

## **JavaServer Pages (JSP) Learning Roadmap**

### **1. Introduction to JSP**

- Overview of JSP and its role in Java web applications.
- Difference between Servlets and JSP.
- Lifecycle of a JSP page.

### **2. JSP Syntax Basics**

- JSP elements: Directives, Scriptlets, Expressions, and Declarations.
- Using HTML and JSP together.

### **3. Handling Requests and Responses**

- Using request and response objects in JSP.
- Accessing request parameters.

### **4. JSP Implicit Objects**

- Overview of implicit objects (e.g., request, response, session, application).
- Common use cases for implicit objects.

### **5. JSP Directives**

- Page directive: setting attributes like content type, error page.
- Include directive: including other resources.
- Taglib directive: using custom tag libraries (JSTL).

### **6. Expression Language (EL)**

- Using EL for simplified access to data in JSP.
- Basic syntax and use cases.

### **7. JSP Standard Tag Library (JSTL)**

- Using core JSTL tags for common tasks like iteration, conditionals, and formatting.

### **8. Error Handling in JSP**

- Configuring custom error pages in web.xml.
- Handling exceptions within JSP.

## **9. Session Management**

- Managing sessions in JSP using `session` implicit object.
- Handling cookies and session tracking.

## **10. JSP Best Practices**

- Avoiding Java code in JSP (Model-View-Controller pattern).
- Writing clean and maintainable JSP code.