

Operating system setup

1. Download and install Git: <https://git-scm.com/downloads>

During installation you can select all default options without changing anything. This tool is extremely helpful to manage source code of an application. We will use it to download source code of 'bookcase' application, which we will work on during the workshop.

To download the 'bookcase' application run Git Bash. Then select directory, where you want to download the application. For example to download bookcase application to C drive on Windows type these two commands:

```
cd /c
git clone https://github.com/tknowak/bookcase.git
```

2. Download and install Java SE Development Kit:
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
3. Download Maven 3: <http://ftp.ps.pl/pub/apache/maven/maven-3/3.3.3/binaries/apache-maven-3.3.3-bin.zip>

To install Maven just unzip downloaded package. Then you have to add Maven to PATH environment variable. Follow the instructions here:

<https://www.java.com/en/download/help/path.xml>. In Windows 7 it can be done this way:

Open "System" tab in Windows Control Panel, then "Advanced System Settings", then "Environment Variables" and then double click on "Path" variable. In the "value" field add at the end semicolon and path to Maven, e.g. ";C:\Apps\apache-maven-3.2.3\bin"

Also make sure, that JAVA_HOME environment variable is added and set to directory where you have installed Java, e.g. C:\Program Files\Java\jdk1.8.0_45

To verify, that everything works fine. Open Git Bash - **if it has been opened, you must restart it to load changed environment variable PATH**. Type command: `mvn -v`
You should see information about Maven and Java version along with other information.

To run the application go to 'bookcase' directory (in Git Bash: `cd /c/bookcase`) and execute the following commands:

```
mvn clean install
mvn wildfly:run
```

and wait a while ☺ The Wildfly application server will be downloaded automatically and run.

To verify that application is running, open the following address in your browser:

<http://localhost:8080/bookcase/app/status>

The page should show "Application is up and running!".

You can also download and install application for developing, e.g. IntelliJ Idea Community Edition: <https://www.jetbrains.com/idea/download/>