This document will guide through to build and run the exercise.

1. The following steps describe how to build and run the **Java REST Server**
   1. Unzip the restserverweb.zip file, restserverweb folder would be generated. This folder contains the source code.
   2. First **server.properties** file should be modified before build the source code. The location of server.properties file is **\restserverweb\src\main\resources**

Here is the server.properties file details –

* **websocket.port** – a port number should be provided here. A websocket will be started on this port.
* **csvfile.path** – This is the path of csv file along with file name. This file will be generated after reading the excel file.

*Note***:** All properties are mandatory.

* 1. Build the source code, go to the \restserverweb folder and run the command – **mvn clean package**

Then it will generate the target folder and **restserverweb.war** file inside this folder.

* 1. Then deploy the war file in any web server and run the server.

We can check if application has been started successfully by typing the url in browser –

**http://<host>:<port>/restserverweb/** - a page will open in the browser with “Hello World!” message.

1. The following steps describe how to build and run the **Java REST Client**
   1. Unzip the restclient.zip file, then it will generate restclient folder and client.properties file. The restclient folder contains the source code.
   2. Update the client.properties file. Here is the details of client.properties file –

* **server.websocket.port** – This is port number where server websocket is listening.
* **server.ws.ip** – This is the ip of the server.
* **server.ws.port** – This is the port of the server.
* **excelfile.path** – This is the path of excel file along with file name. This excel file will get uploaded in the server.

*Note***:** All properties are mandatory.

* 1. Build the source code, go to the \restclient folder and run the command – **mvn clean package**

Then it will generate the target folder and **restclient-jar-with-dependencies.jar** file along with other files inside this folder. The restclient-jar-with-dependencies.jar file is an executable jar file.

* 1. Then copy the **restclient-jar-with-dependencies.jar** and **client.properties** files and keep in a location (***both files must be kept in same folder***). To run the client program, open a command prompt and go to the folder where both files are located. Then execute the command: ***java -jar restclient-jar-with-dependencies.jar***

We can see the all the sales records are printed in the command prompt.