Project Name: Notification App Drinking-Water-Reminder

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Demo
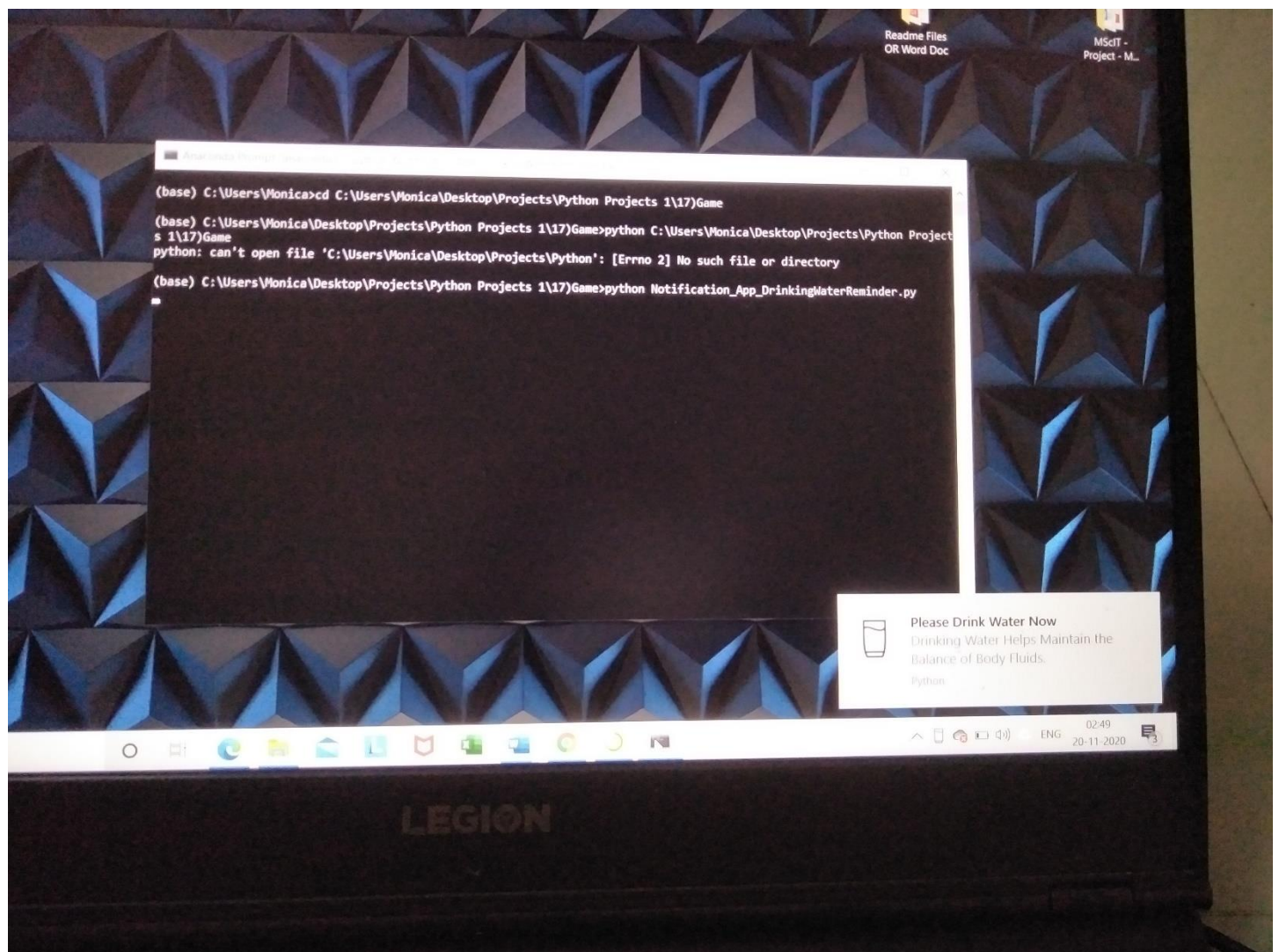
Overview

This is diving into Drinking Water Reminder App.

Apps have easy to understand interface.

This repository contains the code for Drinking Water App using python's various libraries.

It used plyer and time libraries.

These libraries help to perform individually one particular functionality.

Kivy organisation started plyer project as a need to get access of various platform features since Kivy organisation provides the framework to build cross-platform apps and softwares using python.

Python has a module named time to handle time-related tasks. To use functions defined in the module, we need to import the module first.

The purpose of creating this repository is to gain insights into how to build mini apps.

These python libraries raised knowledge in discovering these libraries with practical use of it.

It leads to growth in my ML repository.

This above few screenshots will help you to understand flow of output.

Motivation

The reason for building this is, because dehydration causes lot of problems and it happens with me many times that if I am engrossed in work then I forget to drink water for 8-10 hours. So, creating this gives me reminder on my workstation. Another reason for creating this app and working with plyer especially is, it also makes it possible to run the same code across multiple platforms and the modified app code without the need for recompilation. Plyer tries not to reinvent the wheel, and calls for external libraries to implement the API in the easiest way, depending on the current platform. Hence, I continue to gain knowledge while practicing the same and spread literary wings in tech-heaven.

Technical Aspect

Plyer is used to get battery status, Turn on flash or get accelerometer readings. Plyer is independent of Kivy and can work as a separate entity. how does plyer recognise the platform and uses only those files which are needed? This file creates a proxy for each feature. Popular time module available in Python which provides functions for working with times and for converting between representations.

Installation

Using intel core i5 9th generation with NVIDIA GFORECE GTX1650.

Windows 10 Environment Used.

Already Installed Anaconda Navigator for Python 3.x

The Code is written in Python 3.8.

If you don't have Python installed then please install Anaconda Navigator from its official site. If you are using a lower version of Python you can upgrade using the pip package, ensuring you have the latest version of pip, *python* -m pip install --*upgrade pip and press Enter.*

Run/How to Use/Steps

Keep your internet connection on while running or accessing files and throughout too.
Follow this when you want to perform from scratch.
Open Anaconda Prompt, Perform the following steps:
cd <PATH>
pip install plyer
pip install time
You can also create requirement.txt file as, pip freeze > requirements.txt
run files.

Follow this when you want to just perform on local machine.
Download ZIP File.
Right-Click on ZIP file in download section and select Extract file option, which will unzip file.
Move unzip folder to desired folder/location be it D drive or desktop etc.
Open Anaconda Prompt, write cd <PATH> and press Enter.
eg: cd C:\Users\Monica\Desktop\Projects\Python Projects 1\17)Game

In Anconda Prompt, pip install -r requirements.txt to install all packages.
In Anconda Prompt, write <filename>.py and press Enter. That is,

In Anconda Prompt, write Notification_App_DrinkingWaterReminder.py and press Enter. Please be careful with spellings or numbers while typing filename and easier is just copy filename and then run it to avoid any silly errors.
Note: cd <PATH>
[Go to Folder where file is. Select the path from top and right-click and select copy option and paste it next to cd one space <path> and press enter, then you can access all files of that folder]   [cd means change directory]

Directory Tree/Structure of Project

Folder: 17)Game
Notification_App_DrinkingWaterReminder.py

To Do/Future Scope

Can try other type of simple app.

Technologies Used/System Requirements/Tech Stack

Credits

https://medium.com/@kuldeepgrewal/plyer-platform-independent-compatibility-layer-7f6f45de0e84

https://www.tutorialspoint.com/python/python_date_time.htm

Code With Harry Channel