COMSM0104 Web Technologies Final

The Weather Helper

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1. Overview

Our website was built with Vue.js, Express, Element UI, axios, and SQLite3. We separated the back end from the front end, there are three shell commands needs to run. First of all, users need to enter the *Weather-Helper* folder and run 'npm install' for installing all of module dependencies. Secondly, users should execute 'npm run dev' in order to open our website. Finally, you need to move to *service* folder (open another terminal), and then run 'node app' for opening our server.

This website allows users to search current weather information and forecast for any location including over 200,000 cities. Users can register an account for themselves by filling personal information and then log in. We also provide an account for testing (username: test password:123456). When users logged into user center, they can modify their personal information and password. If users do not want to stay in the personal center and close this session, they can click logout button in the upper right corner.

Based on our preliminary version, we fixed several bugs in this website:

1) Captcha is working now.
2) We keep the session of searching weather information alive.
3) Users can quickly return the home page by clicking the logo in the upper left corner.

Due to the limited time, we have to abandon the implementation of some extension functions such as night mode. In the future, we will spend time on improving this website.

2. Self-assessment

- ✓ HTML: A
  We used Vue.js framework to generate HTML pages.

- ✓ CSS: A

We used Element-UI toolkit to generate CSS and we also add a variety of CSS styles via some different methods such as external CSS file.

- ✓ JS: A
  We used JavaScript to implement all of our functions of this website.

- ✓ PNG: A
  We drew the background image by ourselves using Photoshop. We handled several layers and modified transparency for our background picture.

- ✓ SVG: A
  We searched a lot of icons about weather, and then create svg pictures that we need using Inkscape.

- ✓ Server: A
  We used express framework to implement our server and use axios package to deal with our HTTP get/post requests, we also dealt with a lot of things such as CORS, session storage.

- ✓ Databases: A
  We installed SQLite module for our server and created an SQLite database for storing our data. We also used SQL to create table, query data, update data, insert data.

- ✓ Dynamic pages: A
  Our website is working fluently and there are various pages which have different functions.

- ✓ Depth: A
  This website allows users to search weather information of any city in the world by calling *openweathermap* API. To provide better user experience, we designed a beautiful interface. We also tried to use various frameworks and packages for developing this website, such as Vue.js, express, axios and Element-UI.