# Introduction

In this section, we will create a **Java** **SOAP** client project and use **Apache** **CXF** to come up with a **Java** client that will communicate with our **WSDL** **FIRST** customer order service. This can be done in five simple steps:

1. Creating a **spring** **boot** the project and adding the **Apache** **CXF** dependency to it.
2. We will retrieve the WSDL from the browser by running our server side application (save it locally).
3. We will generate the Java Stubs (less code to write).
4. Once we have the stubs, we will create the client in two simple steps.
5. Finally, we will run our project in order to look on it.

# Create the Java Client Project

# Retrieve the WSDL

# Generate the Stubs

# Implement the client

The process of creation of a customer orders web services client are:

1. We create an instance of the service class.
2. We pass the **WSDL** **URL** as a parameter for the previous instance.
3. We get the port out of it (the portType that wraps all the operations).
4. We use the portType to invoke the operations by passing in the appropriate request.
5. We get the appropriate operation response.
6. We process the response as required and as our needs.

# Assignment

In this lecture, we are going to invoke he create method by passing and order object with a customer id to create request.

# Flow and the Service Provider Mechanism

In this lecture, we will demystify what is going on behind the scenes and how this whole thing is working.

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| 1 | Creation of the customer orders service stub |
| The constructor of the previous calls the super constructor. (Along with WSDL location and SERVICE “CustomerOrdersService” along with the namespace). |
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# Develop a Web Service Consumer

# Section Summary

In this lecture, we have created a SOAP client for the order processing web service.