A Web App called nearby

This is a web app about a project for CS242

Abstract

Project Purpose

Help people find friends with same interests nearby, when they are out for study, work, etc.

Project Motivation

Would like to play cod16 but hard to find teammates, stay home too much time and worry about new virus cases in champaign.

Technical Specification

- Platform: tornado
- Programming Languages: Python
- Stylistic Conventions: Airbnb JavaScript Style Guide

Functional Specification

Features

- Everyone can post their information on the website with specific hashtags.
- User can search the hashtag to get relevant information
- Allow users to check updates of Covid-19 cases near them according to their current location
- Have clock timer function so people stay at home can use this when cooking or doing sport

Scope of the project

- Anonymous now, may need to login later

Brief Timeline

- Week 1: Construct the basic web page and components with basic UI. Users should be able to put their information.
- Week 2: Implement hashtags and search functions for hashtags. System only store 1000 most recent posts.
- Week 3: Improve UI, use apis to allow users get covid19 information nearby.

Rubrics

Week 1

Category	Total Score Allocated	Detailed Rubrics
Function homepage	4	0: Didn't implement anything 3: implemented homepage 4: completed homepage and UI
Function user page	4	0: Didn't implement anything 1: implemented relevant pages, eg nearby post page 2: completed UI
Function post	5	0: Didn't implement anything 3: implemented post form 5: completed function post (api for post)
Test error	6	0: Didn't implement tests 3: implemented homepage test with error handling 6: completed test error (pages

		render correctly, handle error when no internet connection, etc)
Test manual	4	0: Didn't implement tests 2: implemented manual test (2 page) 4: completed test manual test (>4 page)

Week 2

Category	Total Score Allocated	Detailed Rubrics
Function Timer	6	0: Didn't implement anything 5: implemented Timer with alarming 6: completed Timer with basic UI
Function search	6	0: Didn't implement anything 4: implemented forms for search function 6: search form can automatically pop up relevant search result
Function get	5	0: Didn't implement anything 1: can return sth without error 3: return desired information with hashtags (based on search form) 5: return hashtags inside 1000 range
Test Search & get	6	0: Didn't implement tests 3: user can search and get some result without error 5: user get correct result using search 6: added error handling for invalid input for search

Category	Total Score Allocated	Detailed Rubrics
Test Timer	4	0: Didn't implement test 4: Timer could run correctly with alarming

Week 3

Category	Total Score Allocated	Detailed Rubrics
Function virus information page	5	0: Didn't implement anything 1: implemented page (can render) 3: implemented UI 5: page shows CDC information for virus
Function nearby info	5	0: Didn't implement anything 2: can correctly get user's location 5: report new added cases in user's location, as detailed as possible(for information can get online)
Function return value	6	0: Didn't implement anything 3: return url for music 5: return url for music from different resources 6: completed function return value
Test rendering	6	0: Didn't implement tests 6: can render pages correctly
Test nearby info	6	0: Didn't implement tests 3: correctly get user's location 6: correctly call apis to get the

information based on location

Test final Manual test plan 10

0: no manual test plan
5: 6 pages of plan
8: 10 pages of plan
10: >12 pages of plan with pictures and all funcs