

Hello Scout JS Full Stack

Version 22.0

Table of Contents

Prerequisites	2
Node.js	2
IntelliJ	2
Create the Project	4



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Prerequisites

This section guides you through the installation of the tools required to start the **Hello Scout JS Full Stack** application.

Node.js

First Node.js needs to be installed as Scout uses it to build web assets. So if you don't have it yet, visit the [Node.js download site](#), choose the package for your platform and install it on your local machine.

Make sure the Node.js installation is on the PATH. You can verify it by using your command line:

```
c:\> node --version
v12.21.0
```

Add pnpm

Scout uses [pnpm 5](#) as package manager. Therefore install it into your Node installation by using your command line:

```
npm install -g pnpm
```

and verify that it was installed successfully with:

```
c:\> pnpm -v
5.18.2
```

IntelliJ

If you have no IntelliJ yet, you can download it from the [JetBrains download site](#). We recommend selecting the Ultimate edition to have the JavaScript support included in the IDE. There is a 30-day trial if you have no licence. For this tutorial you can also use the free Community Edition but it requires some extra steps indicated.

Install or extract the package and run it using **bin/idea64.exe** in the installation folder. Follow the instructions until the **Welcome to IntelliJ IDEA** screen is shown.

On the left-hand-side switch to **Plugins**, search for **Eclipse Scout** and press the green **Install** button. In case a **Third-Party Plugins Privacy Notice** is shown, press **Accept**. The Scout plugin does not collect or process any personal data. Afterwards the plugin is being downloaded from the [JetBrains Marketplace](#) and installed locally. As soon as this is completed press the **Restart IDE** button.

The same can also be achieved by navigating to **File | Settings | Plugins** in case you already have an existing IntelliJ project running.

Congratulations! You have successfully set up IntelliJ IDEA for Scout development.

Create the Project

Start your IntelliJ (if not already running) and in the **Welcome to IntelliJ IDEA** screen click on **New Project**. The **New Project** wizard starts. The same can also be achieved from the menu **File | New | Project...** if an existing project is open already.

On the left hand side select the **Scout** type. You have to enter a **Group Id**, **Artifact Id** and a **Display Name** for your Scout project as shown in [Figure 1](#). 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 **Display Name** is used as the application name presented to the user (e.g. in the browser title bar).

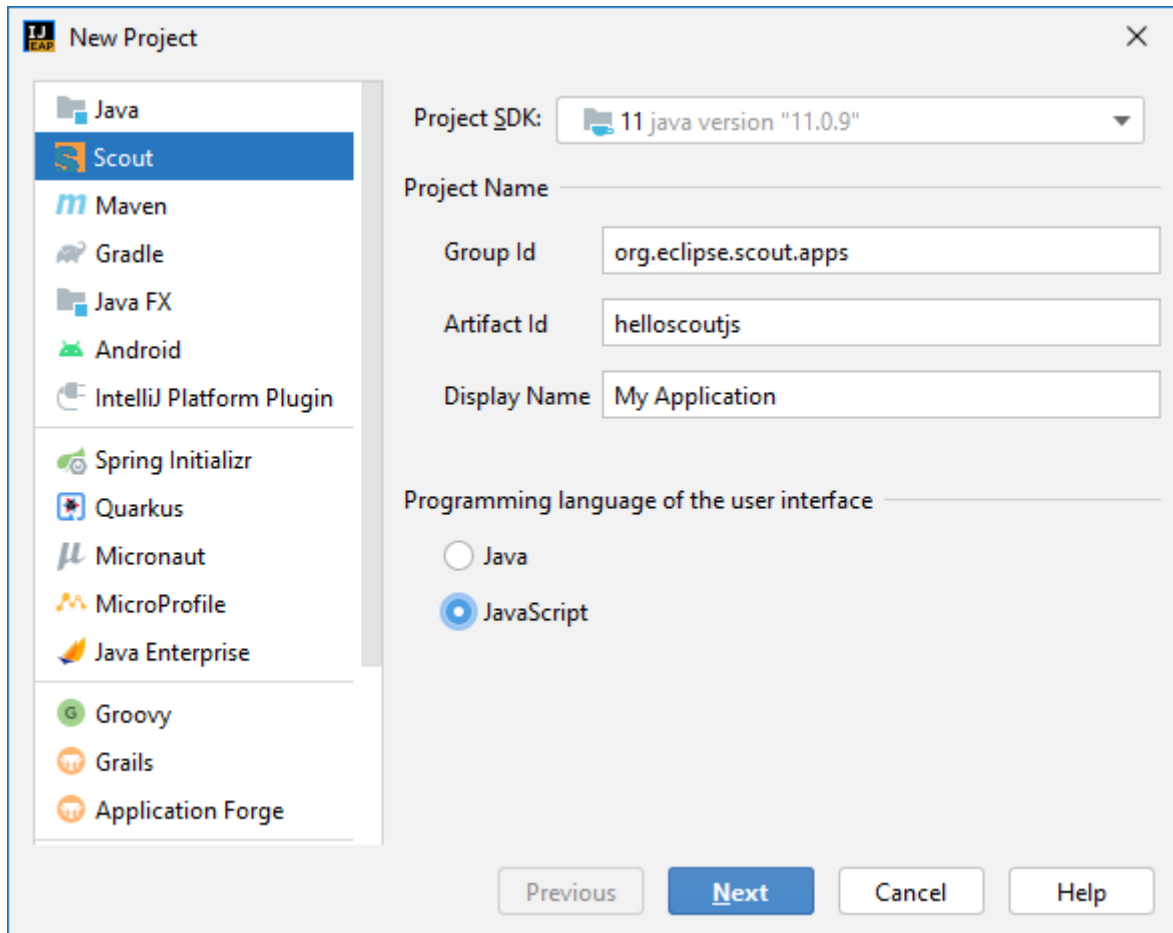


Figure 1. The new Scout project wizard.

For the **Hello Scout JS Full Stack** application use **helloscoutjs** as the artifact id and ensure the user interface programming language is set to **JavaScript** as shown in [Figure 1](#). You can keep the other default values. Then click the **[Next]** button.

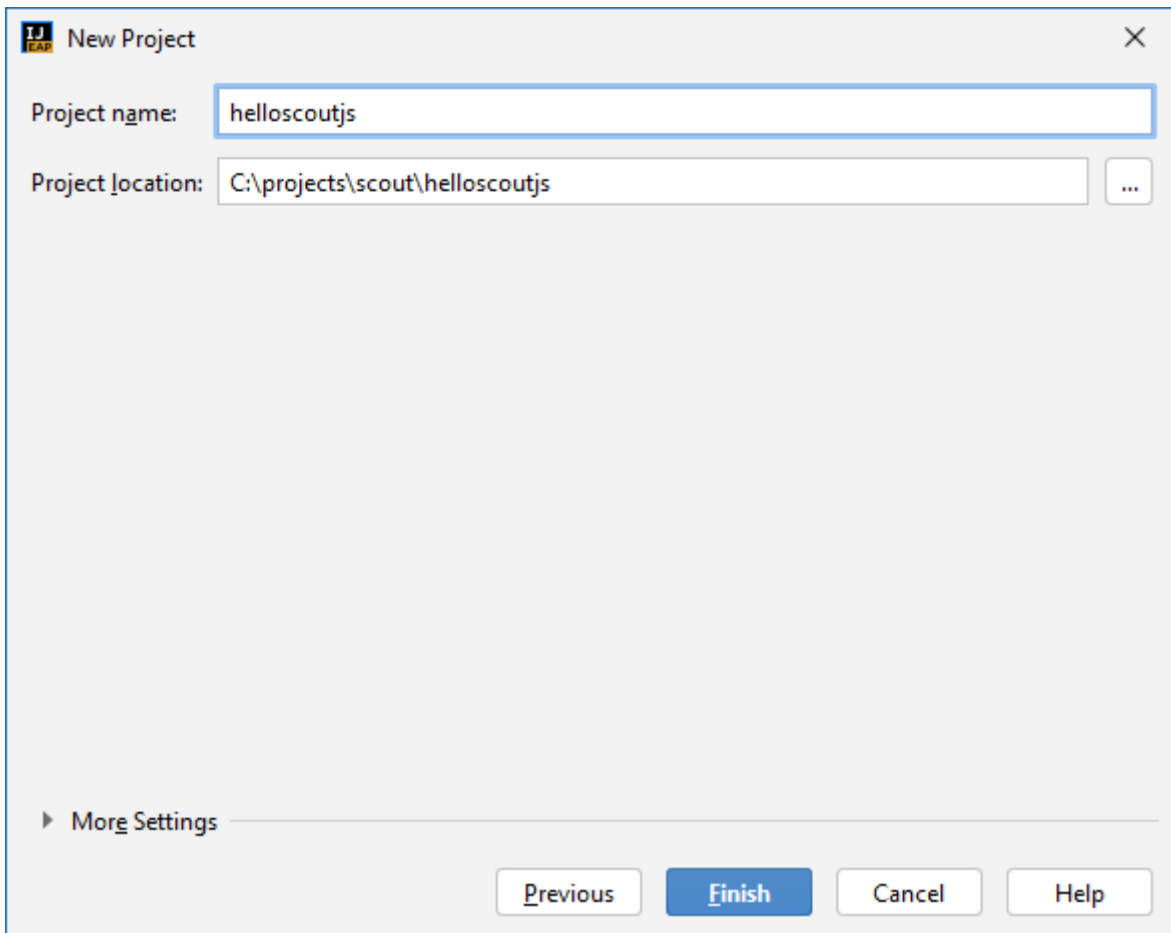


Figure 2. Specify name and location of the new project.

On the second page please specify project name and location and press [**Finish**]. The Scout plugin then creates the initial project content for you (you will see some Maven build output). Wait until all tasks have completed.

Afterwards you will find the created Scout modules in the Project view as shown in [Figure 3](#).

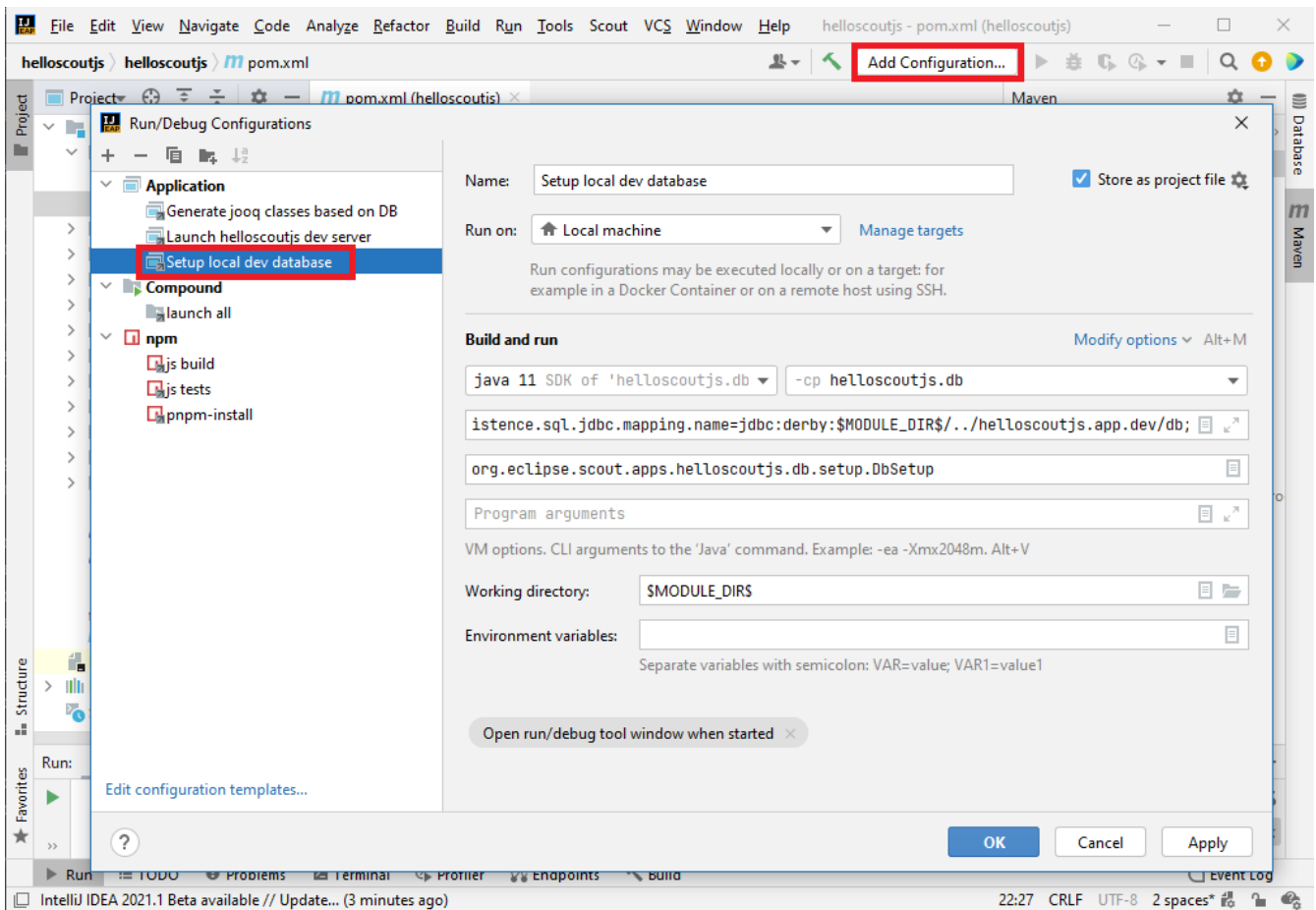


Figure 4. Selecting the db setup run configuration

Now you are ready to start the Scout JS application. This includes downloading the necessary JavaScript dependencies, executing the Java and JavaScript builds and launching the Scout development server. It serves the JavaScript assets to the browser and acts as backend for the REST calls coming from the user interface. You could start each step separately, but for the sake of convenience there is a compound run configuration available which performs all these tasks (IntelliJ Ultimate only, see below for instructions if using the Community Edition).

To use it switch the run configuration by clicking the run configuration menu on the top again. Now there is no need to open the dialog as the available run configurations are shown in a dropdown menu. Select the **launch all** compound and run it using the green triangle button.



The JavaScript build could fail in case the installed Node.js could not be found or is too old. Then follow the instructions in the section [Prerequisites](#) and check the IntelliJ settings in **File | Settings | Languages & Frameworks | Node.js** and **NPM**.



The `launch all` compound uses JavaScript run configurations which are only available in IntelliJ Ultimate. If using the Community Edition, follow these instructions instead: Execute `npm run pnpm-install` on the command line in the root of your project (next to the `pnpm-workspace.yaml`) to install all JavaScript dependencies. Then execute `npm run build:dev:watch` in the `helloscoutjs.app` module to start the JavaScript build and watcher. The watcher keeps on running and will continuously update the JavaScript assets as you change your JavaScript source files (hot-code-replace). Finally start the run configuration `Launch helloscoutjs dev server`.

Once the JS build has been completed (this may take a while for the first time as some dependencies need to be downloaded) and the server has been started, the `Hello Scout JS Full Stack` application can be accessed by navigating to <http://localhost:8084/> in your favorite web browser.

The `Hello Scout JS Full Stack` application is then presented as shown in [Figure 5](#).

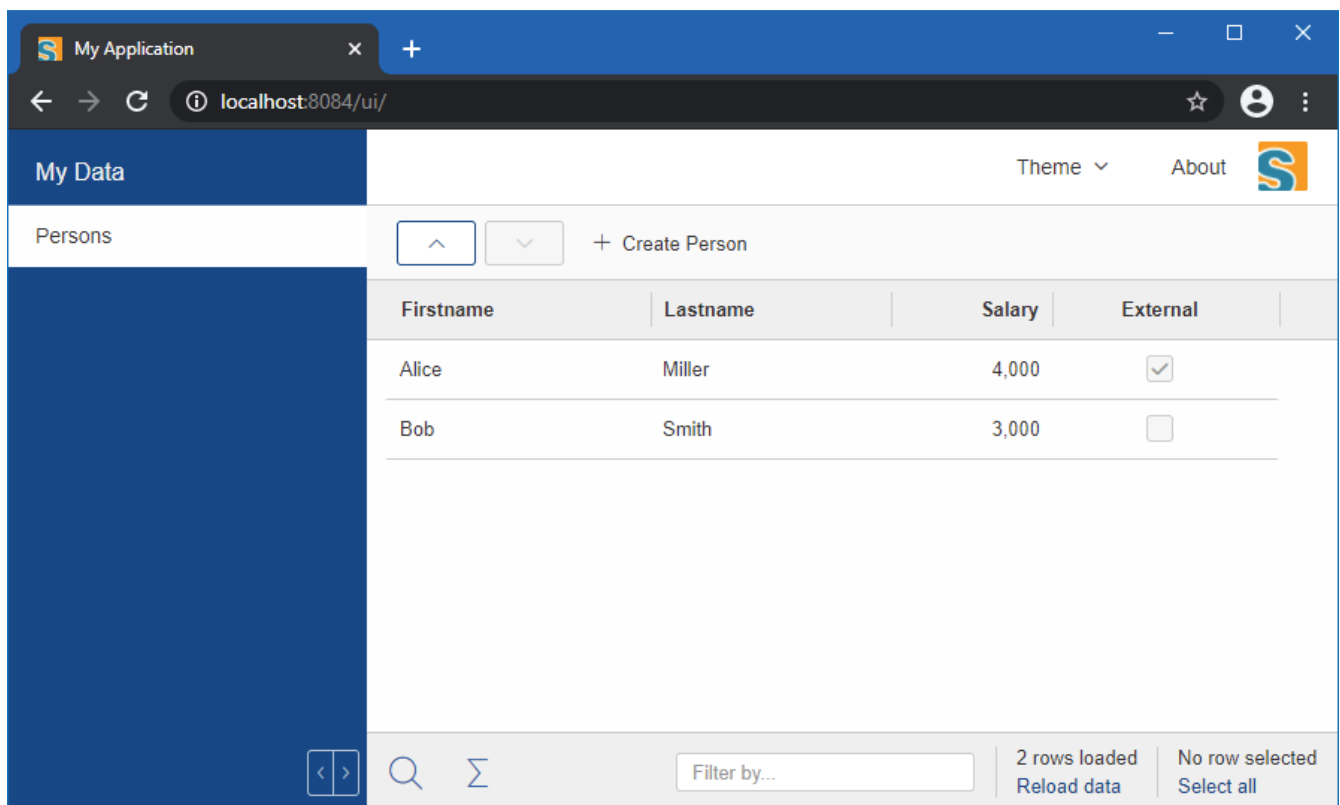


Figure 5. The Hello Scout JS Full Stack application in the browser.



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