

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

SoftDev

P01: ArRESTed Development - Design Doc for P01

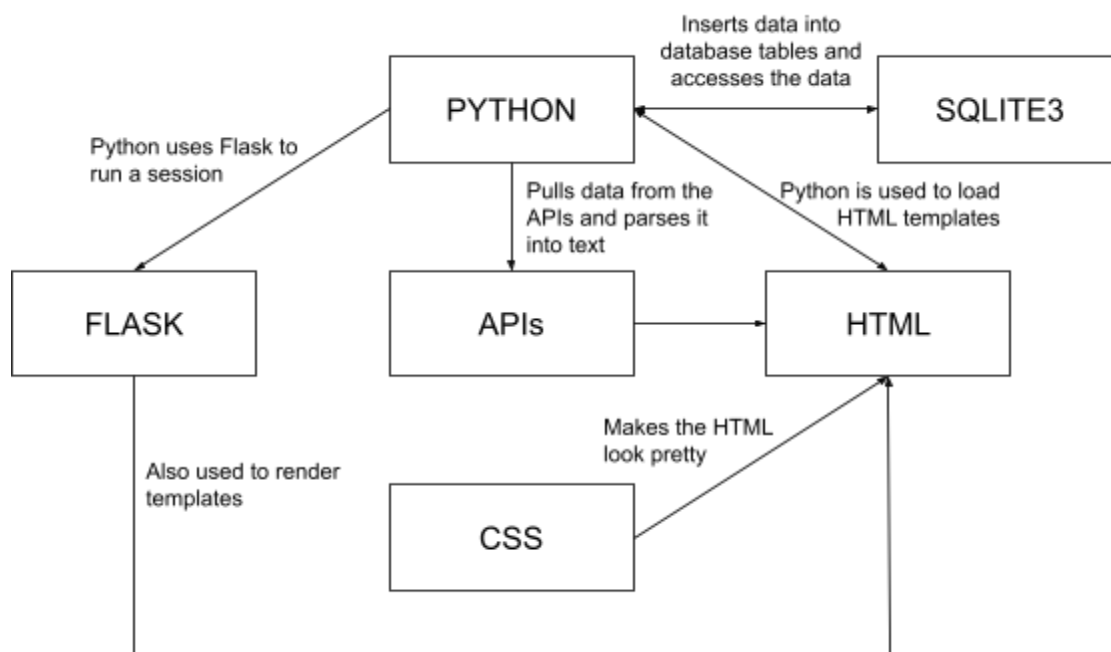
2021-12-07

time spent: ~3.3 hours

## Project Description

Vacation Time is a website dedicated to providing suggestions on vacation time, places, and activities based on user preferences. The user is first directed to a login page where they can either log in to their account or press the register button to register a new account. After logging in, the user is directed to a home page, where they can input and submit some information to get a vacation idea. Not inputting any information and submitting would completely randomize the idea given. The user can save any vacation ideas they like and view these saved ideas in a separate page

## Component Map



## Program Components

COLOR PALETTE: 227c9d,17c3b2,ffcb77,fe9ef,fe6d73

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.

SQLITE3:

- This will store all the information regarding usernames and passwords, countries, suggestions, etc.

CSS:

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

Login Page:

- The user can input their username and password in the text boxes before submitting by clicking the submit button.
- After submitting, the user is redirected to the home page.
- If the user doesn't have an account, they can click the register button.
- They can also just go back to the homepage.

Register Page:

- The user can input a new username, new password, and retyped password in the text boxes before submitting by clicking the submit button.
- Username has a requirement of being between 5-15 characters and password must be between 8-50 characters.
- If they already have an account they can go back to the login page.
- The user can also choose to go back to the homepage.
- After submitting, the user is redirected to the login page.

Home Page:

- On the top is the navigation bar to either login, randomize, or go back to the home page.
- Next, it displays the purpose of the website leading to a button that will randomize a vacation by default.
- After that, it lists the four factors that the website will randomize the vacation on: language, region, party size, and book subject interests.
- Following that, it will have the option to either login or register an account.
- On the bottom will be a footer of the team roster and name.
- If you are logged in:
  - There will be a bunch of new features in the navigation bar such as viewing saved ideas, customizing the factors and logging out.

- In place of the factors for randomizing, there are instead three buttons for: randomizing vacation, customizing the factors, and viewing saved vacations.

#### Choose/Questions Page:

- There will be dropdown menus, 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.
- Inputting information is optional. If the user chooses to input no information at all, they can just press the submit button and the vacation idea will be completely randomized.

Information that the user can input:

- the number of people in the user's party (dropdown menu)
- 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)

#### Randomize/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.
- There will be a save button so that the user can save the ideas they like the most.

#### Saved Vacations Page:

- This will display the user's saved vacation ideas, which includes all the information accompanying it.
- They will be able to access more than one saved vacation idea.
- It is saved from oldest to newest.

## Database Organization

User data.

Username (TEXT)	User ID (INTEGER, Primary key)	Password (TEXT)
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Saved Vacation Ideas

User ID (INTEGER)	Name of Country (TEXT)	Forecast for the Capital City (TEXT)	Holidays in the Country (TEXT)	Suggested Activity (TEXT)	Suggested Book to Read (TEXT)
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## APIs

Countries to visit:

REST Countries:

[https://github.com/stuy-softdev/notes-and-code/blob/main/api\\_kb/411\\_on\\_RESTCountries.md](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](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](https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_OpenLibrary.md)

The forecast for an area in the country:

Weather API:

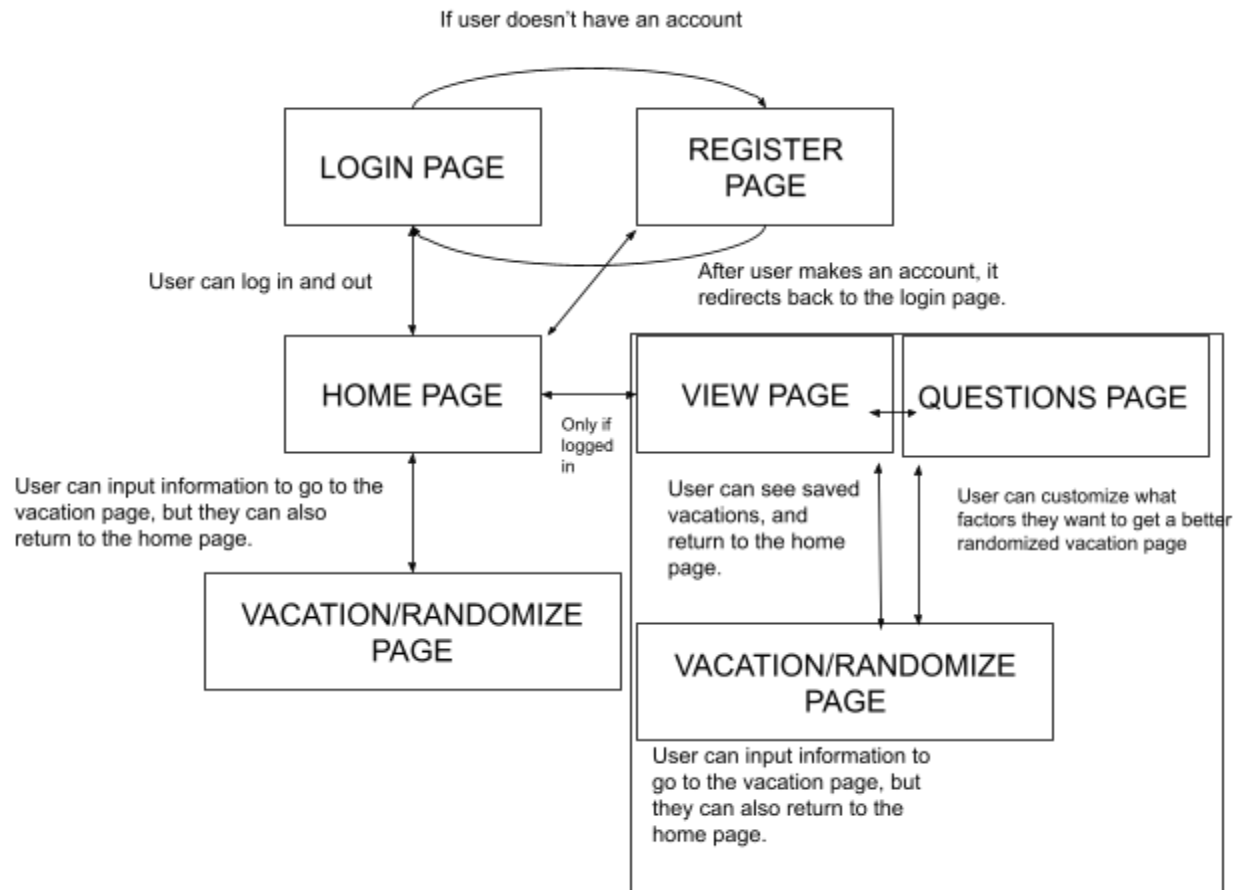
[https://github.com/stuy-softdev/notes-and-code/blob/main/api\\_kb/411\\_on\\_WeatherAPI.md](https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_WeatherAPI.md)

Holidays in the country:

Abstract Public Holidays:

[https://github.com/stuy-softdev/notes-and-code/blob/main/api\\_kb/411\\_on\\_AbstractPublicHolidays.md](https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_AbstractPublicHolidays.md)

# Site Map



Login Page:

Welcome to Vacation Time!

Login:

Username:

Password:

Login

Register

Homepage

Register Page:

Register Your Account

Register:

Username:

Password:

Retype Password:

Register

Login

Homepage

Home Page (if logged in):

Home View Questions Logout username Randomize
Welcome to Vacation Time! Brief description
<div>Randomize</div>
<div>Customize factors</div>
<div>View saved vacations</div>
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Home Page (if NOT logged in):

Home Login Randomize
Welcome to Vacation Time! Brief description
<div>Randomize</div>
Factors: <ul style="list-style-type: none"><li>- Language</li><li>- Region</li><li>- Party Size</li><li>- Book Subject Interests</li></ul>
<div>Login</div>
<div>Register</div>
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## Input/Questions Page

Home View Questions Logout username Randomize
Questions!
Number of people in party?
Book subjects you're interested in?
Languages you know?
Regions you would like to visit?
Submit

## Randomize/Vacation Page (if logged in):

Home View Questions Logout username Randomize
<div>Country</div> <div>Forecast</div> <div>Holidays</div> <div>Activities</div> <div>Books</div> <div>Save</div>



Randomize/Vacation Page (if NOT logged in):

Home	Login	Randomize
<div>Country</div> <div>Forecast</div> <div>Holidays</div> <div>Activities</div> <div>Books</div>		

View:

Home	View	Questions	Logout	username	Randomize
<div>Saved Vacations</div> <div>Country: Forecast: Holiday: Activity: Book</div>					

## Tasks

Sophie Liu - frontend/bootstrap/html

Ryan Wang - backend/python/api/flask

Jonathan Wu - backend/python/api/flask

Roshani Shrestha - frontend/bootstrap/html

## Target Date

January 4th, 2022