**5. Spring MVC**

**2. Spring MVC Components:**

• **Theory:**

1. **Controller: Handles HTTP requests and returns a response:-** A Controller in Spring MVC is responsible for handling HTTP requests (GET, POST, etc.), processing user input, interacting with the service layer, and returning a response (View or JSON).

**Handles HTTP Requests** – Maps URLs to methods using @RequestMapping, @GetMapping, and @PostMapping.

1. **Model: Holds the data to be displayed on the view:-** The Model in Spring MVC represents the data and business logic of an application. It holds the data that needs to be displayed on the View (UI) and interacts with the database or service layer.
2. **View: Renders the data from the model in a user-friendly format (e.g., JSP, Thymeleaf):-** The View in Spring MVC is responsible for displaying data from the Model in a user-friendly format. It is typically implemented using JSP, Thymeleaf, or other templating engines to create dynamic web pages.
3. **DispatcherServlet: Central servlet in Spring MVC that manages the request flow:-** DispatcherServlet is the central servlet in Spring MVC that handles all incoming HTTP requests, delegates them to the appropriate controllers, and manages the entire request-response flow.