## SpringMVCDemo

## Pom.xml

```
<dependency>
      <groupId>org.springframework
      <artifactId>spring-webmvc</artifactId>
      <version>6.2.5</version>
    </dependency>
    <dependency>
      <groupId>jakarta.servlet.jsp.jstl
      <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>
      <version>3.0.0</version>
    </dependency>
    <dependency>
      <groupId>org.springframework
      <artifactId>spring-aspects</artifactId>
      <version>6.2.5</version>
</dependency>
Web.xml
<servlet>
    <servlet-name>dispatcher</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <init-param>
      <param-name>contextClass</param-name>
      <param-value>
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      </param-value>
```

```
</init-param>
    <init-param>
      <param-name>contextConfigLocation</param-name>
      <param-value>in.ga.config.AppConfig</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
  </servlet>
  <servlet-mapping>
    <servlet-name>dispatcher</servlet-name>
    <url-pattern>/</url-pattern>
  </servlet-mapping>
Studentinfo.jsp
<%@ page contentType="text/html;charset=UTF-8" %>
<html>
<head><title>Student Info</title></head>
<body>
 <h2>${info}</h2>
</body>
</html>
display.jsp
<%@ page contentType="text/html;charset=UTF-8" %>
<html>
<head><title>Model Demo</title></head>
<body>
  <h2>${message}</h2>
</body>
```

```
</html>
LoggingAspect.java
package in.ga.aspect;
import org.aspectj.lang.JoinPoint;
import org.aspectj.lang.annotation.*;
import org.springframework.stereotype.Component;
@Aspect
@Component
public class LoggingAspect {
  @Before("execution(* in.ga.service.*.*(..))")
  public void logBefore(JoinPoint joinPoint) {
    System.out.println("Calling method: " + joinPoint.getSignature().getName());
  }
}
AppConfig.java
package in.ga.config;
import org.springframework.context.annotation.*;
import org.springframework.web.servlet.config.annotation.*;
import org.springframework.web.servlet.view.InternalResourceViewResolver;
@Configuration
@EnableWebMvc
@ComponentScan(basePackages = "in.ga")
@EnableAspectJAutoProxy
```

```
public class AppConfig implements WebMvcConfigurer {
  @Bean
  public InternalResourceViewResolver viewResolver() {
    InternalResourceViewResolver vr = new InternalResourceViewResolver();
    vr.setPrefix("/WEB-INF/views/");
    vr.setSuffix(".jsp");
    return vr;
  }
}
StudentController.java
package in.ga.controller;
import in.ga.service.StudentService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.*;
import org.springframework.ui.Model;
import org.springframework.web.servlet.ModelAndView;
@Controller
public class StudentController {
  @Autowired
  private StudentService studentService;
  @GetMapping("/student/{id}")
  public String getStudentById(@PathVariable("id") String id, Model model) {
```

```
model.addAttribute("info", studentService.getStudentInfo(id));
    return "studentinfo";
 }
  @GetMapping("/search")
  public String search(@RequestParam("name") String name, Model model) {
    model.addAttribute("info", "Searched student: " + name);
    return "studentinfo";
 }
  @GetMapping("/model")
  public String withModel(Model model) {
    model.addAttribute("message", "Hello from Model");
    return "display";
 }
  @GetMapping("/modelandview")
  public ModelAndView withModelAndView() {
    ModelAndView mv = new ModelAndView("display");
    mv.addObject("message", "Hello from ModelAndView");
    return mv;
 }
StudentService.java
package in.ga.service;
import org.springframework.stereotype.Service;
```

}

```
@Service
public class StudentService {
  public String getStudentInfo(String id) {
    return "Student ID: " + id + ", Name: Gaurav";
  }
}
```