

# SetUp Instructions for Software Engineering Project P32

## “HR Tool Interne Positionsvermittlung”

### Client

**Ms. Laura Schumm,**

Coordination of Internal HR-Relocation at Universität des Saarlandes

### Developers

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### Tutor

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## SetUp Instructions

### Requirements

1. Java JDK 1.8 (*You can download it from <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>*)
2. Sbt (*You can download it from <http://www.scala-sbt.org/download.html>*)
3. MongoDB (*You can download it from <https://www.mongodb.com/download-center#community>*)
4. Studio 3T (*You can download it from <https://studio3t.com/download/>*)
5. IntelliJ (*IDE recommended*) (*You can download it from <https://www.jetbrains.com/idea/download/>*)
6. OS - Windows or Ubuntu (*Instructions for Windows given below*)

### Deployment

**Note:** The project is not deployed on any platform. The project was initially to be deployed to the University website using HiZ's help. Since HiZ was unavailable, the client asked us to develop a stand alone platform and deliver the source code. Since the client and our team was not made aware of the platform being used by HiZ, we couldn't proceed with the deployment. The client mentioned that HiZ would eventually take care of the deployment phase. Since the deployment issue was discussed earlier on, we also have it mentioned on our Requirements contract.

## Setting up the project on Localhost

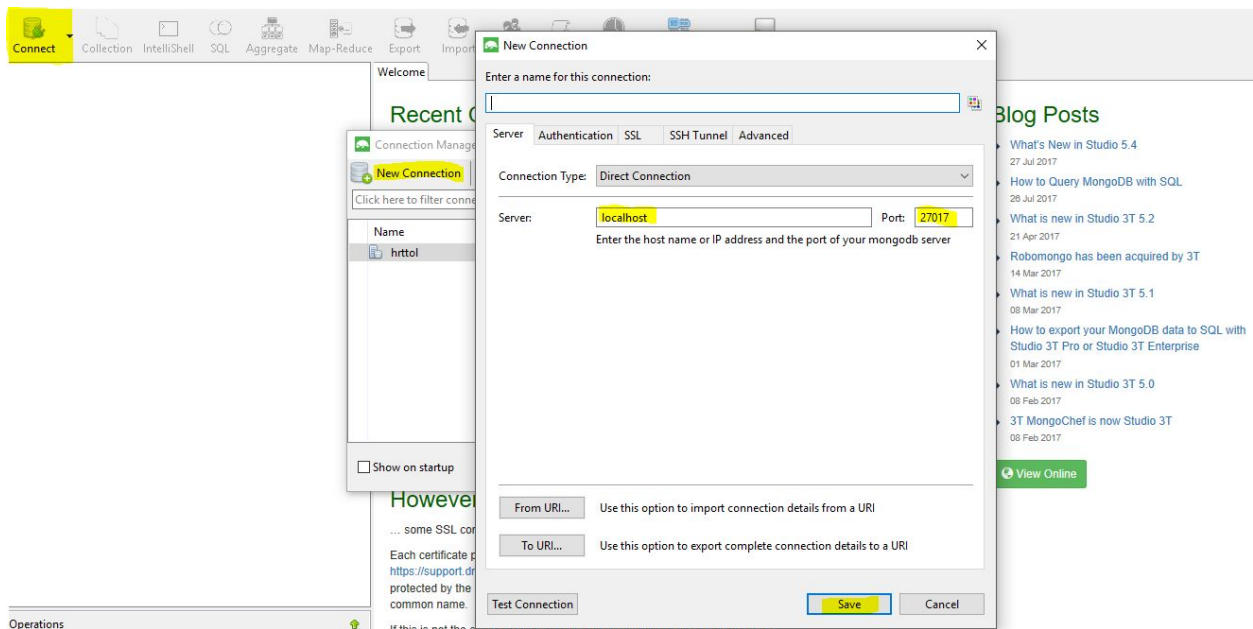
1. **Run Mongo DB :** Run the mongod server - mongod.exe through the command prompt : navigate to C:\Program Files\MongoDB\Server\3.4\bin and run the mongod server (mongod.exe) through the command prompt.

```
C:\Windows\System32\cmd.exe - mongod.exe
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

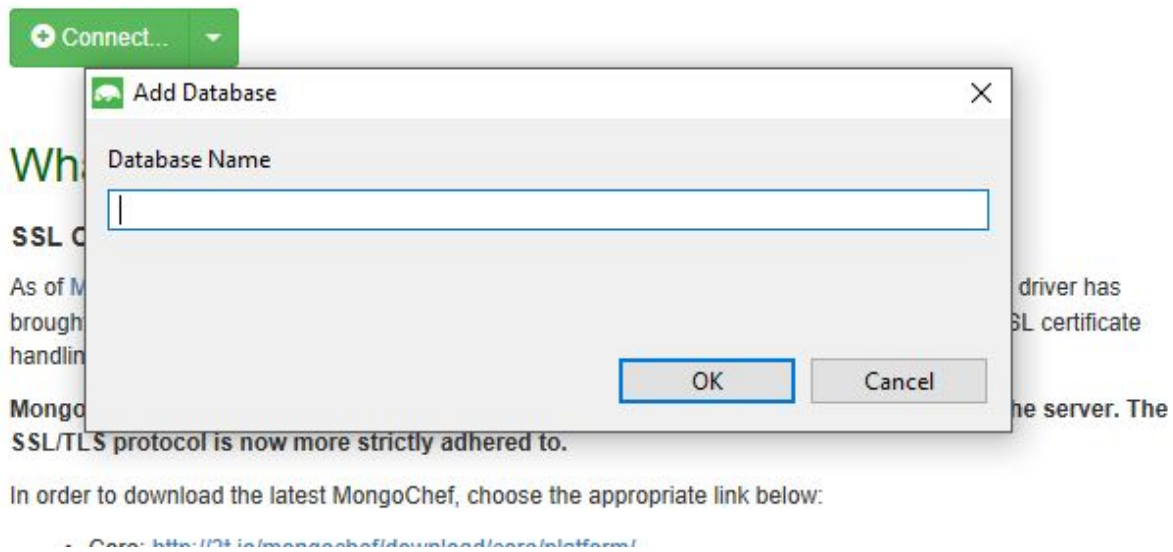
C:\Program Files\MongoDB\Server\3.4\bin>mongod.exe
2017-07-27T08:21:35.896-0700 I CONTROL [initandlisten] MongoDB starting : pid=6976 port=27017 dbpath=C:\data\db\ 64-bit
host=Adnan
2017-07-27T08:21:35.897-0700 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2017-07-27T08:21:35.897-0700 I CONTROL [initandlisten] db version v3.4.4
2017-07-27T08:21:35.897-0700 I CONTROL [initandlisten] git version: 888390515874a9debd1b6c5d36559ca86b44babd
2017-07-27T08:21:35.897-0700 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.1u-fips 22 Sep 2016
2017-07-27T08:21:35.898-0700 I CONTROL [initandlisten] allocator: tcmalloc
2017-07-27T08:21:35.898-0700 I CONTROL [initandlisten] modules: none
2017-07-27T08:21:35.898-0700 I CONTROL [initandlisten] build environment:
```

2. **Connect to Host :** Go to Studio 3T and connect to the host in our case “localhost” and Add a database called "hrtool" by right clicking on the connected host and add a user with credentials admin:admin i.e. User:Admin, Password:Admin by right clicking on the created database and clicking “Manage Users”

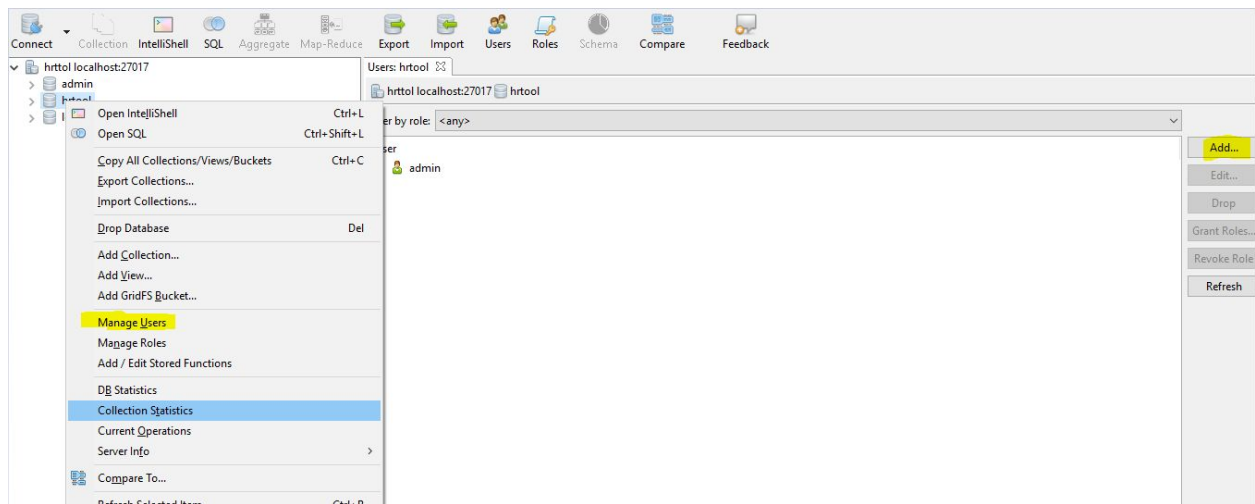
### a) Connect to localhost



b) Create a new database

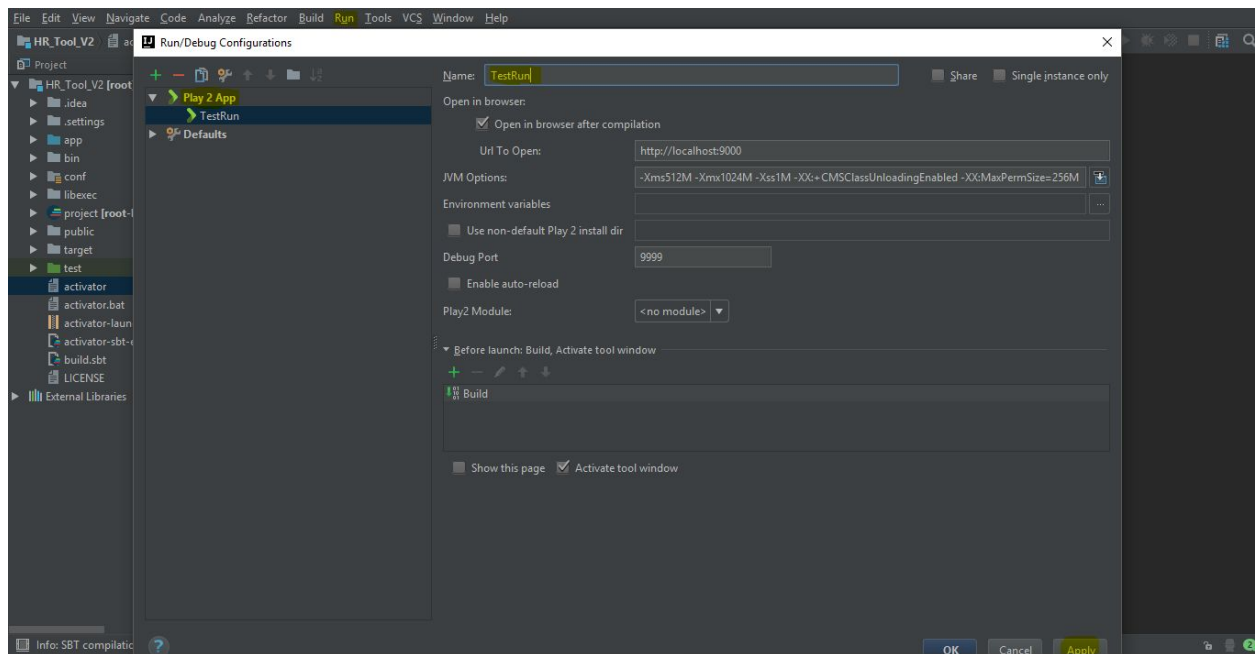


c) Add a user

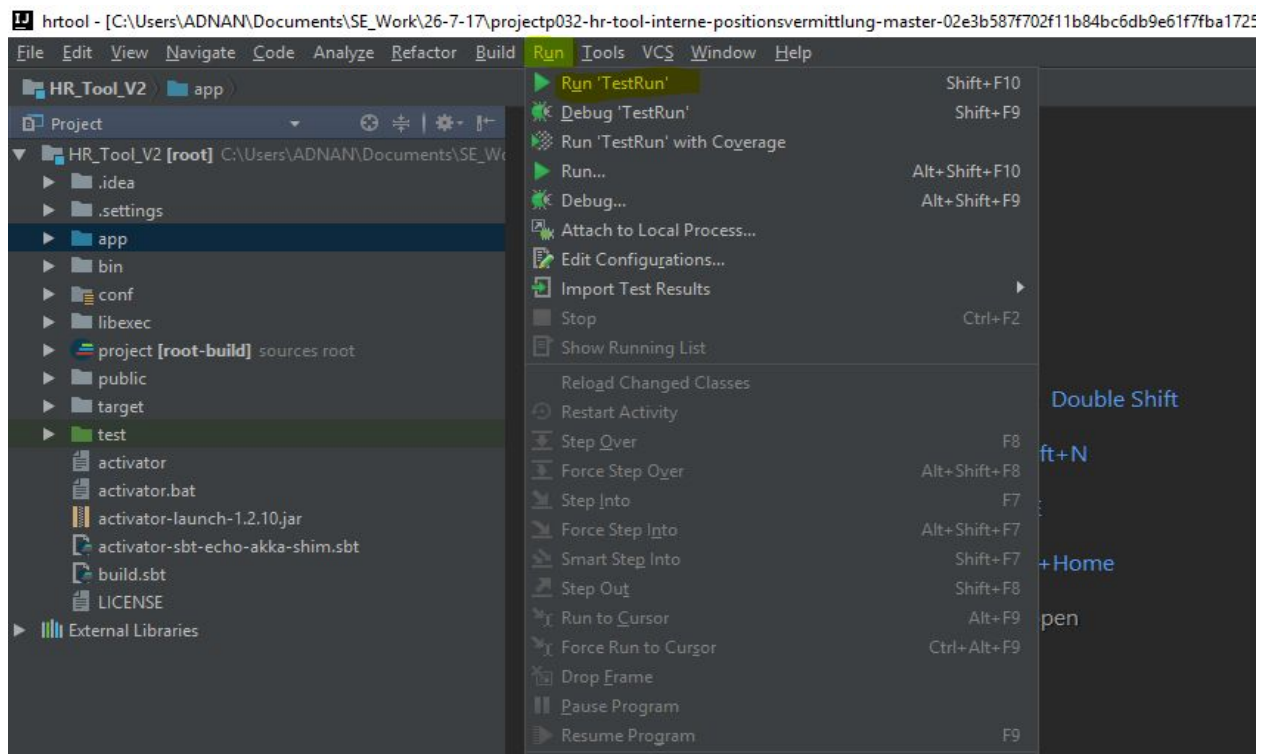


### 3. Clone the project and import it in an IDE, set an Run configuration:

Goto Run -> Edit Configuration -> Select Play 2 and give a name for the Configuration.



### 4. Run the project by using the configuration you just created - Run -> Run Configuration\_Name

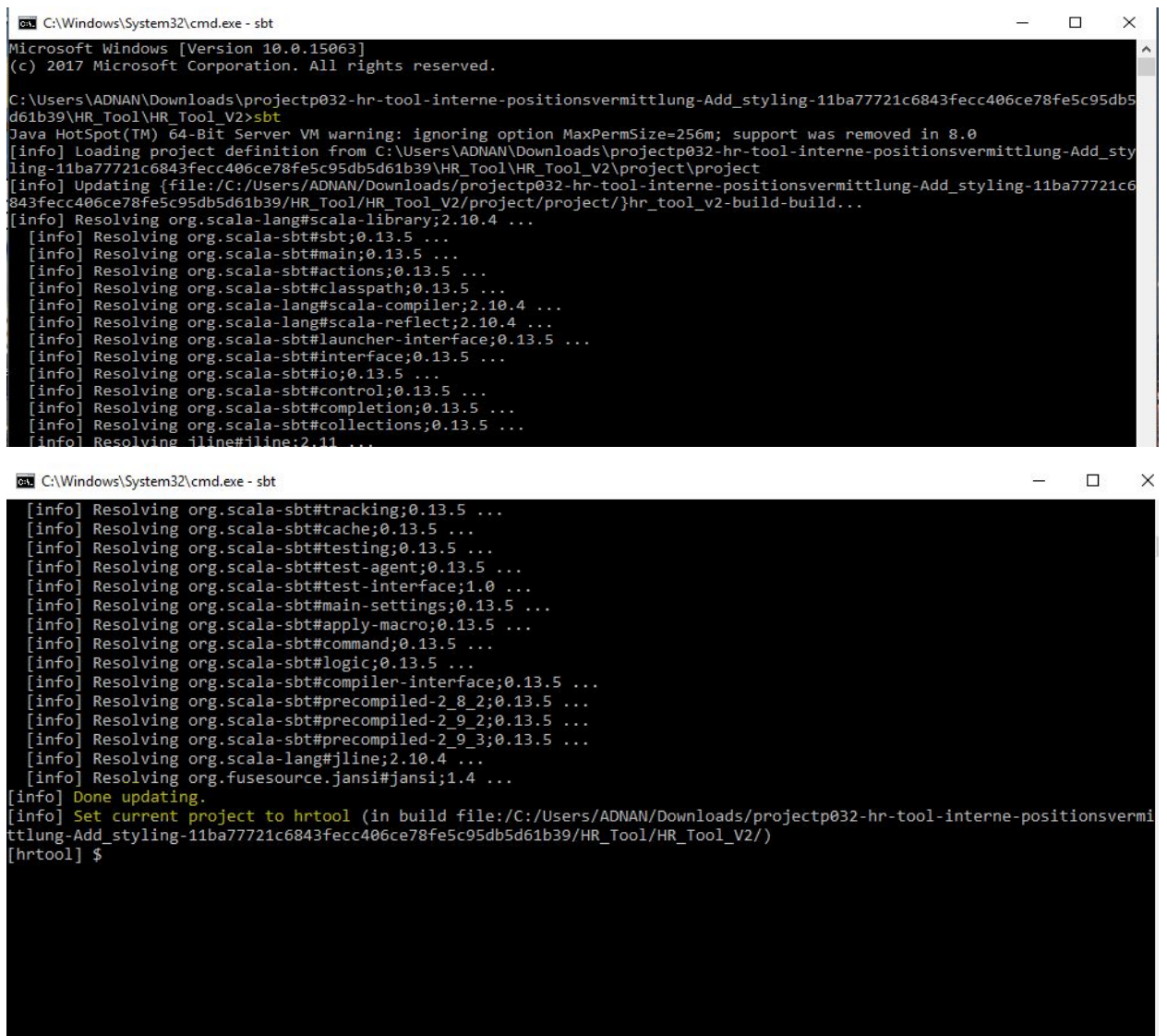


5. Goto localhost:9000 in your web browser and you should see the project running.

## Building the project

The method used above to run the project, where the project is imported into an IDE mostly IntelliJ, the IDE has the building functionalities within itself. If not desired this way, Please follow the below steps:

1. After successful installation of the requirements and running the MongoDB Server and creating of a Database as advised in the above steps, Clone the project, Open a command prompt and navigate to the project root directory.
2. In the command prompt type ***sbt***



```
C:\Windows\System32\cmd.exe - sbt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\ADNAN\Downloads\projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6843fecc406ce78fe5c95db5d61b39\HR_Tool_V2>sbt
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=256m; support was removed in 8.0
[info] Loading project definition from C:\Users\ADNAN\Downloads\projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6843fecc406ce78fe5c95db5d61b39\HR_Tool_V2\project\project
[info] Updating {file:/C:/Users/ADNAN/Downloads/projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6843fecc406ce78fe5c95db5d61b39/HR_Tool_V2/project/project/}hr_tool_v2-build-build...
[info] Resolving org.scala-lang#scala-library;2.10.4 ...
[info] Resolving org.scala-sbt#sbt;0.13.5 ...
[info] Resolving org.scala-sbt#main;0.13.5 ...
[info] Resolving org.scala-sbt#actions;0.13.5 ...
[info] Resolving org.scala-sbt#classpath;0.13.5 ...
[info] Resolving org.scala-lang#scala-compiler;2.10.4 ...
[info] Resolving org.scala-lang#scala-reflect;2.10.4 ...
[info] Resolving org.scala-sbt#launcher-interface;0.13.5 ...
[info] Resolving org.scala-sbt#interface;0.13.5 ...
[info] Resolving org.scala-sbt#io;0.13.5 ...
[info] Resolving org.scala-sbt#control;0.13.5 ...
[info] Resolving org.scala-sbt#completion;0.13.5 ...
[info] Resolving org.scala-sbt#collections;0.13.5 ...
[info] Resolving iLine#iLine;2.11 ...

C:\Windows\System32\cmd.exe - sbt
[info] Resolving org.scala-sbt#tracking;0.13.5 ...
[info] Resolving org.scala-sbt#cache;0.13.5 ...
[info] Resolving org.scala-sbt#testing;0.13.5 ...
[info] Resolving org.scala-sbt#test-agent;0.13.5 ...
[info] Resolving org.scala-sbt#test-interface;1.0 ...
[info] Resolving org.scala-sbt#main-settings;0.13.5 ...
[info] Resolving org.scala-sbt#apply-macro;0.13.5 ...
[info] Resolving org.scala-sbt#command;0.13.5 ...
[info] Resolving org.scala-sbt#logic;0.13.5 ...
[info] Resolving org.scala-sbt#compiler-interface;0.13.5 ...
[info] Resolving org.scala-sbt#precompiled-2_8_2;0.13.5 ...
[info] Resolving org.scala-sbt#precompiled-2_9_2;0.13.5 ...
[info] Resolving org.scala-sbt#precompiled-2_9_3;0.13.5 ...
[info] Resolving org.scala-lang#jline;2.10.4 ...
[info] Resolving org.fusesource.jansi#jansi;1.4 ...
[info] Done updating.
[info] Set current project to hrtool (in build file:/C:/Users/ADNAN/Downloads/projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6843fecc406ce78fe5c95db5d61b39/HR_Tool_V2/)
[hrtool] $
```



3. The project should have been successfully loaded as shown in the above screenshots, please type **clean**

```
[hrtool] $ clean
[success] Total time: 1 s, completed 28 Jul, 2017 9:56:06 PM
[hrtool] $ ]
```

4. After a success message is shown, we can go ahead and compile it by typing **compile** in the command prompt

```
[hrtool] $ compile
[info] Updating {file:/C:/Users/ADNAN/Downloads/projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6
843fecc406ce78fe5c95db5d61b39/HR_Tool/HR_Tool_V2/}root...
[info] Resolving org.scala-lang#scala-library;2.11.1 ...
[info] Resolving com.typesafe.play#twirl-api_2.11;1.0.2 ...
[info] Resolving org.apache.commons#commons-lang3;3.1 ...
[info] Resolving org.apache.commons#commons-parent;22 ...
[info] Resolving org.apache#apache;9 ...
[info] Resolving org.scala-lang.modules#scala-xml_2.11;1.0.1 ...
[info] Resolving com.typesafe.play#play_2.11;2.3.10 ...
[info] Resolving com.typesafe.play#build-link;2.3.10 ...
[info] Resolving com.typesafe.play#play-exceptions;2.3.10 ...
[info] Resolving org.javassist#javassist;3.18.2-GA ...
[info] Resolving com.typesafe.play#play-iteratees_2.11;2.3.10 ...
[info] Resolving org.scala-stm#scala-stm_2.11;0.7 ...
```

5. After a success message is shown, we can run the project by typing **run** in the command prompt

```
[hrtool] $ run
[info] Updating {file:/C:/Users/ADNAN/Downloads/projectp032-hr-tool-interne-positionsvermittlung-Add_styling-11ba77721c6
843fecc406ce78fe5c95db5d61b39/HR_Tool/HR_Tool_V2/}root...
[info] Resolving org.scala-lang#scala-library;2.11.1 ...
[info] Resolving com.typesafe.play#twirl-api_2.11;1.0.2 ...
[info] Resolving org.apache.commons#commons-lang3;3.1 ...
[info] Resolving org.apache.commons#commons-parent;22 ...
[info] Resolving org.apache#apache;9 ...
```

6. Once the command prompt reads server started we can go to **localhost:9000** in our web browser and use our software

```
[info] Done updating.
--- (Running the application, auto-reloading is enabled) ---
[info] play - Listening for HTTP on /0:0:0:0:0:0:0:0:9000
(Server started, use Ctrl+D to stop and go back to the console...)
```

## Usage

In order to do get rid of the manual system of writing mails to the HR department for switching positions of employment within the university, the **HR Tool Interne Positionsvermittlung**, is a web based application for providing employees (Job Seekers) a platform to share their profiles with Professors and other potential Job Providers ( Recruiters) within the university, thereby automating the task for the HR department (Admin)

The three main user roles for the portal are : **Admin, Recruiter and a Jobseeker**

### 1. Jobseeker

- A jobseeker is a university employee seeking a job on the portal and wants to share his profile with recruiters for a job in a specific category
- A Jobseeker can create an Account by clicking on the Sign Up button on the Login Page
- After successfully creating an account the Job Seeker has to complete his profile in order to let recruiters view it amongst other profiles in the category in which he is looking for a job
- The job seeker has an option to update his profile and CV even after he has completed his profile

### 2. Recruiter

- A recruiter is an employee of the university who wants to find potential employees on the portal
- In order to get access to job seeker profiles in a specific category , the recruiter has to click on 'Hire People' on the login page
- The recruiter can then submit his details to the admin and request for access to job seeker profiles
- Once provided access , he has the option to view profiles of users in that category

### 3. Admin

- In our specific case, the admin is the owner of the portal and has access to view all the profile on the portal
- The admin has the rights to enable and disable job seeker profiles
- The admin has the rights to add recruiters , revoke their access to the portal , grant them access to the portal and decide what categories they will get access to.