

Preparing for REST Development

At the IntelliJ IDEA level, REST development is supported through the *WebServices* plugin. The plugin is bundled with IntelliJ IDEA and enabled by default. If not, enable the plugin in the [Plugin Configuration Wizard](#) or in the [Plugins](#) page of the [Settings](#) dialog box.

REST development in a module does not require any specific module structure or configuration files. Actually, it is a plain [Java module](#) with [Jersey reference implementation](#) [.jar](#) files configured as [libraries](#).

To enable REST development, create a project with a module for REST from scratch, or add a REST module to a project, or attach a REST Web Service facet to an existing module.

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- [Creating a project with a module for REST from scratch](#)
- [Adding a module to an existing project](#)
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Creating a project with a module for REST from scratch

1. Start creating a project from scratch. Do one of the following:
 - If no project is currently opened in IntelliJ IDEA, click **Create New Project** on the **Welcome** screen.
 - If you already have an opened project, choose **File | New Project** on the main menu. The New Project Wizard starts.
2. On the **Main Settings** page, choose **Java Module** in the **Java** area.
 1. In the right-hand pane, specify the project name, location, and the location of the [JDK to use in the project](#).
 2. In the **More Settings** area, specify the module name, the location of the [content root folder](#) and of the [module .iml file](#).Click **Next**.
3. On the [Technologies page](#) that opens, select the **RESTful WebServices** check box.
4. In the **Libraries** area, appoint the .jar files to use:
 - To use previously downloaded .jar files configured as a library, choose the **Use Library** option and select the relevant library from the drop-down list.
 - To use previously downloaded .jar files that have not been arranged in a library yet, choose the **Use Library** option, click the **Create** button, and then select the relevant .jar files.

By default, IntelliJ IDEA assigns the library the name `JAX-RS` and configures it at the *project level*, whereupon the library can be used in the current module and in all other modules of the current project. To be re-used in any IntelliJ IDEA project, a library should be configured as *global*. A *module* library will be available in the current module only.

To edit the default settings and possibly attach other .jar files, click the **Configure** button and re-configure the library in the **Create Library** dialog box that opens. For more details about library levels and configuring libraries, see the topics [Configuring Module Dependencies and Libraries](#) and [Configuring Project and Global Libraries](#) .
 - To have IntelliJ IDEA download the relevant files, choose the **Download** option.

By default, when you click **Finish**, IntelliJ IDEA will download the entire [Jersey reference implementation](#) version 1.12, configure it as a project library named `JAX-RS-jersey-1.12`, and store it in the `lib` folder. To have another version downloaded or change these default settings, click the **Configure** button and set up the library as you need in the **Downloading Options** dialog box that opens:

 - Choose the relevant implementation from the **Version** drop-down list.
 - Specify the library name and level.
 - Specify the .jar files to download by selecting the check boxes next to the relevant files.
 - Specify the folder to store the new library in.
 - To have the module created without the REST implementation classes, possibly to use a previously configured *global* library, choose the **Set up library later** option.
5. Specify whether you want IntelliJ IDEA to generate the code for a sample application.
 - To have the server side application code, select the **Generate server code sample** check box.
 - To have the client side application code, select the **Generate client code sample** check box.

For more details, see the topic [Coding Assistance for REST Development](#).

Adding a module to an existing project

1. Choose **File | New Module** on the main menu or **New | Module** on the context menu of the **Project** tool window. The New Project Wizard starts.
2. On the **Main Settings** page, choose **Java Module** in the **Java** area.
 1. In the right-hand pane, specify the module name, the location of the [content root folder](#), of the [module .iml file](#), and the location of the [JDK to use in the module](#).
 2. To have a separate folder for source files created, expand the **More Settings** area, select the **Create source root** check box, and specify the location of the folder in the text box.Click **Next**.
3. On the [Technologies page](#) that opens, select the **RESTful WebServices** check box.
4. In the **Libraries** area, appoint the .jar files to use:

- To use previously downloaded .jar files configured as a library, choose the **Use Library** option and select the relevant library from the drop-down list.
- To use previously downloaded .jar files that have not been arranged in a library yet, choose the **Use Library** option, click the **Create** button, and then select the relevant .jar files.

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- To have IntelliJ IDEA download the relevant files, choose the **Download** option.

By default, when you click **Finish**, IntelliJ IDEA will download the entire [Jersey reference implementation](#) version 1.12, configure it as a project library named `JAX-RS-jersey-1.12`, and store it in the `lib` folder. To have another version downloaded or change these default settings, click the **Configure** button and set up the library as you need in the **Downloading Options** dialog box that opens:

 - Choose the relevant implementation from the **Version** drop-down list.
 - Specify the library name and level.
 - Specify the .jar files to download by selecting the check boxes next to the relevant files.
 - Specify the folder to store the new library in.
- To have the module created without the REST implementation classes, possibly to use a previously configured *global* library, choose the **Set up library later** option.

5. Specify whether you want IntelliJ IDEA to generate the code for a sample application.
 - To have the server side application code, select the **Generate server code sample** check box.
 - To have the client side application code, select the **Generate client code sample** check box.

For more details, see the topic [Coding Assistance for REST Development](#).

Attaching a RESTful WebServices facet to an existing module

1. Open the [Project Structure](#) dialog box.
2. Under **Project Settings**, select **Modules**.
3. Select the module you want to add an Android facet to, click **+**, and choose **RESTful WebServices**. The **Add RESTful WebServices Support** dialog box opens.
4. In the **Libraries** area, appoint the .jar files to use:
 - To use previously downloaded .jar files configured as a library, choose the **Use Library** option and select the relevant library from the drop-down list.
 - To use previously downloaded .jar files that have not been arranged in a library yet, choose the **Use Library** option, click the **Create** button, and then select the relevant .jar files.

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- Choose the relevant implementation from the **Version** drop-down list.
 - Specify the library name and level.
 - Specify the .jar files to download by selecting the check boxes next to the relevant files.
 - Specify the folder to store the new library in.
 - To have the module created without the REST implementation classes, possibly to use a previously configured *global* library, choose the **Set up library later** option.
5. Specify whether you want IntelliJ IDEA to generate the code for a sample application.
 - To have the server side application code, select the **Generate server code sample** check box.
 - To have the client side application code, select the **Generate client code sample** check box.

For more details, see the topic [Coding Assistance for REST Development](#).

See Also

Concepts:

- [RESTful WebServices](#)
- [Artifact](#)

Procedures:

- [Enabling Web Service Development Support](#)

- [Java EE](#)

Reference:

- [Web Services Reference](#)
- [REST Client Tool Window](#)
- [Web Services Facet Page](#)
- [Artifacts](#)

Web Resources:

- [Developer Community](#) 