Postal Code Service:

Technical Documentation

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# Scope of the document

This document aims to provide instructions and guidelines on the technical aspects of **Postal Code Service** project.

# Development Environment Setup

In order to set up the project you will need to follow the steps below:

## 1/ Java JDK 8 (**64bit**)

Download and install Java JDK 8 (**64bit**) from the link

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

## 2/ Eclipse STS (**64bit**)

1. Download and extract Eclipse STS to c:/sts from <http://download.springsource.com/release/STS/3.9.5.RELEASE/dist/e4.8/spring-tool-suite-3.9.5.RELEASE-e4.8.0-win32-x86_64.zip>
2. Create a folder in c:/postal-code-service
3. Run Eclipse STS.
4. Use c:/workspace as default workspace.

## 3/Import project and Git repository

The project source code is hosted on **GitHub** under the URL below:

https://github.com/JalalSordo/postal-code-service.git

**Note**:

Up to the moment when this document was written two branches exist:

master (main stream of the development )

new-gui (the next generation GUI of Postal Code Service)

1. In eclipse STS click **File> Import…**
2. In the new Window Select **Git> Projects from Git** and click **Next.**
3. Select **Clone URI** and click **Next.**
4. Paste the Git repository URL above in **URI Field**.
5. In the **Authentication** section put your **GitHub** Login and Password and click **Next**.
6. Select **master** branch or **another** branch if you are interested in, click **Next**.
7. In the Destination/Directory use c:/postal-code-service
8. Keep **remote name** as **origin** and click **Next**.
9. Select Import as **general project** click **Next**.
10. In this last window you can define a **name** for the project (If you are targeting a specific branch it is recommended to append the branch name to the **name of the project** e.g.: *postal-code-service-branchName*), click **Next**.
11. Now in the Eclipse Projects tree (far left) right click on the newly imported *postal-code-service* project.
12. Select **Configure**> C**onvert to Maven project**

In order to create a run configuration please follow the steps below:

1. Start the web server application (*Run As…* > *Spring Boot App*).
2. Open your Web Browser and go to <http://localhost:8080/swagger-ui.html>. Now you should see the Swagger Api Documentation of Postal Code service RESTful API.

|  |  |  |  |
| --- | --- | --- | --- |
| Operating System | Architecture | Run Configuration Name | Goals |
| Windows | 64 | postal-code-service (win64 build) | clean package -Darch=win64 |
|  | 32 | postal-code-service (win32 build) | clean package -Darch=win32 |
| Mac | 64 | postal-code-service (mac64 build) | clean package -Darch=mac64 |
|  | 32 | postal-code-service (mac32 build) | clean package -Darch=mac32 |

## 5/Executing the project:

After executing one of the run configuration, you will find the resulting jar with following naming:

**Postal Code Service-<version>-<OS><architecture>bit.jar**

Example:

In the bottom of the console after a successful build you can find full path to the resulting jar:

with assembly file: **C:\postal-code-service-master\target\Postal Code Service-1.7-win64bit.jar**

[INFO] ------------------------------------------------------------------------

[INFO] BUILD SUCCESS

[INFO] ------------------------------------------------------------------------

[INFO] Total time: 20.685 s

[INFO] Finished at: 2019-05-11T23:35:33Z

[INFO] ------------------------------------------------------------------------

1. Press **Windows+R** and type **cmd**.
2. Type java –jar **C:\postal-code-service-master\target\Postal Code Service-1.7-win64bit.jar**
3. You can find the icon of **Postal Code Service** in task bar.

## Postal Code Service Home Folder

The folder is auto generated automatically by ticket easy in the <user.home> folder at the first run.

### Structure

Postal Code Service/

├── drafts/

│ └── image(n).png

├── libs/

│ └── JNativeHook.dll

├── logs/

│ ├── application.log

│ └── application-<date>.zip

├── temp/

├── logo.png

├── icon.png

├── application.properties

└── log4j2.xml

### Description

|  |  |  |
| --- | --- | --- |
| File/Folder | Description | Required |
| Postal Code Service/ | The root folder | Yes |
| drafts/ | The folder where the captured images will be stored | Yes |
| image(n).png | An example image captured during the execution of Postal Code Service. | N/A |
| libs/ | The libs folder contains native files that interfaces with system to hook the screen capturing events. | Yes |
| JNativeHook.dll | Platform specific file that interfaces with OS to allow screen capture. | Yes |
| logs/ | The logs folder where all Postal Code Service logging is located. | Yes |
| application.log | The current log file. | Yes |
| application-<date>.zip | This file contains a zipped log, this happens automatically when the application.log reaches 10MB this can be changed in log4j.xml | N/A |
| temp/ | Used by Postal Code Service at the moment of ticket submission. | Yes |
| logo.png | A custom log that can replace the default logo of Postal Code Service recommended size: 254x54 pixel. | No |
| Icon.png | A custom tray and windows icon that can replace the default icon of Postal Code Service, recommended size: 50x50 pixel. | No |
| application.properties | The main settings file of Postal Code Service more details below. | Yes |
| log4j2.xml | The logging configuration of Postal Code Service can be set here such as the Level of logging, and roll out policy, by default when the file main log exceeds 10Mb it will be zipped and new file will be created that holds the current logging. | Yes |

## Explaining application.properties

The file is by default located in <user.home>\Postal Code Service it contains all possible settings of **Postal Code Service**, below is the description of each key in this file:

|  |  |  |
| --- | --- | --- |
| Key | Description | Required |
| username | Username of **ServiceNow** **API** account | Yes |
| password | Password of **ServiceNow** **API** account | Yes |
| sn\_incident\_create | URL of **ServiceNow** **API** incident creation upload endpoint | Yes |
| sn\_upload\_file | URL of **ServiceNow API** file upload endpoint | Yes |
| win\_log\_hours\_interval | The duration (hours) of windows logs to be retrieve while submitting a ticket. | Yes |
| language | System language **(Danish=da,English=en**) defaults to OS language. | No |
| capture\_limit | Number of images to be uploaded to **ServiceNow** for an incident, **defaults to 10 images.** | No |
| additional\_files | Paths to additional files or directories to be uploaded with the ticket. | No |
| contact\_information | A Contact information to be shown on the bottom of the GUI, use html to break line. E.g.: <html>first line<br>second line<br></html> | No |
| disclaimer | A Disclaimer to be shown on the bottom of the GUI, use html to break line. E.g.: <html>first line<br>second line<br></html> | No |

### Example:

username=help

password=help

sn\_incident\_create=https://businessnowdemo4.service-now.com/api/now/table/incident

sn\_upload\_file=https://businessnowdemo4.service-now.com/api/now/attachment/upload

win\_log\_hours\_interval=4

language=da

capture\_limit=5

additional\_files=c:/folder1

contact\_information=First\_Name Last\_Name

disclaimer=<html>this application send tickets to the Service Desk it may not be treated immediatly<br>If you require live/immediate support please call XXXX</html>

# Regression Campaign: Analysis and Automated Tests

N/A

# Sonar/Code coverage stats

N/A

# Continuous Delivery:

N/A