## **SOAP**

## Set Up a Spring Boot Project

First we need to Create a new Project for SOAP API & some Dependency is mandatory for SOAP :

- Spring Web Services (for SOAP support)
- Spring Boot Starter Web (if needed for REST controllers)
- JAXB (for XML processing)

## Go to Pom.xml file and dependency

After Creation Go to inside the dependency file and add manual dependency:

### Path of xsd file

XML/XSD File to define the structure of SOAP requests and responses. It is Create inside the following path, it will automatically export as a WSDL. This schema will define elements like GetUserRequest, GetUserResponse.

Src/main/resources/<your\_file\_name.xsd>Write code inside xsd file

#### Go to Pom.xml file

After Creation of XSD File go to pom.xml(dependencies file) and inside the build section add plugins that contain the path of XSD file and output directory.

### Generate Java Classes from XSD

Use JAXB to generate Java classes from the XSD.

This allows Spring Boot to handle XML conversion automatically.

### Run JAXB Code Generation

mvn jaxb2:generate

# Verify Generated Java Classes

The Java classes will be generated inside: target/generated-sources/jaxb/com/example/soap/model/

## Implementation

Create service/config/endpoint .... Package and Class

## For Testing API:

Endpoint: <Hostname>:<port no>/url/<bean name>.wsdl

**Open:** SOAP UI Application > click on soap > paste endpoint in initial wsdl > OK > open projects (top left) > click on soap request > put data on code > run

Check on right side in xml pop-up