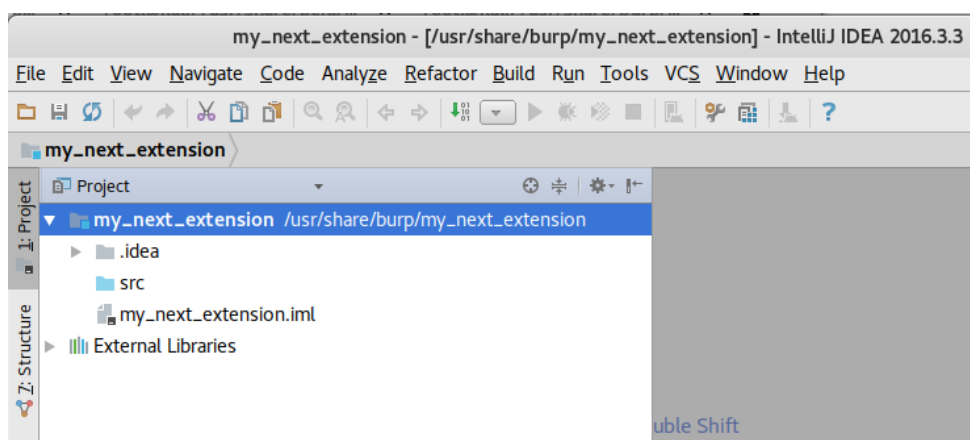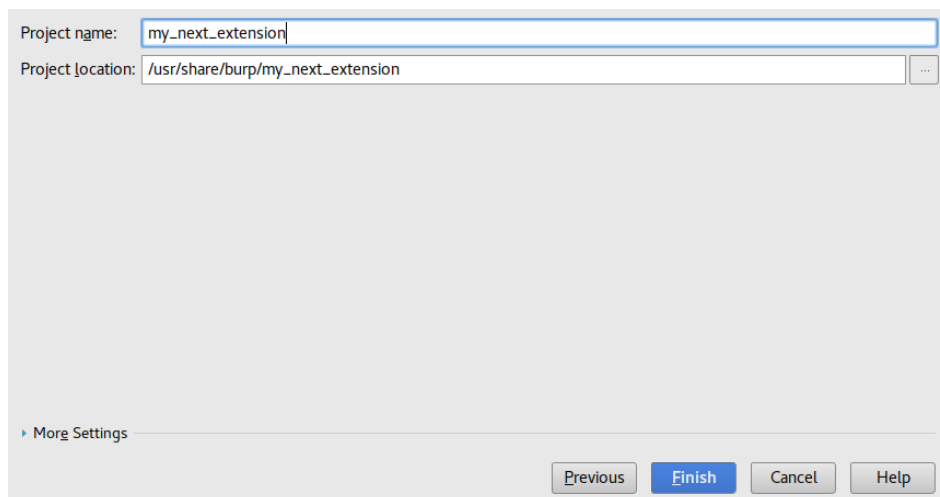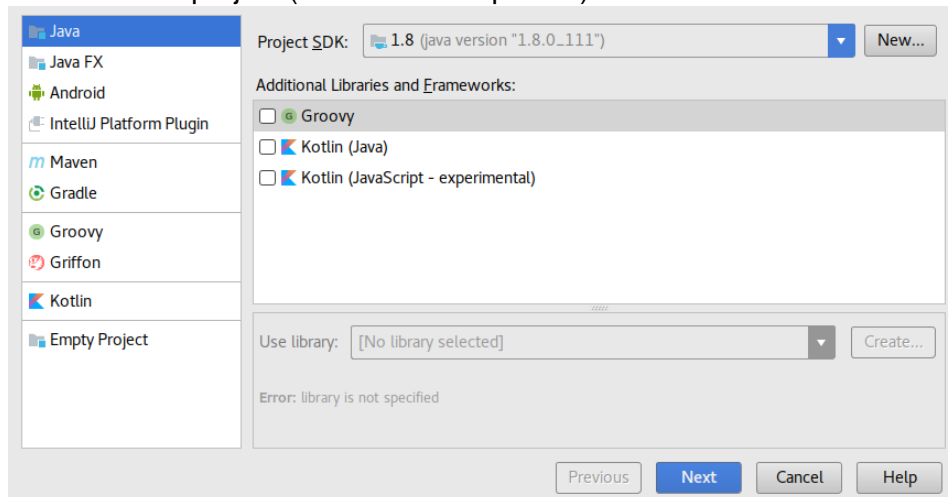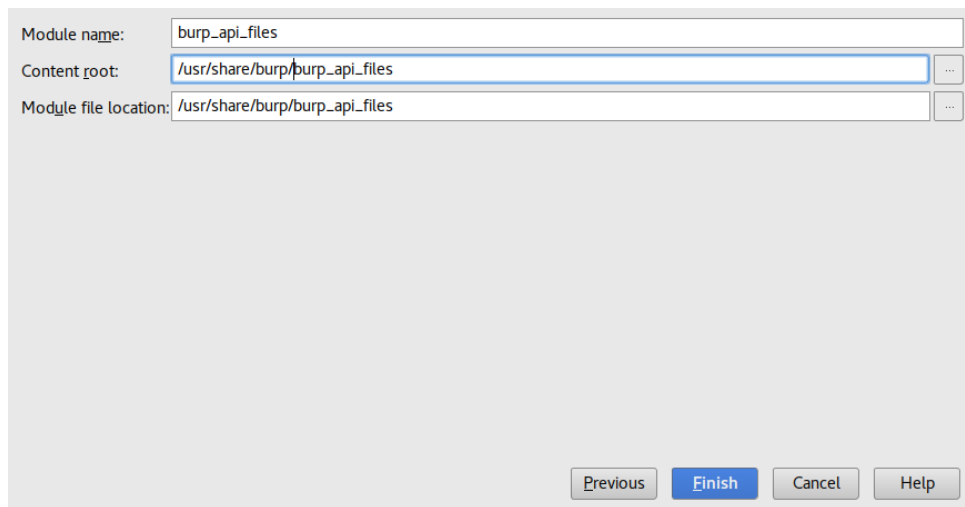## How to make a Burp Extension from scratch?

Make sure you install Intellij. All the rest of this manual relates to Intellij, so better if you have it, or you can use your preferred IDE and repeat the steps analogically.
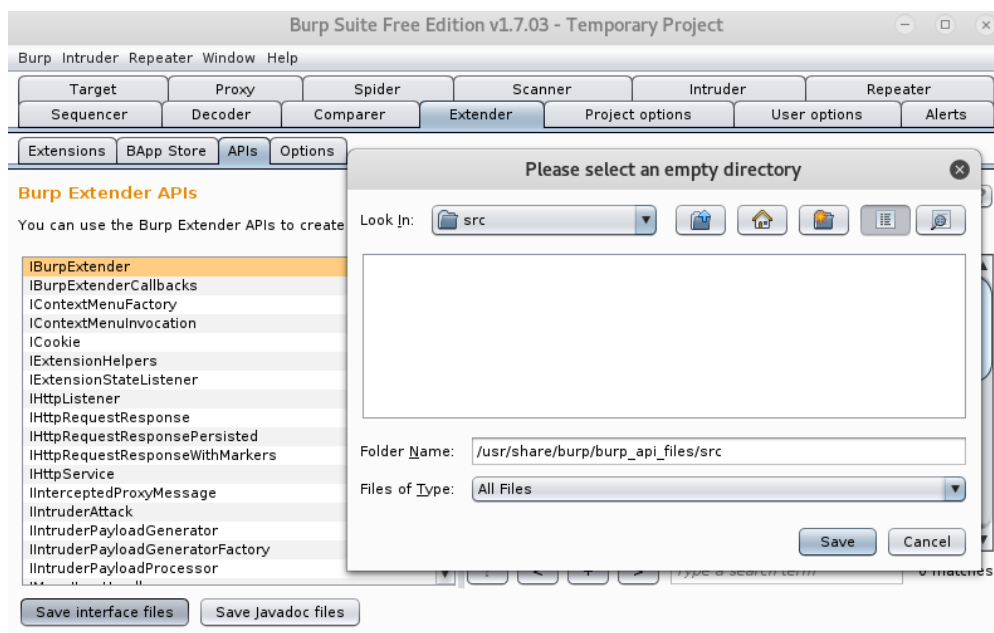
Create a new project (Not from a template...):

Create a new module for the Burp API files, next to your extension (Right-click on my_next_extension -> New -> Module).

Save the BurpSuite interface files. Make sure you save always the latest ones, which enables you to have the latest functionalities and features.

So now your environment looks like this:
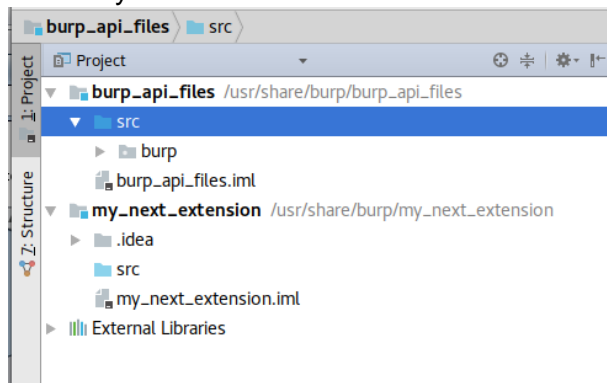
Select your extension, open module settings (F4) and make sure that your project is dependent on the burp_api_files, for creating you artifacts, which will be the .jar files loaded into Burp. So, Artifacts, add new, module from dependencies.
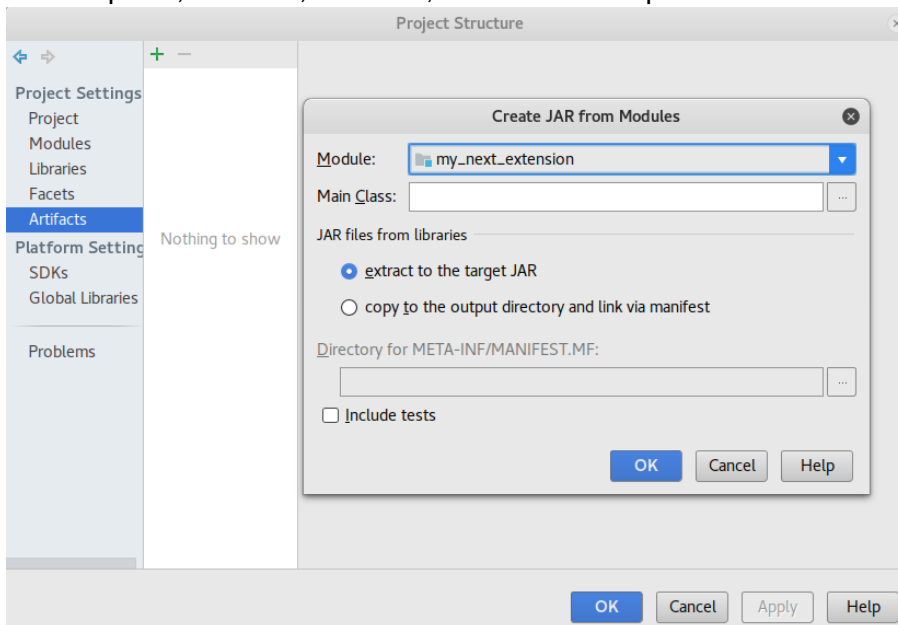
Besides, select include in project build.

Moreover, we need to make sure that the extensions complies with the API files.

Project Structure

Project Settings
Project
Modules
Libraries
Facets
Artifacts

Platform Setting
SDKs
Global Libraries

Problems

burp_api_files
my_next_extensio

Name: my_next_extension

Sources | Paths | Dependencies

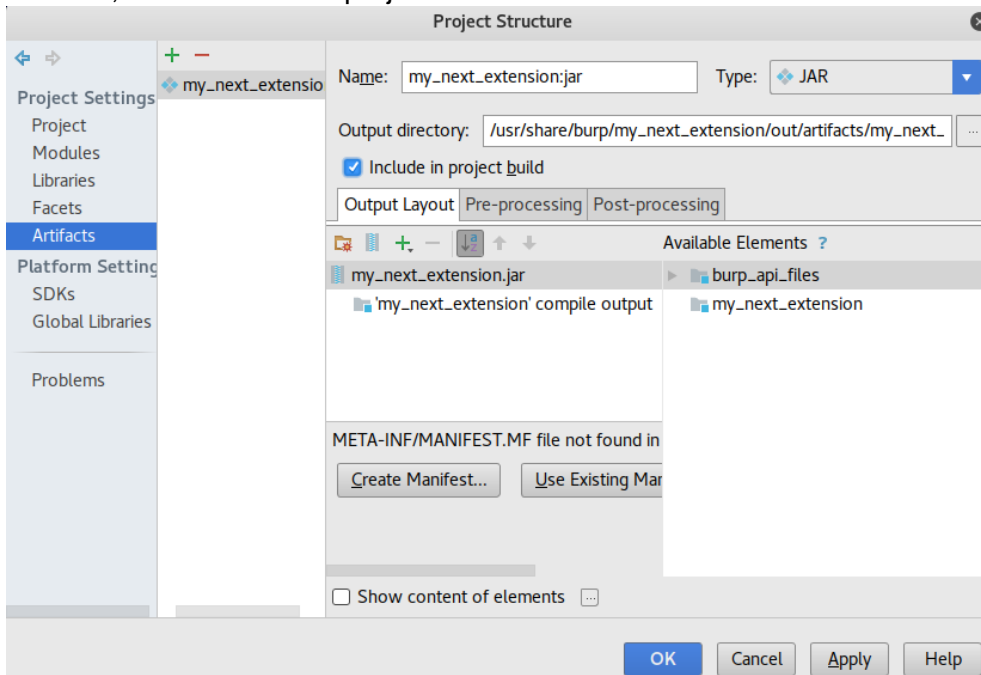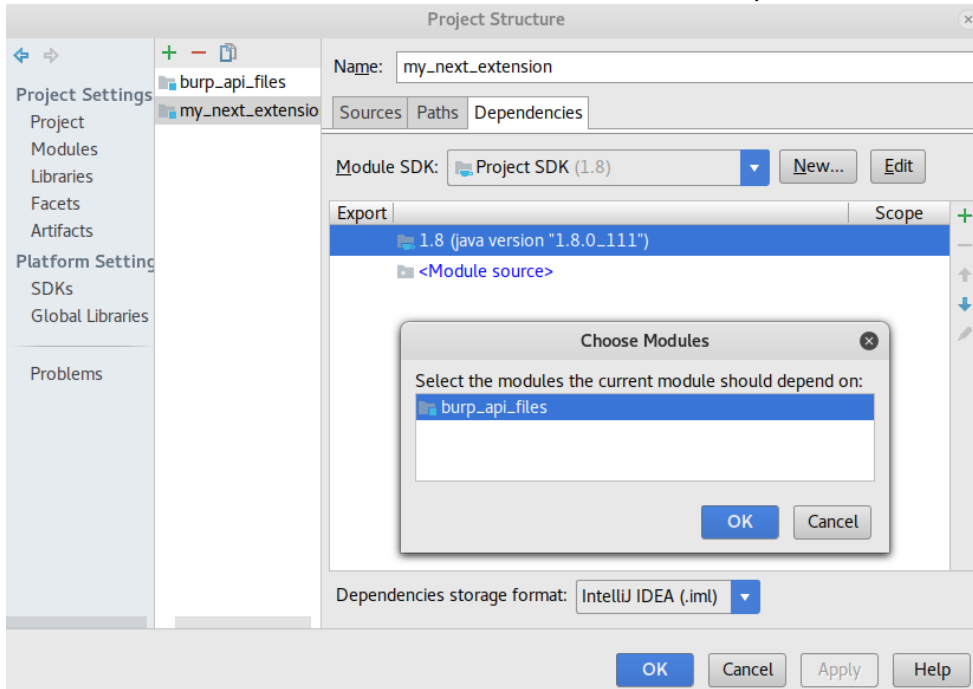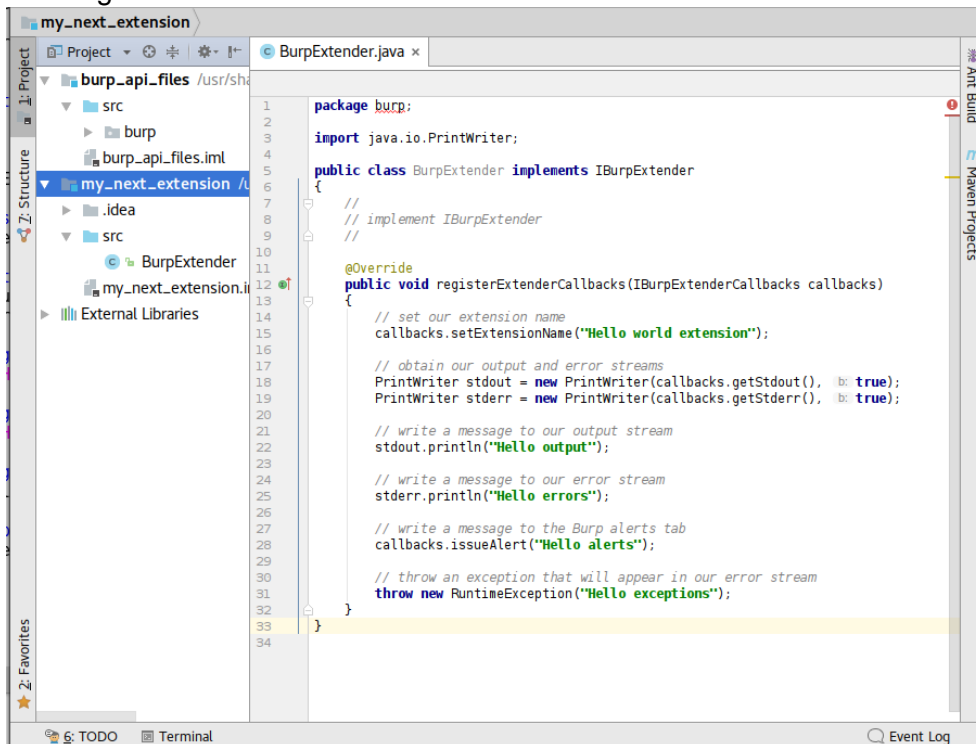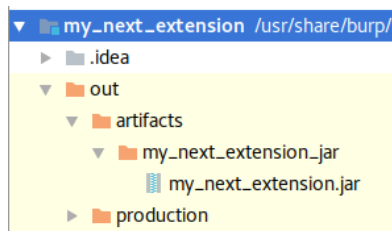Module SDK: Project SDK (1.8)   New...   Edit

Export   Scope
1.8 (java version "1.8.0_111")
<Module source>

Choose Modules

Select the modules the current module should depend on:
burp_api_files

OK   Cancel

Dependencies storage format: IntelliJ IDEA (.iml)

OK   Cancel   Apply   Help

So, create a new class called BurpExtender in you extension module, and insert your code.
[1] http://blog.portswigger.net/2012/12/sample-burp-suite-extension-hello-world.html
An we got:

```java
package burp;

import java.io.PrintWriter;

public class BurpExtender implements IBurpExtender
{
    //
    // implement IBurpExtender
    //

    @Override
    public void registerExtenderCallbacks(IBurpExtenderCallbacks callbacks)
    {
        // set our extension name
        callbacks.setExtensionName("Hello world extension");

        // obtain our output and error streams
        PrintWriter stdout = new PrintWriter(callbacks.getStdout(),  true);
        PrintWriter stderr = new PrintWriter(callbacks.getStderr(),  true);

        // write a message to our output stream
        stdout.println("Hello output");

        // write a message to our error stream
        stderr.println("Hello errors");

        // write a message to the Burp alerts tab
        callbacks.issueAlert("Hello alerts");

        // throw an exception that will appear in our error stream
        throw new RuntimeException("Hello exceptions");
    }
}
```
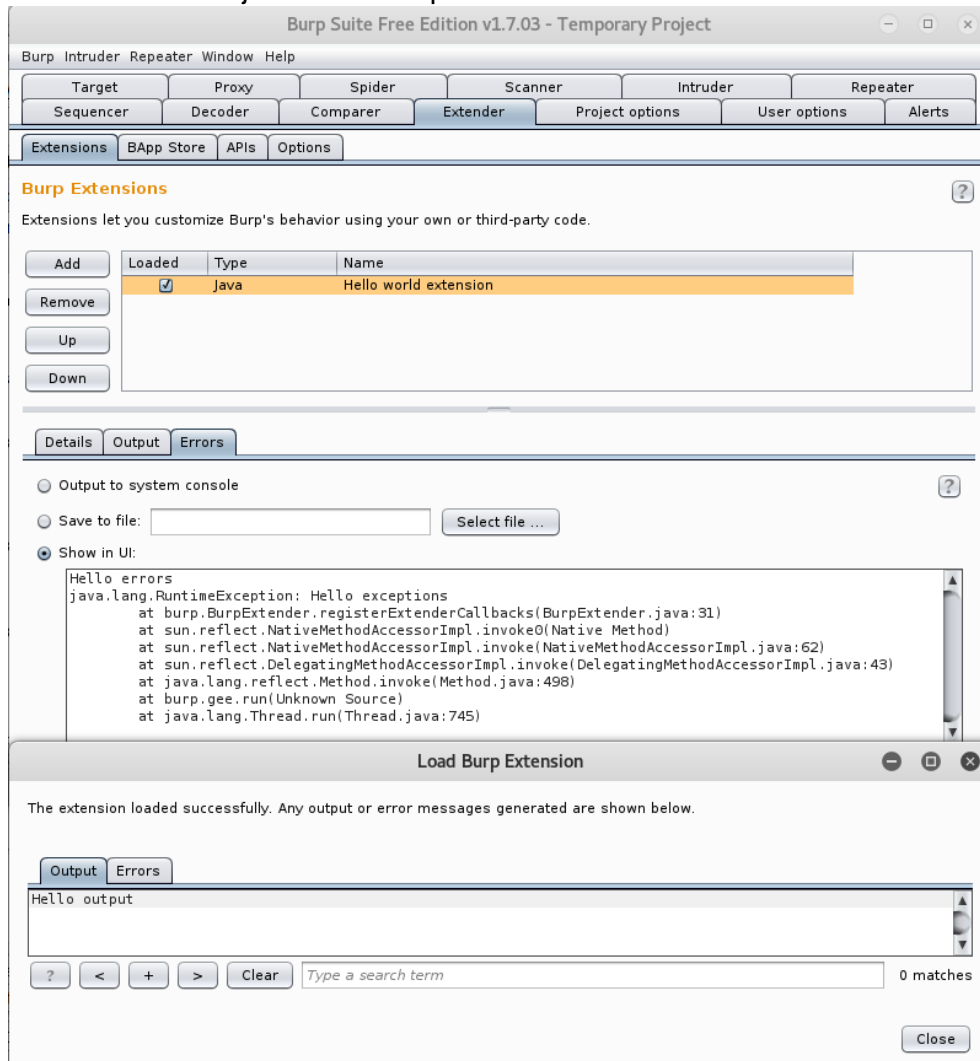
Build your project (ctrl + F9).

And let's load the jar file into Burp.

Aaaaand that's it. Congratulation, you created your first Burp extension.