

# 1 Installation of the pre-built Project

## 1.1 Prerequisites

### Software

**Operating System:** The project should run on all systems capable of running Java 7. However it was only tested on *Windows XP, SP 3* and *Ubuntu 10.04* or newer. Executability can not be guaranteed.

**Installed Java Version 7:** The latest Java release can be downloaded at <http://www.java.com/en/download>.

### Hardware

**Internet Connection:** A connection to the internet is needed in order to download map data and execute online geocoding requests.

**RAM:** At least 2 GB RAM are recommended, optimal are 4 GB RAM or more.

**Disc Storage:** 1.1 GB for the main application and additional 5 GB for temporary map data are needed.

**CPU:** A dual-core CPU with 2 GHz or more is recommended.

## 1.2 Installation

The Install-Package is a prepacked zip-archive. To install and start the application simply unpack the archive and launch the program via `launcher.jar`. On most systems jar files can be executed by double-clicking the file. Alternatively the console of your system can be used.

## 1.3 Proxy-Settings

The application tries to read the proxy settings of your system. In case the mechanism fails the settings can be adjusted by editing the template in the file `frontend/defaults/preferences/prefs.js`.

# 2 Developer Installation

## 2.1 Software needed by Developers

**Web Browser:** A recent, modern web browser is needed, e.g. Firefox 13 or Chrome 21. For debugging in Firefox we recommend using the add-on 'Firebug'.

**Play-Framework:** The backend is based on the play-Framework Version 2.0.1. Therefore play must be registered in the environment path. Play can be download on this site <http://www.playframework.org/>.

## 2.2 Prerequisites for Starting the Application in Developer Mode

In order to access the street data of Germany and the general database in developer mode you need to copy the file 'streetData.db' (downloadable in sourceforge) and the folder 'db' to the 'backend'-directory of your project. It is also possible to create a Symlink<sup>1</sup>.

The online geocoding functionality uses the Yahoo! Placefinder web-API. Therefore you need to create your own Yahoo!-account and add your appId to the 'APPID' String in 'app/de/tdpe/team2/geocoder/impl/yahoo/YahooUrlGenerator.java'. Yahoo!-accounts can be created here: <http://developer.yahoo.com/dashboard/createKey.html>.

## 2.3 Starting in Developer Mode

1. change into the 'backend'-directory of the application
2. start up the program using

```
play start
```

After some time the following output should appear:

```
Play server process ID is 10472
[info] play - database [default] connected at jdbc:h2:./db/data
[info] play - Application started (Prod)
[info] play - Listening for HTTP on port 9000...
```

If this fails due to missing databases use

```
play run
```

and click on the button in the header of the webpage now reachable via localhost:9000.

3. When the backend was started (not necessarily on the same computer) the frontend can be started by opening 'frontend/chrome/content/application.html'. You can set up the IP-address of the backend-computer in the file 'frontend/chrome/content/js/config.js'.
4. In order to open up the java code in Eclipse or Netbeans, use

```
play eclipsify
```

in the 'backend'-directory. This will create an Eclipse-project that can also be imported by Netbeans (please note that Netbeans will import the project in Java version 1.5; this has to be adjusted in the Netbeans project settings).

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<sup>1</sup>Linux: ln -s, Windows: mklink

## 2.4 Building an Install-Package

To build up an install-package a Linux system and the complete source code is needed. Change into the 'deploy/build'-folder and start the „build“-script with

```
./build.sh
```

Please ensure that you are connected to the internet and Java 7 is installed. You also should have the street-Data.db included in the backend-directory.

## 2.5 Executing the Unit-Tests

A part of the Unit-Tests can be started via play with

```
play test
```

. Another part can only be run via Netbeans or Eclipse.

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