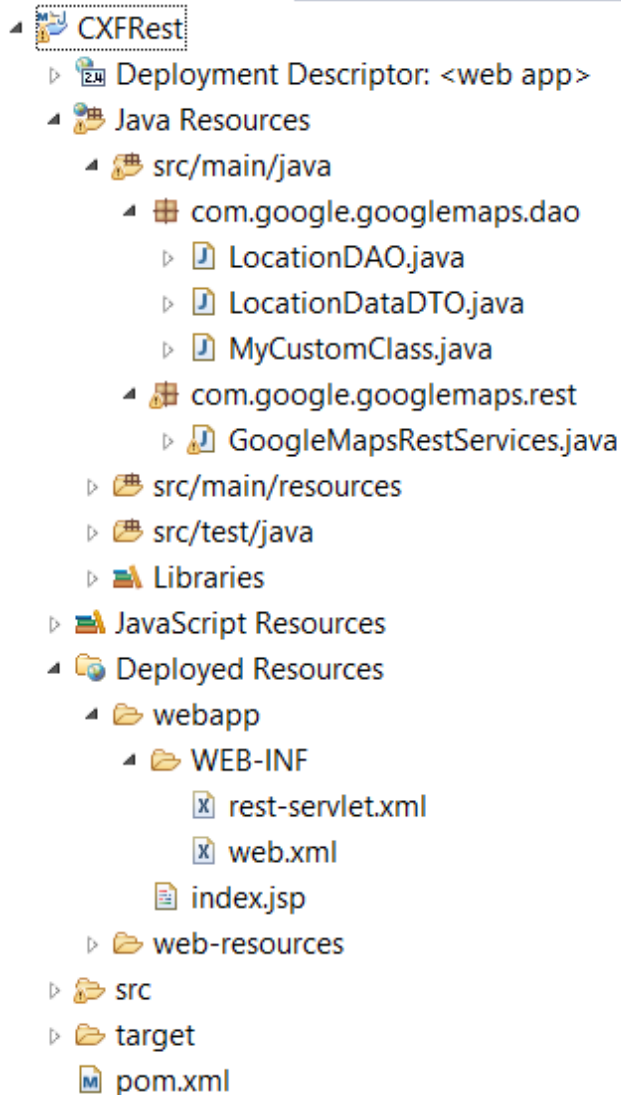# CFX Framework:

Project Structure:

Note: All the Previous codes we are using in the program will remain the same; we only have to make changes to web.xml and add one more rest-servlet.xml inside WEB-INF.

And make sure to add the CXF-dependencies in the pom.xml

Dependencies:

```xml
<dependency>
    <groupId>org.apache.cxf</groupId>
    <artifactId>cxf-bundle-jaxrs</artifactId>
    <version>2.2.9</version>
</dependency>

<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>servlet-api</artifactId>
    <version>2.5</version>
</dependency>
```

rest-servlet.xml Configuration:

CXF uses a spring based configuration for registering its webservice endpoints so let us create a **rest-servlet.xml** in WEB-INF and after that configure the CXF in web.xml:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:cxf="http://cxf.apache.org/core"
     xmlns:jaxws="http://cxf.apache.org/jaxws"
xmlns:jaxrs="http://cxf.apache.org/jaxrs"
     xsi:schemaLocation="
               http://cxf.apache.org/core
http://cxf.apache.org/schemas/core.xsd
                  http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans.xsd
               http://cxf.apache.org/jaxrs
http://cxf.apache.org/schemas/jaxrs.xsd
               http://cxf.apache.org/jaxws
http://cxf.apache.org/schemas/jaxws.xsd">

    <import resource="classpath:META-INF/cxf/cxf.xml" />
    <import resource="classpath:META-INF/cxf/cxf-servlet.xml"
/>
    <import resource="classpath:META-INF/cxf/cxf-extension-
jaxrs-binding.xml" />

    <cxf:bus>
        <cxf:features>
            <cxf:logging />
        </cxf:features>
    </cxf:bus>

    <bean id="googleMapsRestServices"
class="com.google.googlemaps.rest.GoogleMapsRestServices"/>
    <jaxrs:server id="googleMapsRest_Services" address="/cxf">
        <jaxrs:serviceBeans>
            <ref bean="googleMapsRestServices" />
        </jaxrs:serviceBeans>
    </jaxrs:server>
</beans>
```

Web.xml Configuration:

```xml
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
        http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
    version="2.5">
    <listener>
        <listener-class>
org.springframework.web.context.ContextLoaderListener
        </listener-class>
    </listener>

    <context-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>WEB-INF/rest-servlet.xml</param-value>
    </context-param>

    <servlet>
        <servlet-name>CXFServlet</servlet-name>

        <servletclass>org.apache.cxf.transport.servlet.CXFServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>CXFServlet</servlet-name>
        <url-pattern>/rest/*</url-pattern>
    </servlet-mapping>
</web-app>
```