Software Engineering

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Computer Science

Development Manual

Hootie and the Swagfish
Akureyri

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Introduction

This manual will show step by step how to build and setup the project on a fresh Ubuntu machine. Not much is required to get this project up and running but you will need a github account and an access to terminal either with an Ubuntu machine or an terminal emulator for example Putty or Bash on Ubuntu on Windows.

Setup

First thing first is setting up git on his computer by running the command:

```
sudo apt-get install git
```

After you have installed git you can run the command:

```
git --version
```

And you should see something like this:

```
git version 2.1.4
```

Now git should be up and running on your computer so next thing you'll have to do is configure your setting by running these commands:

```
git config --global user.name "YourName"
git config --global user.email "YourEmail@somthing.com"
```

Next up is cloning the git repository onto your computer/ssh client using the command:

```
git clone https://github.com/swagfish/TicTacToe
```

Before you can start working on the project you will have to install Gradle 3.1 and Java 1.8. To install Gradle 3.1 you will have to run these commands

```
sudo apt-get install gradle
curl -s https://get.sdkman.io | bash
source "~/.sdkman/bin/sdkman-init.sh"
sdk install gradle 3.1
```

To install Java 1.8 you will have to run these commands:

```
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update
sudo apt-get install oracle-java8-installer
```

After you have installed Gradle and Java you can run the commands:

```
gradle --version
java -version
```

And you should see something like this:

```
Gradle 3.1
Java version "1.8.0_101"
```

After that you can build the project using the command:

```
./bin/run_all
```

By running this command it will execute all the script files in the bin folder. These scripts will run in this order:

First we run the command clean and it simply removes the build directory, thus cleaning everything including leftovers from previous builds.

```
./bin/clean
```

The compile command simply compiles the code

```
./bin/compile
```

The check_code command simply checks if the code is valid.

```
./bin/check_code
```

The unit_test command tests all unit tests for the project.

```
./bin/unit_test
```

The package command produce a runnable package Jar file.

```
./bin/package
```

The deploy command take the packaged artifact and runs it.

```
./bin/deploy
```