



College Book Store

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Spring MVC

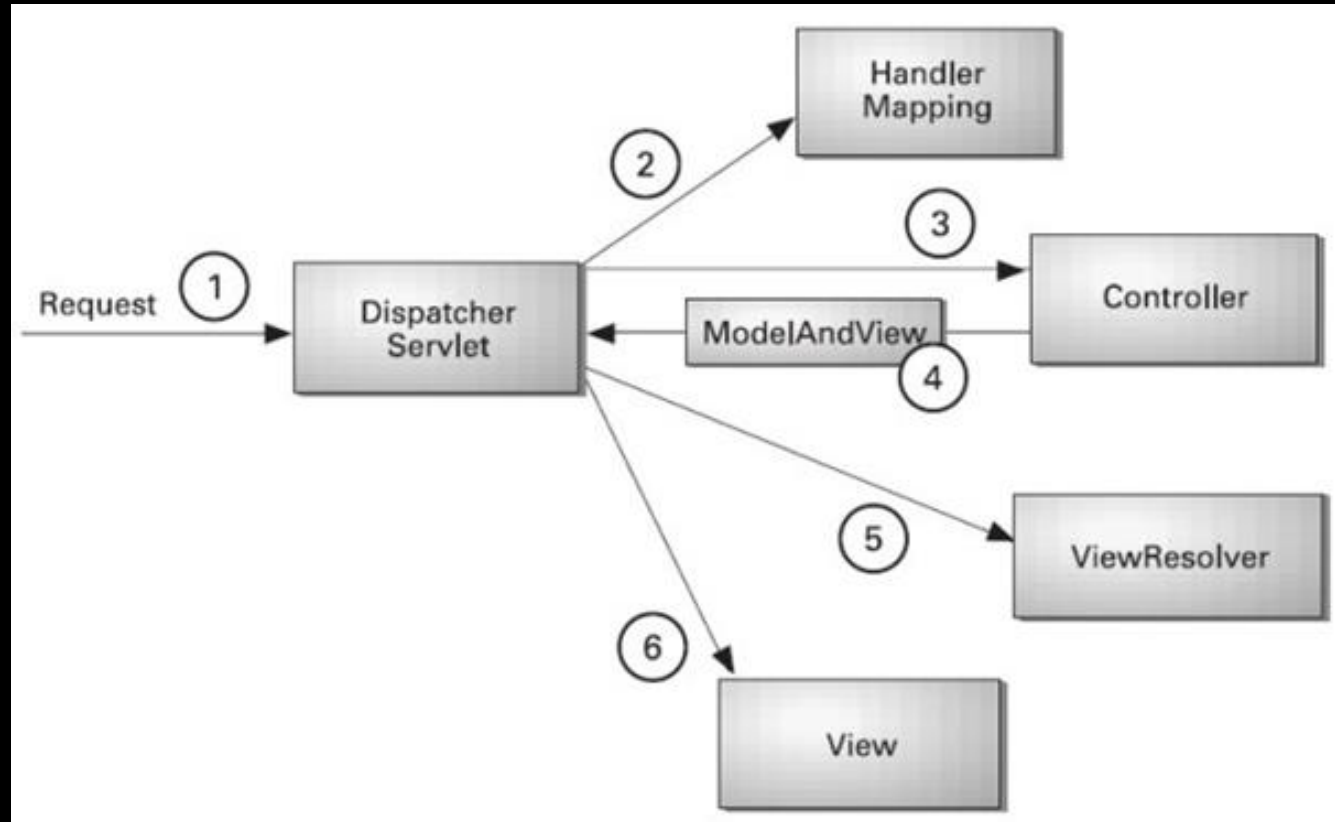
A Spring MVC is a Java framework which is used to build web applications. It follows the Model-View-Controller design pattern. It implements all the basic features of a core spring framework like Inversion of Control, Dependency Injection.

A Spring MVC provides an elegant solution to use MVC in spring framework by the help of **DispatcherServlet**. Here **DispatcherServlet** is a class that receives the incoming request and maps it to the right resource such as controllers, models, and views.

Spring Web Model- View- Controller

- **Model** - A model contains the data of the application. A data can be a single object or a collection of objects.
- **Controller** - A controller contains the business logic of an application. Here, the @Controller annotation is used to mark the class as the controller.
- **View** - A view represents the provided information in a particular format. Generally, JSP+JSTL is used to create a view page. Although spring also supports other view technologies such as Apache Velocity, Thymeleaf and FreeMarker.
- **Front Controller** - In Spring Web MVC, the DispatcherServlet class works as the front controller. It is responsible to manage the flow of the Spring MVC application.

Understanding the flow of Spring Web MVC



Abstract

- The college bookstore software projects that acts as a central database containing various books in stock along with their title and author . This project is a website that acts as a central book store for college.
- The database stores various book related details. A user visiting the website can see a wide range of books arranged in respective categories

Business Case

Student Module:

- Student register: User will be provided with a personal account through registration
- Reserve Books: Only verified users can able to view books and reserve the required Book from catalog.

Employee Module:

- The Employee module contains student information and Books information
- Can add and delete a book
- Can place new orders on the books
- Approves the reservation of books related to students

Admin Module:

- The administrative module includes an admin who acts as an intermediary between users and Employee
- Admin Login: Login with authorized username and passwords.
- Verify Employee & Users: The Administrator verifies new users and can change the role of application users based on requirements

Requirements

Hardware :

- i3 Processor Based Computer
- 1 GB RAM
- 50 GB Hard Disk

Software:

- Spring Tool Suite (STS)
- Maven
- H2 Database
- Browser

Pros and Cons

Pros:

- Only authorized and verified people can access the application.
- User friendly interface .
- Students can search for the required books before visiting the library.
- For Employees and Admin easy to maintain the information about books and students.
- Employee can easily change the information related to student and books

Cons:

- Some of details of books are not displayed
- Works only in internet connected systems

Outputs



Home Manage Accounts Logout

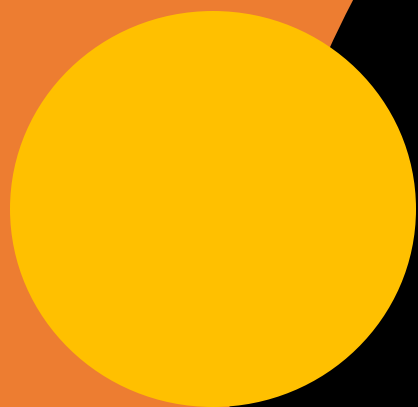
Manage Accounts

First Name kevin Last Name

Username	First Name	Last Name	Email	Phone Number	Address	City	Role	Select Account
user	Kevin	Leijnse	kevin.leijnse@gmail.com	06-18756892	Leidijk 97	Groningen	USER	<input type="button" value="Select"/>

Conclusion

- College bookstore has many advantages compared to its counterparts such as physical book store, the bookstore allows its user to shop at one place where in physical store the books are scattered at the different places which consumes a lot of time



Thank you