

# Online Course enrollment System

## 1. Course.java

```
package com.enrollment.model;

public class Course {

    private String id;

    private String name;


    public Course() {}

    public Course(String id, String name) {

        this.id = id;

        this.name = name;

    }


    // Getters & Setters

}
```

---

## 2. Student.java

```
package com.enrollment.model;

public class Student {

    private String name;

    private String email;

    private String course;


    // Getters and Setters

}
```

---

### 3. CourseController.java

```
package com.enrollment.controller;

import com.enrollment.model.Course;
import com.enrollment.model.Student;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;
import java.util.*;

@Controller

public class CourseController {

    private List<Course> courseList = Arrays.asList(
        new Course("C101", "Java Basics"),
        new Course("C102", "Spring Framework"),
        new Course("C103", "Web Development")
    );

    @GetMapping("/courses")
    public String showCourses(Model model) {
        model.addAttribute("courses", courseList);
        return "courses";
    }

    @GetMapping("/enroll")
    public String showEnrollForm(Model model) {
        model.addAttribute("student", new Student());
        model.addAttribute("courses", courseList);
    }
}
```

```

        return "enroll";
    }

    @PostMapping("/submitEnrollment")
    public String submitEnrollment(@ModelAttribute("student") Student student, Model
model) {
        model.addAttribute("student", student);
        return "success";
    }
}

```

---

#### 4. AppConfig.java

```

package com.enrollment.config;

import org.springframework.context.annotation.*;
import org.springframework.web.servlet.config.annotation.*;
import org.springframework.web.servlet.view.*;

@Configuration
@EnableWebMvc
@ComponentScan(basePackages = "com.enrollment")
public class AppConfig implements WebMvcConfigurer {

    @Bean
    public InternalResourceViewResolver resolver() {
        InternalResourceViewResolver resolver = new InternalResourceViewResolver();
        resolver.setPrefix("/WEB-INF/views/");
        resolver.setSuffix(".jsp");
        return resolver;
    }
}

```

```
}  
}
```

---

## 5. web.xml

```
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"  
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee  
        http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"  
    version="4.0">  
  
    <servlet>  
        <servlet-name>dispatcher</servlet-name>  
        <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>  
        <init-param>  
            <param-name>contextClass</param-name>  
            <param-value>  
  
org.springframework.web.context.support.AnnotationConfigWebApplicationContext  
            </param-value>  
        </init-param>  
        <init-param>  
            <param-name>contextConfigLocation</param-name>  
            <param-value>com.enrollment.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>
</web-app>
```

---

## 6. courses.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<body>
<h2>Available Courses</h2>
<ul>
    <c:forEach var="course" items="${courses}">
        <li>${course.name}</li>
    </c:forEach>
</ul>
<a href="enroll">Enroll Now</a>
</body>
</html>
```

## 7.enroll.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<body>
<h2>Enrollment Form</h2>
<form action="submitEnrollment" method="post">
    Name: <input type="text" name="name"/><br/>
```

Email: <input type="email" name="email"/><br/>

Course:

```
<select name="course">
    <c:forEach var="course" items="${courses}">
        <option value="${course.name}">${course.name}</option>
    </c:forEach>
</select><br/>
<input type="submit" value="Submit"/>
```

```
</form>
```

```
</body>
```

```
</html>
```

## 8.success.jsp

```
<html>
```

```
<body>
```

```
<h2>Enrollment Successful!</h2>
```

```
<p>Name: ${student.name}</p>
```

```
<p>Email: ${student.email}</p>
```

```
<p>Enrolled Course: ${student.course}</p>
```

```
</body>
```

```
</html>
```

---

## 9. pom.xml

```
<dependencies>
```

```
    <dependency>
```

```
        <groupId>org.springframework</groupId>
```

```
        <artifactId>spring-webmvc</artifactId>
```

```
        <version>5.3.33</version> <!-- latest compatible with Java 17 -->
```

```
</dependency>
<dependency>
  <groupId>javax.servlet</groupId>
  <artifactId>javax.servlet-api</artifactId>
  <version>4.0.1</version>
  <scope>provided</scope>
</dependency>
<dependency>
  <groupId>javax.servlet.jsp.jstl</groupId>
  <artifactId>jstl-api</artifactId>
  <version>1.2</version>
</dependency>
<dependency>
  <groupId>taglibs</groupId>
  <artifactId>standard</artifactId>
  <version>1.1.2</version>
</dependency>
</dependencies>
```

---