The Scout "Hello World!"

Scout Team

Version 10.0

Table of Contents

Create a Scout Project 1
Run the Application 4
What's Next? 6

After installing the Eclipse Scout package you are now ready to create your first Scout application.

Create a Scout Project

Start your Eclipse IDE and select an empty directory for your workspace as shown in Figure 1. This workspace directory will then hold all the project code for the `Hello World` application. Once the Eclipse IDE is running it will show the Java perspective.

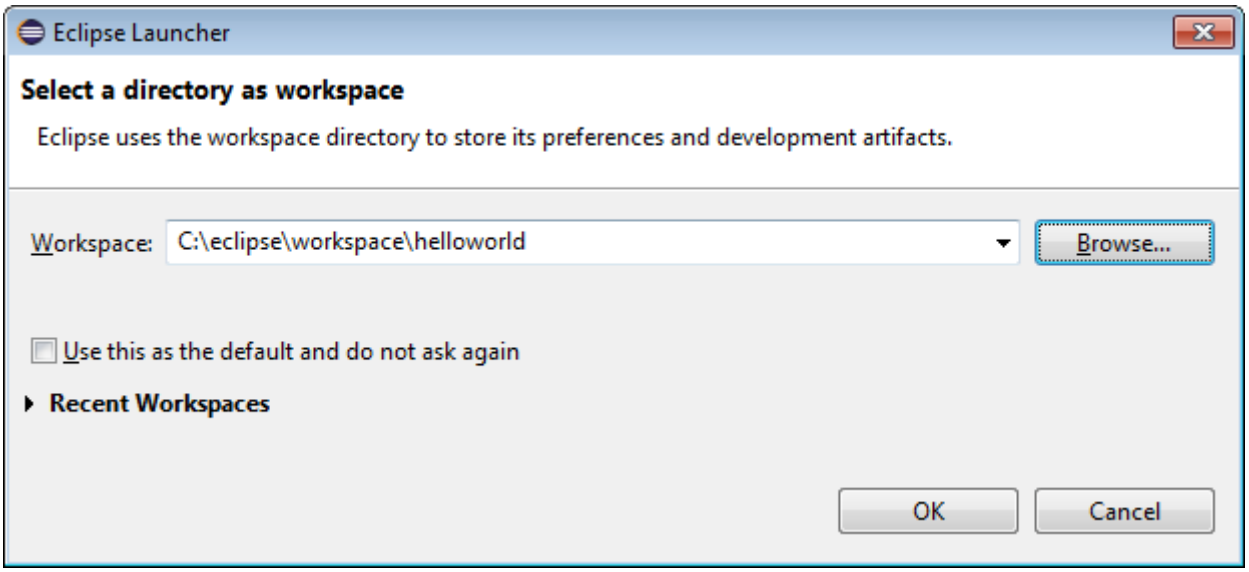

Figure 1. Select a new empty folder to hold your project workspace

To create a new Scout project select the menu **File › New › Project...** and type “Scout Project” in the wizard search field. Select the Scout Project wizard and press **[Next]**. The *New Scout Project* wizard is then started as shown in Figure 2.

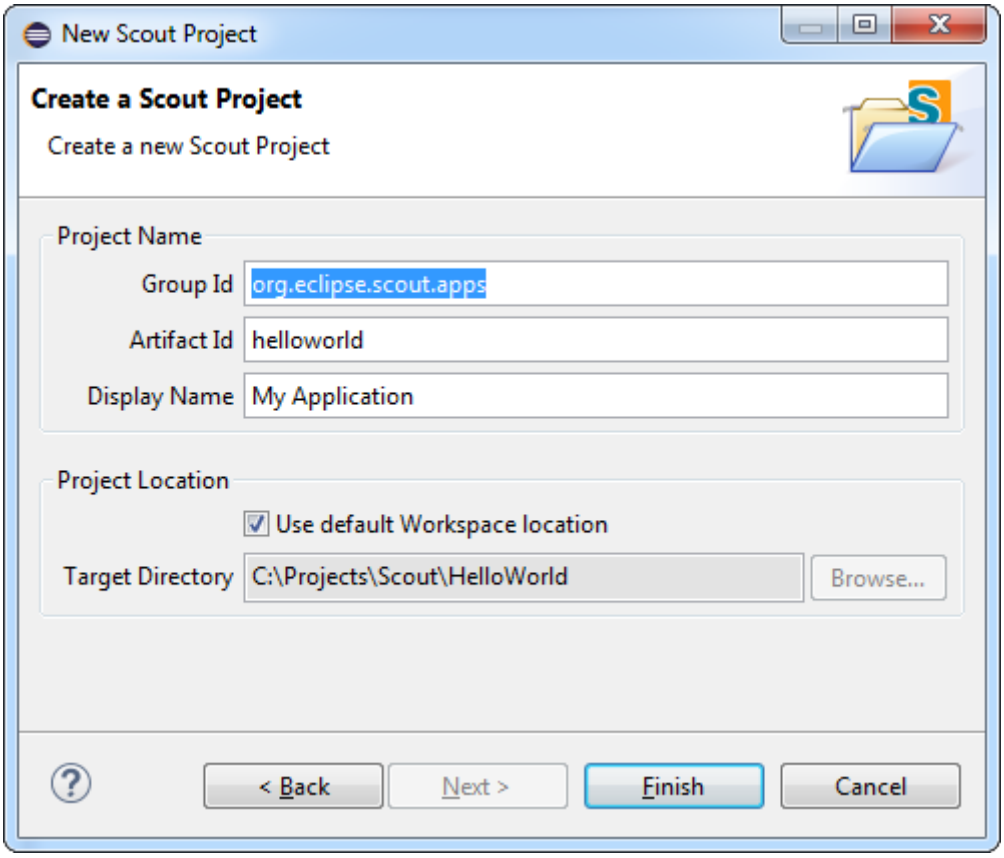

Figure 2. The new Scout project wizard.

In the *New Scout Project* wizard you have to enter a `group id`, `artifact id` and a `display name` for your Scout project. As the created project will make use of Apache Maven please refer to the Maven naming conventions to choose `group id` and `artifact id` for your project. The `artifact id` will then also be the project name in the Eclipse workspace. The `display name` is used as the application name presented to the user (e.g. in the Browser title bar).

For the `Hello World` application just use the already prefilled values as sown in Figure 2. Then, click the **[Finish]** button to let the Scout SDK create the initial project code for you.

Depending on your Eclipse installation some `Maven plugin connectors` may be missing initially. In that case a dialog as shown in Figure 3 may be shown. To continue click on **[Finish]** to resolve the selected connectors. Afterwards confirm the installation, accept the license and the message that some content has not been signed. Finally, the installation of the maven plugin connectors requires a restart of the Eclipse IDE.

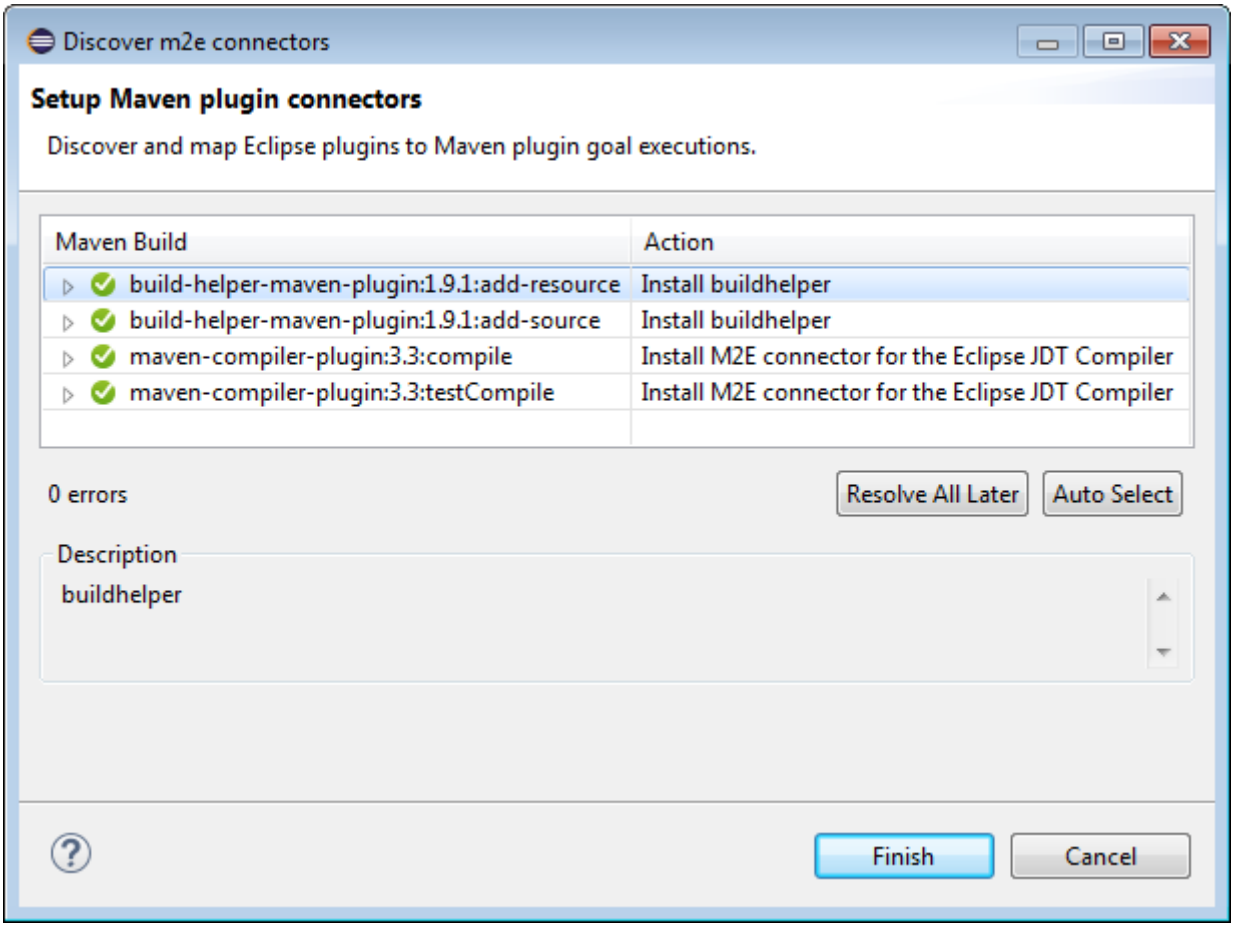

Figure 3. The Maven plugin connector installation dialog.

After the *New Scout Project* wizard has created the initial Maven modules for the `Hello World` application these modules are compiled and built by the Eclipse IDE. In case of a successful Eclipse Scout installation your Eclipse IDE should display all created Maven modules in the Package Explorer and have an empty Problems view as shown in Figure 4.

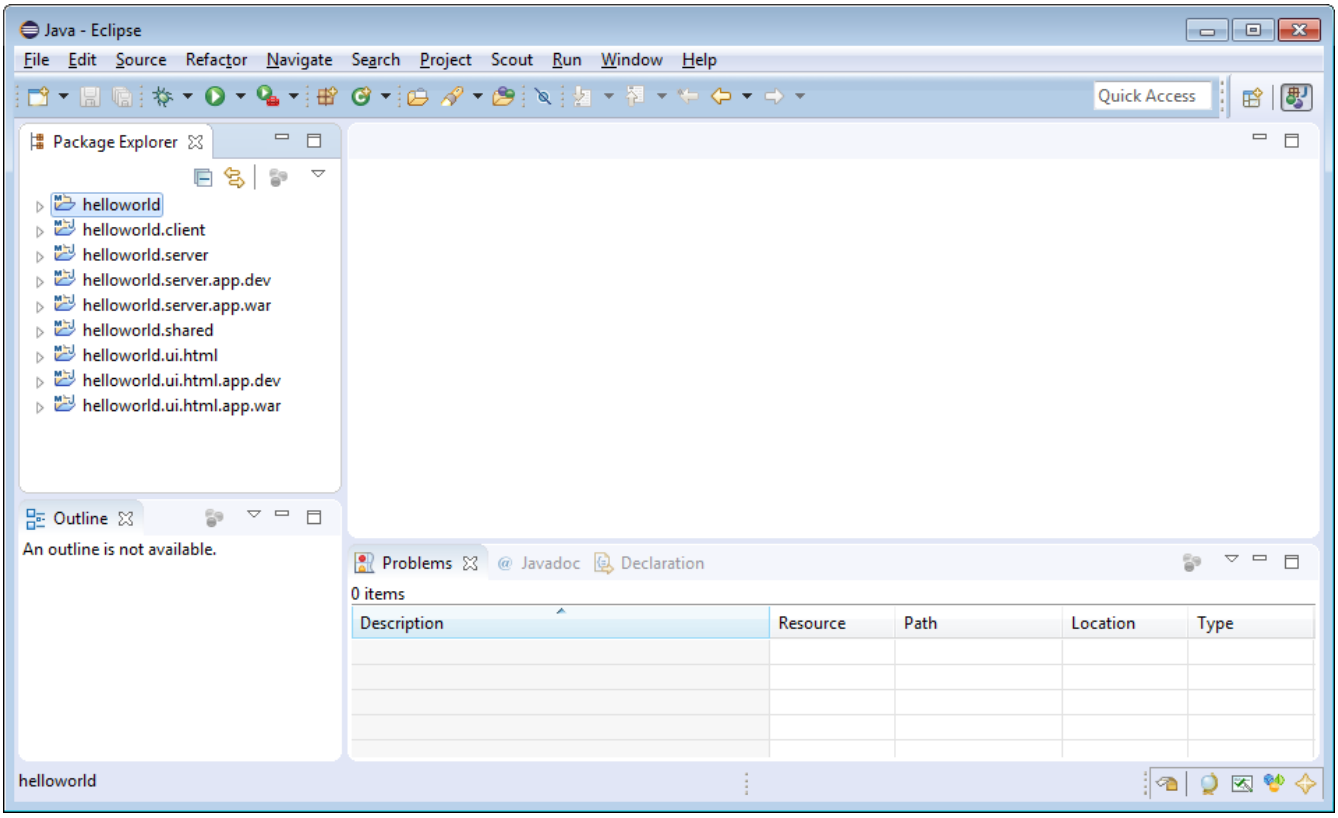

Figure 4. The inital set of Maven modules created for the Hello World application.

You need to adjust the Maven build if Java 9 is the minimal required version of your project. Open `helloworld/pom.xml` (replace `helloworld` with the `artifact id` you chose earlier) and add `<master_signatureCheck_skip>true</master_signatureCheck_skip>` to the `<properties>`-element. Note: the minimal required Java version is declared by property `jdk.source.version` within the very same `<properties>`-element.

Run the Application

After the initial project creation step we can start the Scout application for the first time. For this, the following three steps are necessary

1. Start the Scout backend server
2. Start the Scout frontend server
3. Open the application in the browser

To start the Scout backend server we first select the `[webapp] dev server.launch` file in the Package Explorer view of the Eclipse IDE and then use the *Run As* menu as shown in Figure 5.

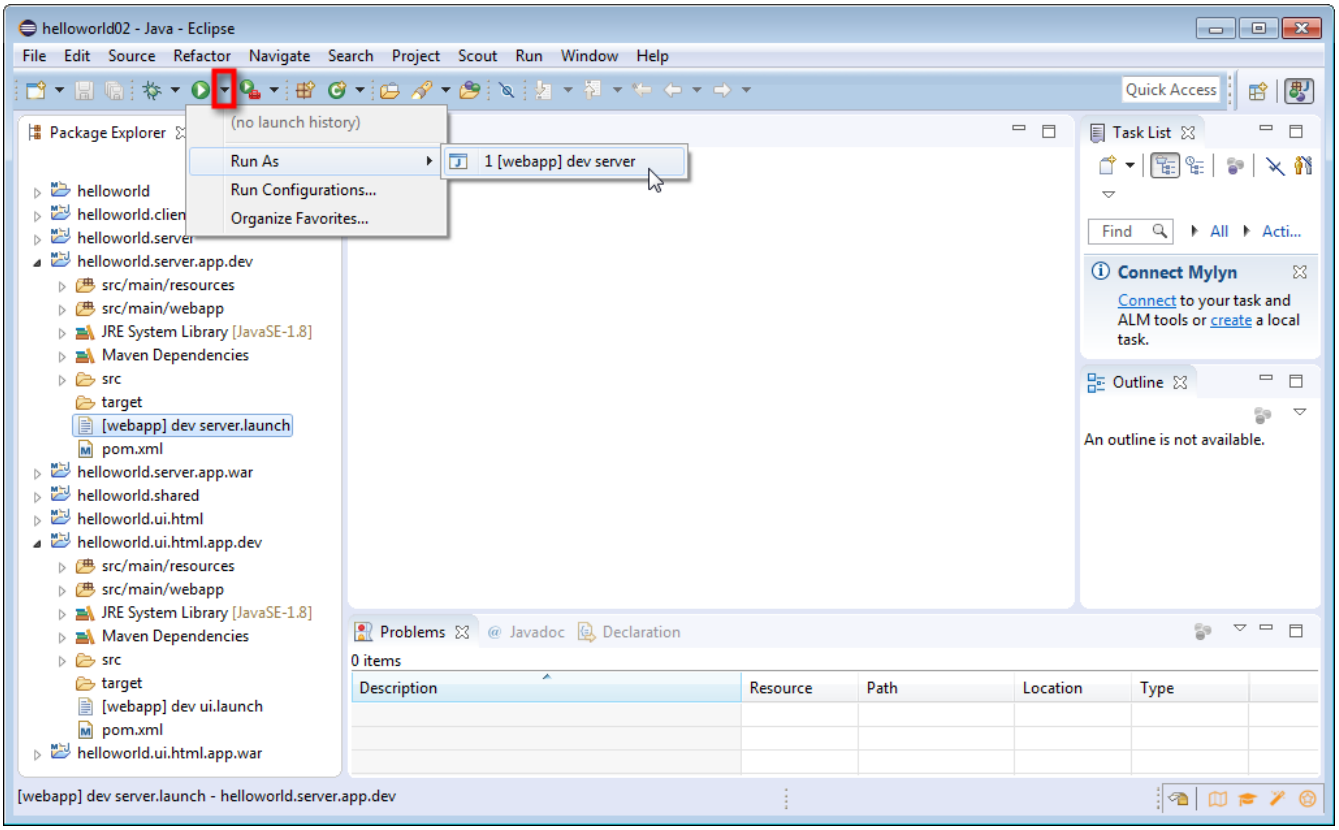

Figure 5. Starting the Hello World application.

Starting the Scout frontend server works exactely the same. But first select the `[webapp] dev ui.launch` file in the Eclipse IDE. This launch file is located under module `helloworld.ui.html.app.dev` in the Package Explorer.

During startup of the Scout applications you should see console output providing information about the startup. After having successfully started the Scout backend and frontend servers the Hello World application can then be accessed by navigating to http://localhost:8082/ in your favorite web browser.

The running Hello World application should then be started in your browser as shown in Figure 6.

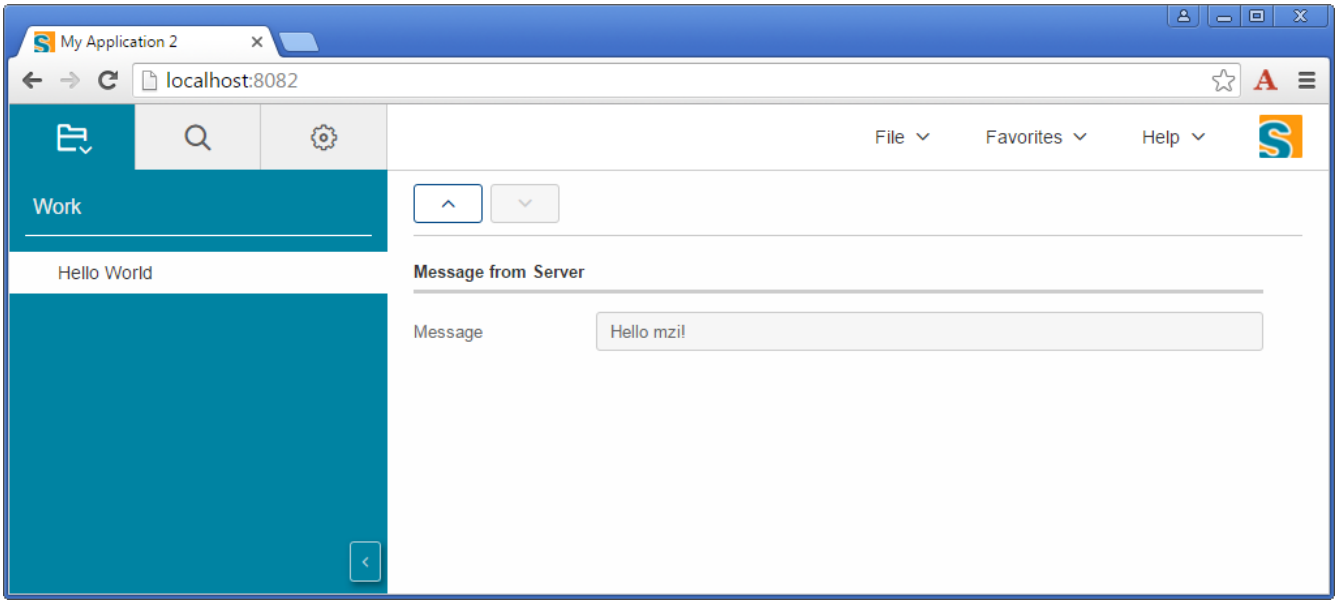

Figure 6. The Hello World application in the browser.

What's Next?

Now that you have successfully created your first Scout application, you might want to learn more about Scout. To gain experience with Scout we recommend looking at the beginner's guide.

Scout Beginner's Guide

If you are interested in Scout's concepts, architecture and features you probably want to have a look a the technical guide. For this, we are writing the Scout books.

Scout Technical Guide

In case you should get stuck somewhere and need help, try to get answers by searching the web. And if despite reasonable efforts this approach does not help, contact us on the forum. Should you have solved issues on your own, please consider sharing your findings in the Scout forum as this can help other folks too.

Scout Forum

We wish you all the best on your journey with Scout and hope to hear from you in the Scout forum.

Do you want to improve this document? Have a look at the sources on GitHub.