## **Proxy Server Settings**

In this lesson, we will learn how to add a proxy setting to the SOAP web service client.

## We'll cover the following What is a proxy server? Adding a proxy setting to WebServiceTemplate

## What is a proxy server? #

A proxy server is an intermediary server that is virtually located between the client and the server. All the service requests are sent to the actual server via proxy servers.

## Adding a proxy setting to WebServiceTemplate #

We have already learned in the **Sending requests using SOAP client** lesson how to create a **WebServiceTemplate** that can be used to make web service calls.

This lesson is an extension of that part and here, we will add proxy settings to the created WebServiceTemplate with the following code:

```
import javax.annotation.PostConstruct;
import org.apache.http.HttpHost;
import org.apache.http.client.config.RequestConfig;
import org.apache.http.impl.client.CloseableHttpClient;
import org.apache.http.impl.client.HttpClients;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.oxm.jaxb.Jaxb2Marshaller;
import org.springframework.util.ClassUtils;
import org.springframework.ws.client.core.WebServiceTemplate;
import org.springframework.ws.transport.WebServiceMessageSender;
import org.springframework.ws.transport.http.HttpComponentsMessageSender;
import io.educative.soap_automation.GetStudentsRequest;
```

```
@Configuration
public class WebServiceClient {
    private final Jaxb2Marshaller marshaller = new Jaxb2Marshaller();
    private final static String PROXY SERVER = "proxyhost";
    @PostConstruct
    public void init() throws Exception {
        marshaller.setPackagesToScan(ClassUtils.getPackageName(GetStudentsRequ
est.class));
        marshaller.afterPropertiesSet();
    }
    @Bean
    public WebServiceTemplate getWebServiceTemplate() {
        WebServiceTemplate webServiceTemplate = new WebServiceTemplate(marshal
ler);
        webServiceTemplate.setMessageSender(getMessageSender());
        return webServiceTemplate;
    }
    private WebServiceMessageSender getMessageSender() {
        RequestConfig config = RequestConfig
                .custom()
                .setProxy(new HttpHost(PROXY_SERVER))
                .build();
        CloseableHttpClient client = HttpClients
                .custom()
                .setDefaultRequestConfig(config)
                .build();
        return new HttpComponentsMessageSender(client);
   }
```

In the example above, we create an instance of Apache HttpClient to which we add the proxy settings, since we are considering sending all the requests to the web service over HTTP.

This instance of Apache HttpClient is used to create an instance of HttpComponentsMessageSender which is used to interact with the web service over HTTP. This instance is set to WebServiceTemplate as seen in the code snippet below:

WebServiceTemplate webServiceTemplate = new WebServiceTemplate(marshaller);
webServiceTemplate.setMessageSender(getMessageSender());

In this lesson, we learned how to create the WebServiceTemplate with proxy settings. Let us quickly take a quiz to see how much you understand about SOAP automation.