RDMSim Exemplar: Installation Guide

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1   Introduction

In this document, the installation details of the *RDMSim* Exemplar are provided. The document is organized as follows: In Section 2, the details about downloading the *RDMSim* are provided. Section 3 provides the installation details of the required libraries.

2   Download RDMSim Exemplar

First of all download the *RDMSim* package using the following link and unzip the *RDMSim Package* folder.

```
https://gitlab.com/humasamin/rdmsimexemplar
```

3   Required Libraries

In order to execute the *RDMSim* software, the following two libraries are required:

3.1   JavaFx

Use the following steps to install the JavaFx library:

Step: 1

Download the JavaFx SDK using the link as follows:

```
https://gluonhq.com/products/javafx/
```

Step: 2

Once the SDK is downloaded. Unzip the downloaded *javafx* folder and copy the unzipped folder to some directory.

Step: 3

Open Eclipse IDE and open the *RDMNetwork* project in Eclipse from the Source folder of the *RDMSim Package* as follows:

```
File->Open Projects from File System.
```

The *RDMNetwork* project will be loaded in the Project Explorer pane.

Step: 4

Add JavaFx library to the project as follows:

Right Click on the *RDMNetwork* project – Select Configure Build Path as shown in Fig 1. The properties dialog box will be displayed next as shown in Fig 2.
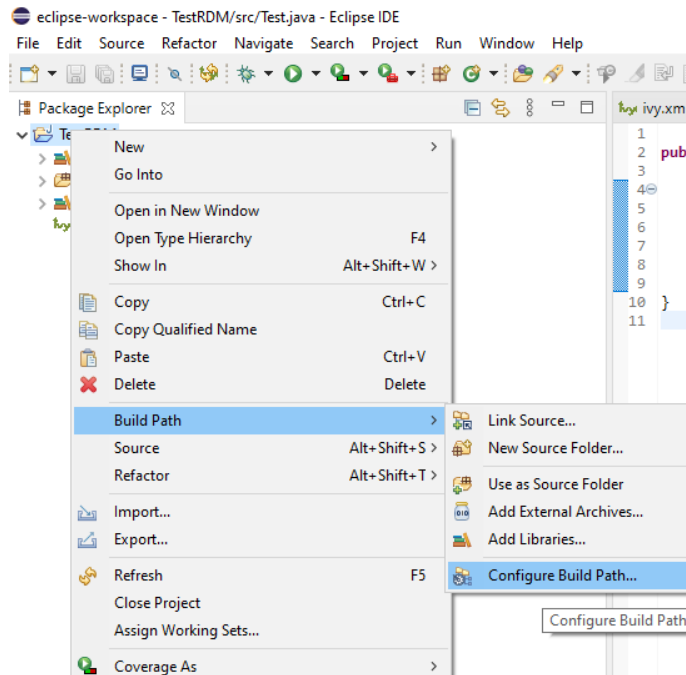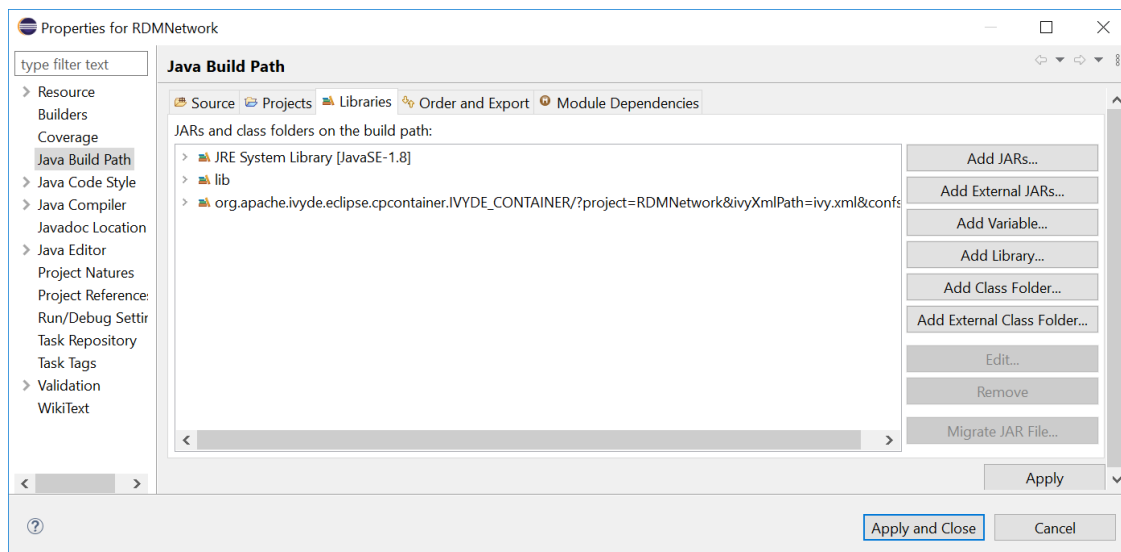
Figure 1: Add JavaFX Library

Figure 2: Properties Dialog

Step: 5

Go to Libraries tab–Click on Add Library – Add Library Dialog will be displayed as shown in Fig 3. Select User Library and Click Next.
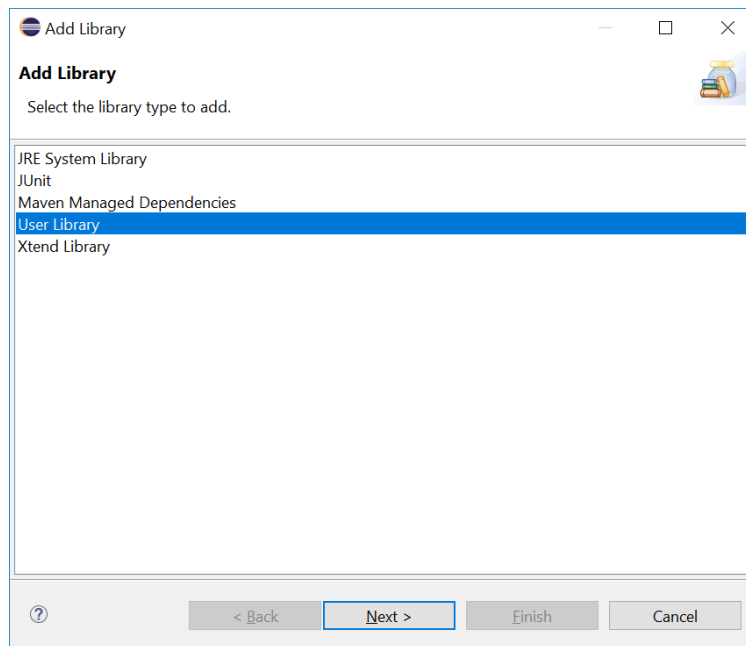

Figure 3: Add User Library

Step: 6

Select User Libraries–Click New, Write "javafx" as the library name and add External Jars to the library from the javafx folder created in Step 2 as shown in Fig 4 and 5 respectively.
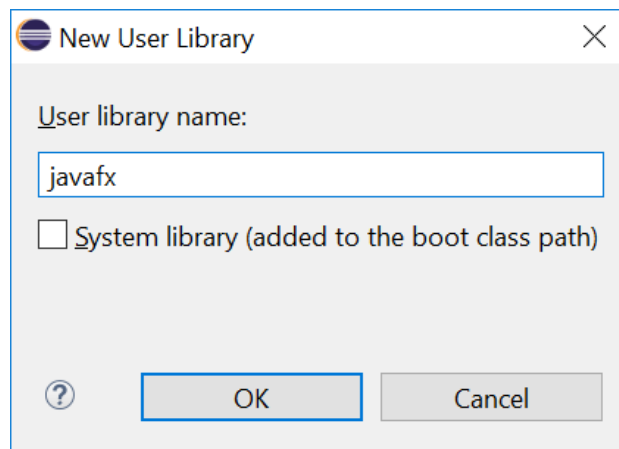

Figure 4: Add User Library

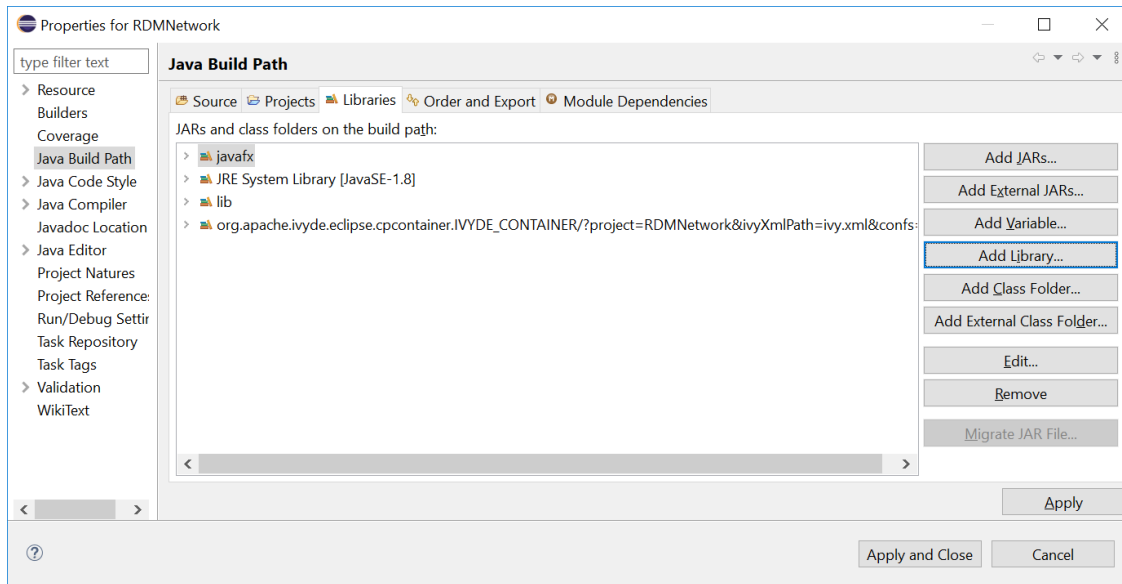Once the library is created add it to the project and click Apply and Close.

Figure 5: Add JavaFX Library

Step: 7

Use the following options in VM arguments when running the *RDMNetwork* Application.

`Click on  Run ->Run Configuration`

The Run Configuration dialog box will be displayed as shown in Fig 6.
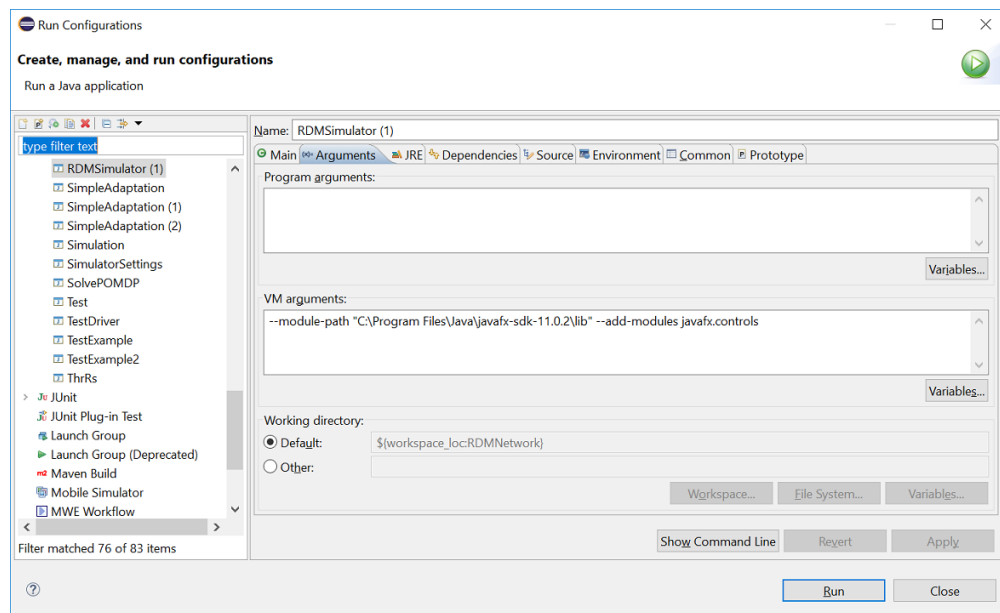

Figure 6: Run Configuration Dialog

Add the module-path (path to the javafx directory that you have downloaded) to VM arguments as follows:

```
--module-path path to javafx directory\javafx-sdk\lib --add-modules=javafx.controls
```

If you directly click on Run (at least in Windows with Eclipse), the setting will not save for module path and you'll have a non-running program.

3.2   JSON Library

Add the JSON library using the following steps:

Step: 1

Right click on the *RDMNetwork* project – Select Build Path – Select Configure Build Path. The Properties dialog box will be displayed.
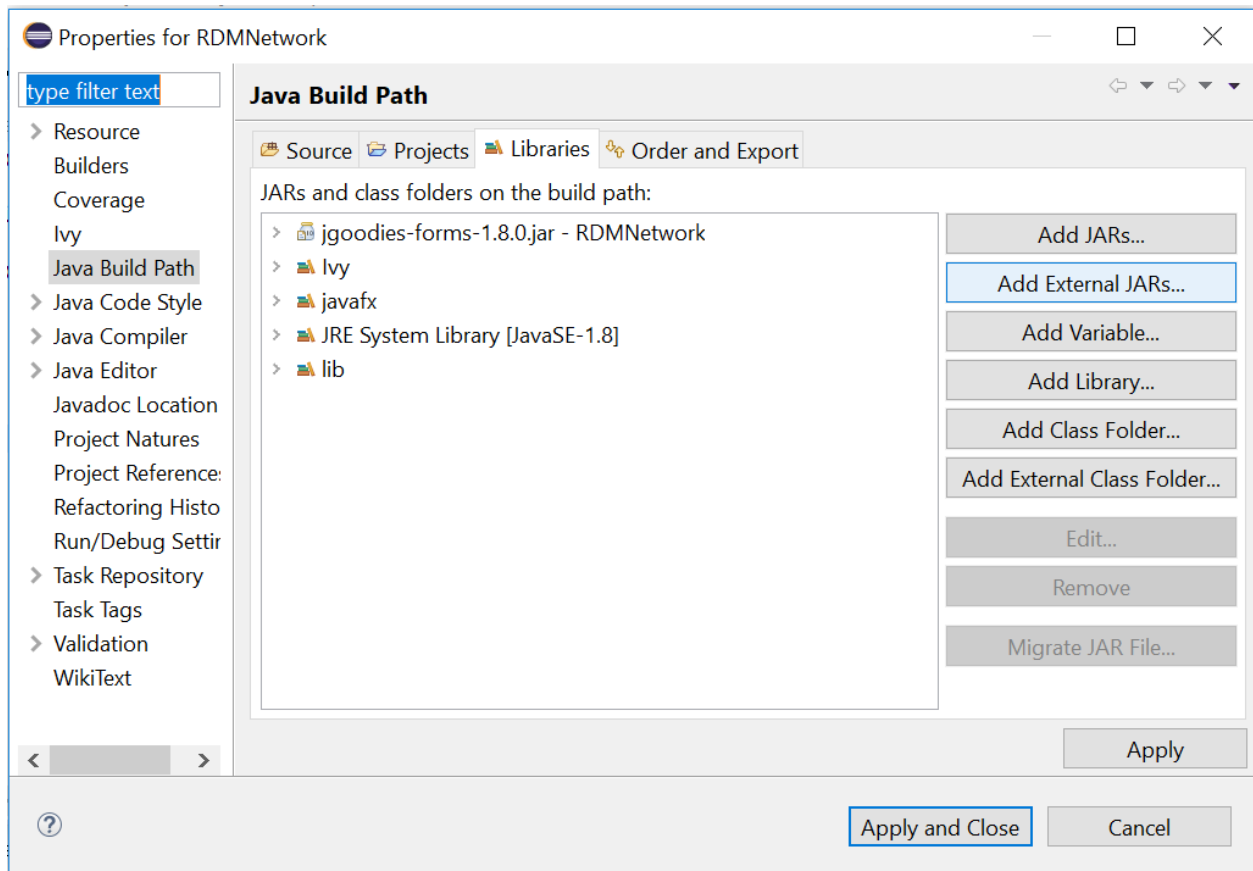

Figure 7: Add JSON Library as External Jar

Step: 2

Go to Library tab and Add the *json-simple1.1.jar* file from the *JAR Files* folder of the *RDMSim Package* using the Add External Jars option as shown in Fig 7.

Now the *RDMNetwork* project is ready to be executed.