

heig-vd

Haute Ecole d'Ingénierie et de Gestion
du Canton de Vaud

Bachelor Thesis

GeoTwit – Logbook

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Notice that you can find details of all hours in the “Hours.ods” file.

Week 1 – 22.02.2016

Basic research and introduction of Scala and the Play framework, waiting to have more information on the project's progression.

Week 2 – 29.02.2016

First meeting with my project's supervisor – Mrs. Fatemi – concerning the general progression of the project as well as the tasks list. During this week, I produced a draft of the specifications, according to the already available instructions as well as an initial planning by week on what will be product. In addition I began to do some research on the Twitter's APIs.

Week 3 – 07.03.2016

Meeting with Mrs. Fatemi; research on the Twitter APIs, especially on the Streaming API as well as the Twitter4J library and analysis and research on interesting subjects.

Week 4 – 14.03.2016

Meeting with Mrs. Fatemi and planning of the tasks to do during this week: try to find Switzerland-relative subjects with a high streaming rate (look in particular in medias and big swiss corporations; try to make a planning of the news), analyze the Google Maps' and the OpenStreetMap's APIs and begin to test the Twitter4J library and the Twitter's Streaming API. All these tasks were properly done.

Week 5 – 21.03.2016

Meeting with Mrs. Fatemi and planning of the tasks to do during this week: finalize specifications, produce first tests on the Leaflet library by using OpenStreetMap and continue research on the Twitter's APIs and the Twitter4J library. All these tasks were properly done.

Week 6 – 04.04.2016

Weekly meeting; determine the way to obtain the best ratio of Tweets having location information among research with keywords AND location, as well as the research with only keywords and finally with manual filtering of the Tweets by the location. Also compare various programming languages in the USA (at the jobs level for example), visualize research's results of the Tweets on the map and begin the mock-up's production if time allows.

I worked well on the map and finished the other tasks, but had no time for the mock-up.

Week 7 – 11.04.2016

Weekly meeting: finalize the display of Tweets on the prototype application and produce the GeoTwit's mock-up as a priority. If time allows, produce first grouping analysis (at the map's display and the data transmission from the server's levels), analysis of the percentage of Tweets having geolocation tags by various input parameters, and finally research of scenarios providing good results.

I completed the primary tasks, but had no time to do the "if time allows" tasks.

Week 8 – 18.04.2016

Unfortunately, the meeting cannot take place during this week. I will thus continue what was given to me last week.

I completed the "if time allows" tasks of the previous week.

Week 9 – 25.04.2016

Meeting with Mrs. Fatemi: we spoke about the mock-up so there is updates to do in it ; I also will try to draw polygon all around a country when an user double-clicks on it.

All these tasks were properly done.

Week 10 – 02.05.2016

Meeting with Mrs. Fatemi; I analyzed the Play Framework and began to build the application.

Week 11 – 09.05.2016

Week 10 was a particularly busy week for me so I had no time to work for the Bachelor.

Week 12 – 16.05.2016

Meeting with Mrs. Fatemi; reading of the Play Framework's documentation and production of test-applications, creation of the GeoTwit application's basics and update documentations.

Week 13 – 23.05.2016

Meeting with Mrs. Fatemi; importation of the project in the IntelliJ IDE and integration of the Twitter4J library in GeoTwit.

Week 14 – 30.05.2016

Development of the search-page's GUI and translation of the analysis part of the documentation from French to English.

Week 15 – 06.06.2016

Translation of the analysis and specifications parts of the documentation and writing of the progress report.

Week 16 – 13.06.2016

Writing of the progress report and production of analysis concerning the Euro2016 event.

I am going to return my progress report at the end of the week.