1. Presentation: **know about the project & how to achieve it**
2. Get all work done
3. Consider page compatibility

??? (JavaScript library)

???? How Heroku collaborate

1. File structure

|  |  |  |  |
| --- | --- | --- | --- |
| Page | Index.html | Home page: | About Project |
| Plot.html | Dashboard page | JavaScript read Flask API jsonfied data and use that data to create the dashboard in Plot html  Example: Project 2:  App.py – app.js – html  Knowledge point:  ? Flask how to read database (10.3.10 (Flask with ORM)  ? js to create the dashboard using data  ? write html in the right format |
| Station.html | Station page | Step:   1. Flask to read station database 2. Station html to create a page to introduce all stations (their states, covering sightseeing), and a map   (with dropdown menu to navigate)  (module 12.3 covering the same topic)   1. Flask to render Station html (module 12) 2. JavaScript to use that data to create a map |

**Why we are doing it:**

We are meteorologist working in a weather organisation in Brazil and want to get weather info from time to time.

**Data context:**

year 2020, 12 months at midday for 24 stations (to ensure not exceed 10K rows)

**Charts Proposal:**

Chart 1:

Type: table

Info: text information of stations:(LAT, long, height, state)

Chart 2:

Type: basic map with a marker

Info: information of stations

Chart 3:

Type: bar chart

Info: total precipitation by month for specific station

Chart 4:

Type: dial chart

Info: average wind speed for that station

Backup:

Type: bubble chart / scatter plot

Info: temperature / humidity

What project requires：

1. Using interactive means to tell a story of datasets
2. 10 min presentation to describe your procedure
3. Technical requirements:

* Some necessary coding language

－　html/CSS

* JavaScript
* Database
* Python Flask
* JS library
* At least 100 records
* User-driven interaction (menus, dropdowns, textboxes)
* 3 views