DVA231 – Project

Weather Compare

Group members & scopes

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Frontend	Frontend	Backend	Backend, Database

1 Idea

We want to create an website where you get weather informations from different weather services (at least 3), because there are often differences. The user gets several results in the same view side by side. Then we calculate the average of all results an show this too.

In this case we have to ascertain which is the smallest cut quantity by the informations and this we will use.

The user should be able to search for a town and get the results.

The result should include:

- current weather information (temperature, wind speed, sunny, cloudy, rainfall quantity, ...)
- weather forecast if it's possible

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2 Short description

A Web-Application which compare the results of various weather services (at least 3).

- The results (smallest cut quantity of selected weather services) should be shown side by side in boxes.
- There is another box with the average values of the various results including min and max of the original values.
- The user should be able to search for a town.
- The searched towns by user should be store and shown to the user (in a list?).
- Results should be saved in a database.

Only make an API call if the last update of this town is at least 1 hour (or longer?) ago.

- If is possible show an weather forecast.
- Different user level (admin, superuser, user)
 - \circ admin \rightarrow is able to delete/reset the database and all what superuser is allowed
 - o superuser → ???
 - o user → normal user

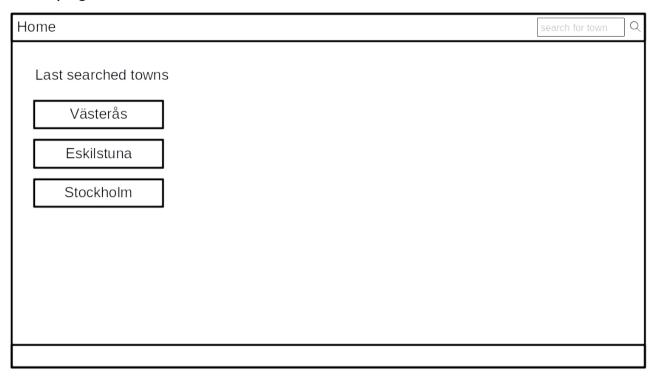
Nice to have:

- Search for an country and get the big towns.
- User specific settings for the users.
- User can rearrange the order of the searched town.

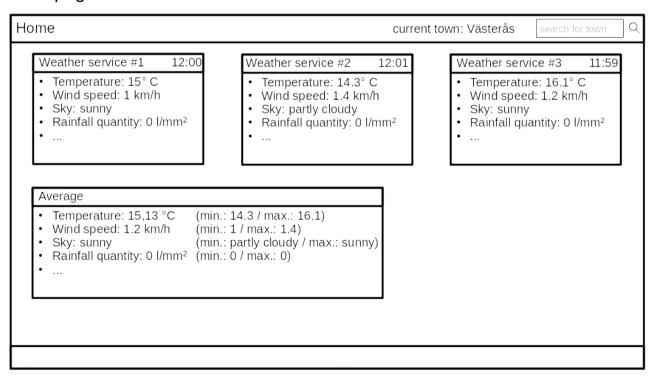
3 Prototype

3.1 Large screen

Homepage



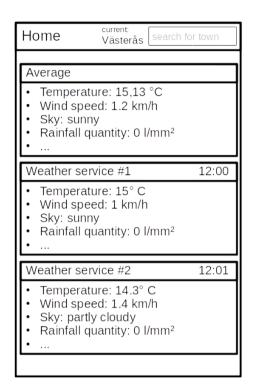
Town page



3.2 Handy screen

Homepage & Town page





4 Requirements

4.1 Technical

• Server: Apache Server

Used programming language (backend): PHP

• Database: MySQL

4.2 Programming

Programming model: Model-View-Controller (MVC)

Frameworks: Bootstrap (responsive), JQuery

5 Organisation / Collaboration - Tools

• Trello → Status of the project

• Teampage: https://trello.com/dva231

o Project-Board: https://trello.com/b/4e3DfyAY/project

- Database-Board: https://trello.com/b/a21bOx2Y/database-development-database-interfaces-php
- GitHub → Code of the project
- Facebook Chat → Communication