In order to facilitate a quick and easy way to see myWatchlist in action a temporary test environment has been set up which can be viewed by following [this](http://mywatchlist.webredirect.org:5050/homePage) link.

In order to provide a more detailed insight to the application a zip file has been provided for in de “Resources” folder which can be used to import the project into the IDE IntelliJ.

Installation of the application as a standalone server based application can be done by following the below instructions.

**Requirements:**

1. Installation of the [Java JDK](https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html#license-lightbox) (version 8 or above).
2. Installation of PostgreSQL version 12.
3. Installation of Apache Tomcat version 9.

**Installation of Java SDK:**

Download Java JDK [here](https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html#license-lightbox) and run the installer.

1. Select all optional features when prompted (all options are selected by default).
2. The installer will give a popup asking where to install the JRE (Java runtime environment). Accept the default location and continue the installation until completed.
3. Close the installer.

**Installation of postgreSQL:**

Download postgreSQL [here](http://www.enterprisedb.com/postgresql-tutorial-resources-training?cid=48) and run the installer.

1. Select an installation directory and continue.
2. Select all features available and continue.
3. Select a location where postgres will save the data from the database and continue.
4. Enter a password for the default user account “postgres” and continue. This step is required to complete the initialization of the database!
5. Keep the default port value and continue.
6. Select your “locale” and continue until installation begins.
7. When the installation is completed the installer can be closed without running “Stack builder”.
8. Start the application “pgAdmin”. You will be requested to enter a master password.
9. When attempting to access the server on left side of the screen you will be prompted for the password provided in step 4.
10. Run the bat file “InitialiseDB.bat”. A CMD window will open prompting you for the password provided in step 4\* and initialize\*\* the database with the required tables etc.

Note: The bat file “ClearDB.bat” can be used to restore the database to its default state after completing step 10.

\* If you have a previous installation of postgreSQL without a password setup for the user “postgres” you

will need to setup a password within the application “pgAdmain” before proceeding with step 10.

\*\* Execution of step 10 will modify the default database “postgres” and schema “private” within.

**Installation of Apache Tomcat:**

Download Apache Tomcat [here](https://downloads.apache.org/tomcat/tomcat-9/v9.0.37/bin/apache-tomcat-9.0.37.exe) and run the installer.

1. During installation choose “full” and install all optional components and continue.
2. Verify that the application port is set at 8080. Optionally you can provide an administrator password. Continue the installation.
3. Provide the location of the JRE (Java runtime environment) as follows:

* Navigate to your Java installation location.
* Within that directory select the “jdk” folder.
* Within this folder select the “jre” folder.
* The path should be similar to “C:\Program Files\Java\jdk1.8.0\_241\jre\”

1. Continue by selecting “install” and complete the installation by running Apache Tomcat.
2. Open a web browser and navigate to the Tomcat manager page [here](http://localhost:8080/manager/html). You might be prompted for the administrator password if this was provided in step 2.
3. In the section “war file to deploy” click on “choose file” and select the provided .war file within the folder “Recourses”.
4. Click on “Deploy”. After loading the .war file the manager window should display a message indicating a successful import of the file at the top of the screen.
5. Navigate to the file location “C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf\”.
6. You have 2 options here:

* Either replace the file “server.xml” contained in this directory with the provided file having the same name in the folder “Recourses”.
* Or open the file “server.xml” and paste the below snippet within the tag <Host>.

<Context path="" docBase="myWatchlist">

<!-- Default set of monitored resources -->

<WatchedResource>WEB-INF/web.xml</WatchedResource>

</Context>

1. Restart the Tomcat server using the “Configure Tomcat” application.

The application myWatchlist is now installed on your own standalone server and is accessible from your browser by navigating to the URL “<http://localhost:8080/>”

**Importing the project into IntelliJ IDEA:**

In order to import the project into IntelliJ first install the Java SDK and postgreSQL as explained above. No additional plugins or other installations of any kind are required for your installation of IntelliJ.

1. Download the project zip file from GitHub [here](https://github.com/JochenFalk/gs-myWatchlist-master/archive/master.zip).
2. Unzip the file to your preferred location.
3. Open the “Welcome screen” of IntelliJ and select "Open or Import".
4. Navigate to the location of the unzipped project and select thee file "pom.xml" from the folder “Complete”.
5. Select “Import as project”.
6. After the project is imported navigate to the “libs” folder contained in the project using IntelliJ.
7. Select "Add as library" from the right click menu for every jar found in this folder.
8. Select “ok” in the popup window that appears to add the jar to the project library.
9. Navigate to the location “project root\complete” using windows explorer and overwrite the automatically generated file “myWatchlist.iml” with the file in the folder “project root \documentation\Installation guide\Resources\myWatchlist.zip\complete”.

The run configuration dropdown at the top of the IntelliJ window should now contain a configuration called “SpringBootWebApplication”. Press the green triangle next to build and run the project.

For further information on features and usage please see the applications “user guide”.