

Wandering Lights | Sophie Liu (Quacky), Ryan Wang (Jack), Jonathan Wu (Loki), Roshani Shrestha (Pete)

SoftDev

P01: ArRESTed Development - Design Doc for P01

2021-12-07

Time spent: 1.3 hours

Program Components

Python:

- This will be used to build the website and access the APIs.

Flask:

- This will be the server our website will use.

HTML:

- Provides the text/skeleton of the website.

APIs:

- Allows us to retrieve data and use it for our website.

CSS:

- We will use Bootstrap as our front-end framework because we believe it looks better visually. There is also a wider color palette.

Home Page:

- There will be text boxes, check boxes, and a general submit button for the user to input some basic information. When the information is submitted, it will be used to suggest a vacation idea for the user.
- There will be a check box to indicate whether to completely randomize a vacation suggestion or not (will not require or take inputted information).
- Inputting information is optional. If the user chooses to input no information at all, they will need to check the box for randomizing the vacation suggestion. Information that the user can input:
 - the country where the user is currently living in (text box)
 - subjects of books that the user likes (dropdown menu)
 - languages that the user knows (dropdown menu)
 - continents that the user is interested in traveling to (check boxes)

Vacation Page:

- This will show up after the user submits the information in the home page.
- The page will display the name of the suggested country, the forecast for the capital city, some holidays in the country the user could learn about, a suggested activity, and a suggested book to read.

- The categories listed on the page are all cards that expand once clicked. Once clicked it will show all the corresponding information that matches the data checked off on the home page.
- Displays an image/video of the place or something else associated with the vacation as well.

Database Organization

N/A - we are not planning to use a database as of right now.

APIs

Countries to visit:

REST Countries:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_RESTCountries.md

Activities to do:

Bored API:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_BoredAPI.md

Books to read:

Open Library:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_OpenLibrary.md

and/or

Google Books:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_GoogleBooks.md

The forecast for an area in the country:

Weather API:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_WeatherAPI.md

Rain Viewer:

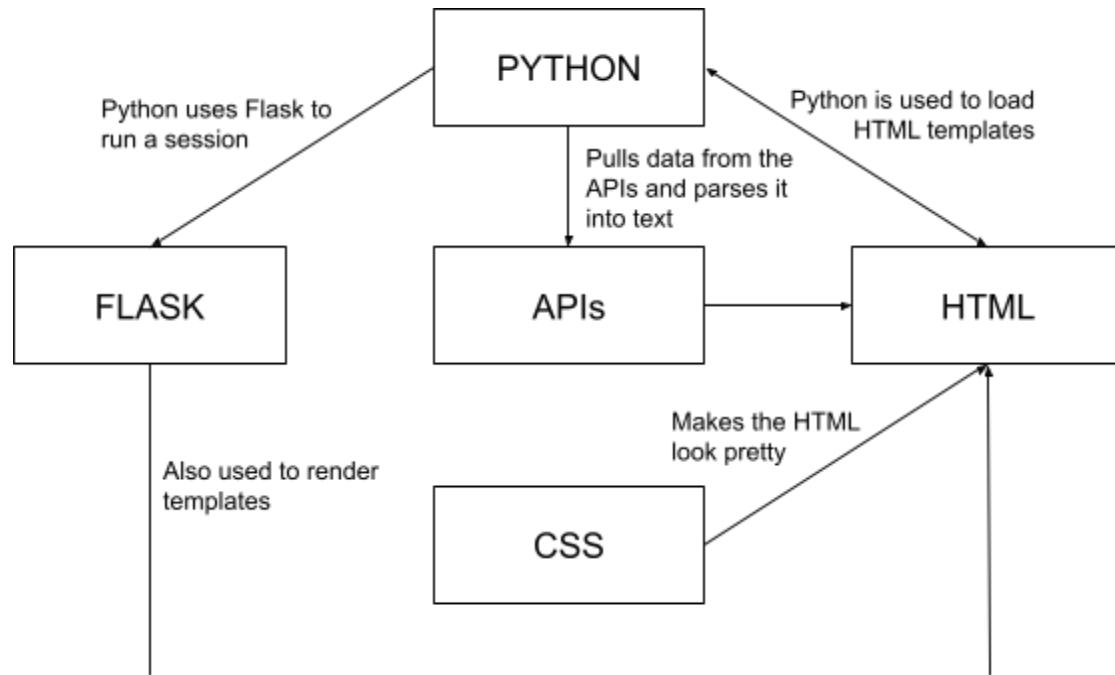
https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_RainViewer.md

Holidays in the country:

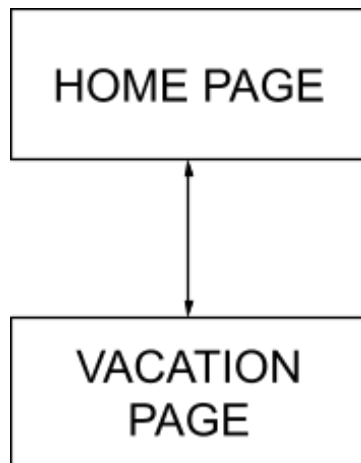
Abstract Public Holidays:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_AbstractPublicHolidays.md

Component Map



Site Map



Home Page:

Name of the site

Brief description

Information to input:

Text boxes and check boxes that the user can use:

☐
☐
☐
☐

Vacation Page:

Back Home

Country

Weather

Holidays

Activities

Books

Tasks

Sophie Liu - frontend/bootstrap/html

Ryan Wang - backend/python/api/flask

Jonathan Wu - backend/python/api/flask

Roshani Shrestha - frontend/bootstrap/html

Target “Ship” Date

December 23rd, 2021