

Design and Implementation Report

Design

According to the schematic given in teacher's requirements, the app should be a mashup of a city's information from multiple perspectives.

Perspectives

What perspectives exactly is needed in a mashup application like this? The schematic teacher provided includes the following:

- City Brief Information
- Economy
- Environment
- Society
- Technology
- City Data
- Map

From these I refined my design and provide the following:

- City Brief Information
- GDP
- Weather and AQI
- City News
- City Position on Map

Implementation

I use `flask` as my backend framework, partly because I worked with it few times earlier and it's light-weight enough to describe just a few APIs.

For frontend, I have no choice but to use `vue` and `Element UI` as I'm totally inexperienced in frontend development field.

In backend, I try to scrap information from Baidu as I can't find APIs that fulfill my needs. (That's also why sometimes all the things go wrong :>)

In frontend, I implemented loading animation and error handling when things goes wrong. :/ pops up if you did bad things.