

The Breakbuddy™

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SoftDev

P01 -- Break Portal Design Document

2021-12-08

Time spent: 1.5 Hours

Target “ship date”: 12/23/2021

Project Description:

The Breakbuddy(TM) is designed to be used whenever someone is doing work. To prevent overworking or working continuously without a break, Breakbuddy(TM) will alert the user after a certain amount of time working that they should take a break. After the user accepts the much needed break, The Breakbuddy(TM) will begin to play some music from the user's Spotify playlist or a popular playlist depending on the user's choice. Additionally, NASA images will be shown with jokes and/or fun facts on top of them to provide some entertainment for the user.

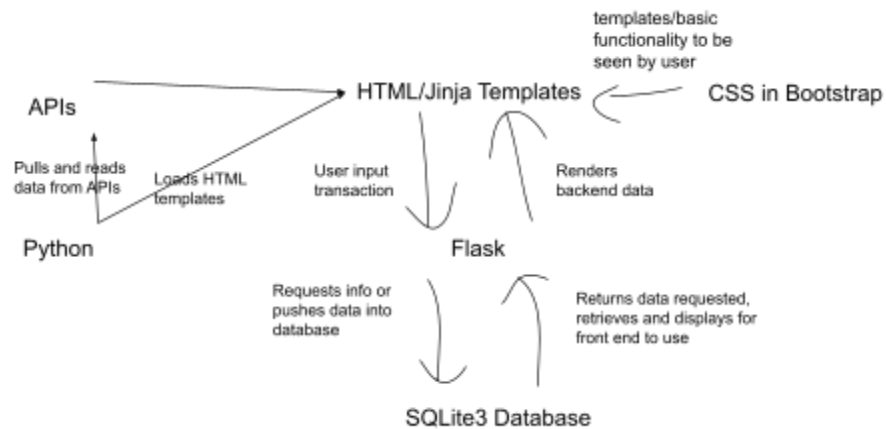
Program components:

1. Python File - manage Flask, API calls
2. HTML/Jinja templates - rendering pages
3. SQLite database(mayhaps?!?) - storing usernames and passwords, possibly for storing information from APIs if necessary (to circumvent quotas)
4. Use APIs as deemed necessary

Templates:

Login.html - login page
Register.html - register page
Preferences.html - Options
Timer.html - The timer when user is working
Break.html - The break page

Component map:



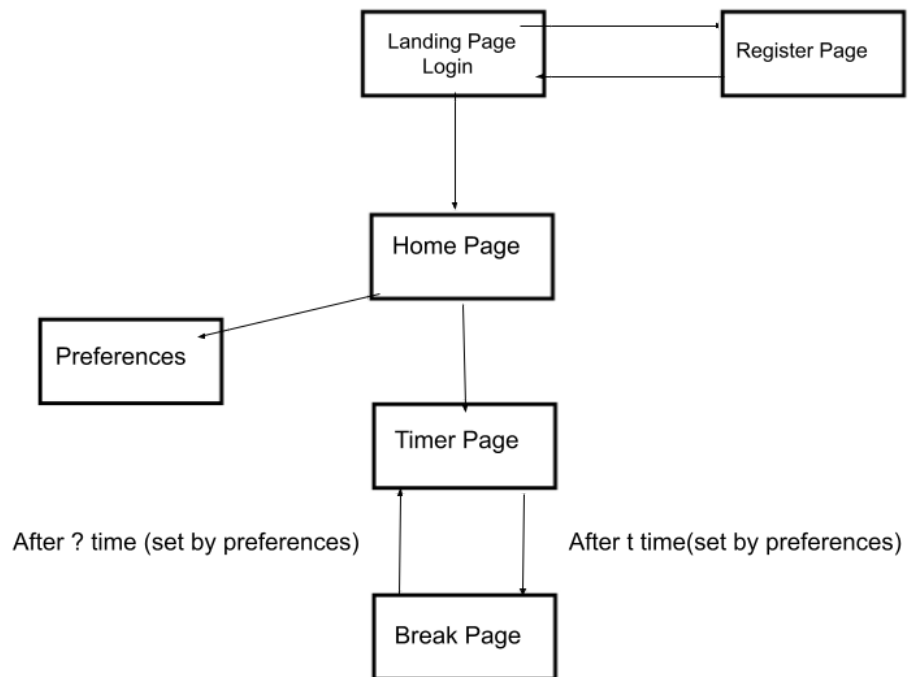
Database organization:

Table of Users and Passwords

User	Password
<user1>	<password1>
<user2>	<password2>
...	...

(more may be added later)

Site map (front-end):



Breakdown of tasks:

- [PM](#) - Eric: Front-end (Bootstrap, HTML)
- Yoonah: Front-end (Bootstrap, HTML)
- Michael: Back-end (Flask, API linking)
- Josephine: Backend (Flask, API linking)

APIs we will use(Probably?):

- NASA - Backgrounds for pretty pictures
- Spotify - music/allowing users to add their own playlists
- Joke - Funny jokes to tell user
- Fun Facts - Interesting facts to tell user
- Kanye West - "Inspiring" quotes to tell user
- Colors(Probably) - Relaxing colors to go along with the music

Front end framework selection:

We'll be using Bootstrap for our front-end framework. We'll be taking advantage of Bootstrap's flexible row-column grid system for our user's music selection, and their overall visually appealing styles of CSS/templates for the user to gaze at adoringly. We will also use Bootstrap's drop down menu, navigation bar, and button components to add parts of our different APIs.