories implementation

View

- Thymeleaf
- FreeMarker
- Velocity
- Groovy Markup
- JSP & JSTL
- ...

Controller

- @Controller classes
- @RestController classes

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Usage of MVC design pattern has following advantages:

- ▶ Separation of concerns
- ▶ Increased code cohesion
- ▶ Increased code reusability
- ▶ Reduces coupling between data, logic and information representation
- ▶ Lowers maintenances costs
- ▶ Increases extendibility

