### **Deploy Java Spring Boot App to Tomcat (XAMPP)**

Spring Boot applications can be deployed on Apache Tomcat that comes with XAMPP by converting the app into a WAR (Web Application Archive) instead of a JAR.

1. Convert Spring Boot App to WAR

Spring Boot applications by default create an executable JAR. We need to package it as a WAR to deploy it on XAMPP Tomcat.

### Modify pom.xml

Update pom.xml to switch from JAR to WAR:

#### Create a ServletInitializer Class

Inside your main package, create ServletInitializer.java:

```
import org.springframework.boot.builder.SpringApplicationBuilder;
import org.springframework.boot.web.servlet.support.SpringBootServletInitializer;
import com.example.demo.DemoApplication; // Change to your main class

public class ServletInitializer extends SpringBootServletInitializer {
    @Override
    protected SpringApplicationBuilder configure(SpringApplicationBuilder application) {
        return application.sources(DemoApplication.class);
    }
}
```

#### **Build the WAR File**

Run the following Maven command:

mvn clean package

<sup>\*</sup>This is needed to configure the Spring Boot application when running as a WAR inside Tomcat.

This will create:

target/demo-0.0.1-SNAPSHOT.war

2. Deploy WAR to XAMPP Tomcat

## **Locate XAMPP Tomcat Webapps Directory**

Find your XAMPP installation directory, typically:

C:\xampp\tomcat\webapps

# Copy WAR File

Move the generated WAR file into webapps:

C:\xampp\tomcat\webapps\demo.war

## **Start Tomcat from XAMPP Control Panel**

- a. Open XAMPP Control Panel, start Apache and Tomcat
- b. Tomcat will auto-deploy the demo.war file and extract it into webapps/demo/
- 3. Access the Application

http://localhost:8080/demo/

If you have a controller like:

```
@RestController
@RequestMapping("/api")
public class HelloController {
    @GetMapping("/hello")
    public String hello() {
      return "Hello from Spring Boot in XAMPP Tomcat!";
    }
}
```

You can access it at:

http://localhost:8080/demo/api/hello

4. Troubleshooting

#### 404 Not Found

- Ensure Tomcat is running (http://localhost:8080/ should load Tomcat's default page).
- Check webapps/demo/WEB-INF/web.xml exists (means deployment worked).
- Restart XAMPP and try again.

#### **Application Won't Start**

Check Tomcat logs:

C:\xampp\tomcat\logs\catalina.out

Make sure the WAR file is not inside a subfolder (webapps/demo.war, NOT webapps/demo/demo.war).