

Final project 326

Our project is an application that can give you advice on what to wear based on the weather. There are two parts to our code. The main GUI provides information on the weather such as temperature and cloud cover. In addition, the GUI gives morning, evening, and nighttime advice. The second part of our code is a notification system. By placing your email address into a text entry box you can get notified every day with advice on what to wear.

To run the code you must download all files in the GitHub repository. After this, from the command line, you will simply run the `gui.py` file. Two windows should pop open: the main GUI interface and the Notification Center. The main GUI allows you to input any valid zip code. Once done the application will automatically terminate and restart. Once loaded back the application will display the new weather and the advice associated with it will be presented based on the instead zip. You can click through the pages to see the morning, evening, and nighttime advice. Based on the current weather the advice will suggest a jacket (light, heavy, or with a hood), umbrella, gloves, and a hat. The notification center simply lets you place your email address so you can be notified every day with weather advice. You should not exit the window if you desire to continue the notifications, however, you can minimize it. (you can close out of the main app)

Bibliography:

Clarity Coders. (2020, May 16). *Create email and text message SMS alerts with Python.*

Youtube. <https://www.youtube.com/watch?v=B1IsCbXp0uE>

We were struggling on figuring out how to send a notification to users about their clothing options based on the weather. We looked to find if someone has done anything similar, and we stumbled upon this Youtube channel. They had a tutorial on how to send an email notification using python. For this source we weren't able to figure out how to personalize the code so we took the code verbatim besides the contents of the message.

Bader, D. (2020). Schedule. *Read the Docs*.

<https://schedule.readthedocs.io/en/stable/>

Once we were able to send the notification using python, we need a way to continue the process in the background without interrupting the flow of the main app. This website contained a script that did just that. We implemented this into one of our notification center button commands, so it will apply after the user submits their email.

Kim, S. (2018, Jun 6). Python Restart Program. *Stackoverflow*.

<https://stackoverflow.com/questions/48129942/python-restart-program>

We were trying to figure out how to find a way to update the interface after a zip code is submitted. We found a code that restarts the whole application by re-running from the beginning. Only one line of code that was taken.