PROJECT TITLE : WORD WIZARD

DAILY VOCABULARY ENRICHMENT

Introduction

The provided Python script is designed to enhance vocabulary by sending daily notifications with a word and its meaning. It utilizes Python libraries such as ‘json’, ‘random’ , ‘time’, ‘datetime’, and ‘plyer’ for notification.

Functionality:

Data Initialization:

- A cheat sheet is defined to map each day to a letter of the alphabet.
- The script loads a JSON dictionary containing words and meanings.

Word Selection:

- It fetches words and meanings starting with the letter corresponding to the current day.
- Randomly selects a word and its meaning from the available list.

Notification:

- Utilizes the Plyer library to send notifications.
- Displays the selected word, its meaning, and additional information like date and letter.

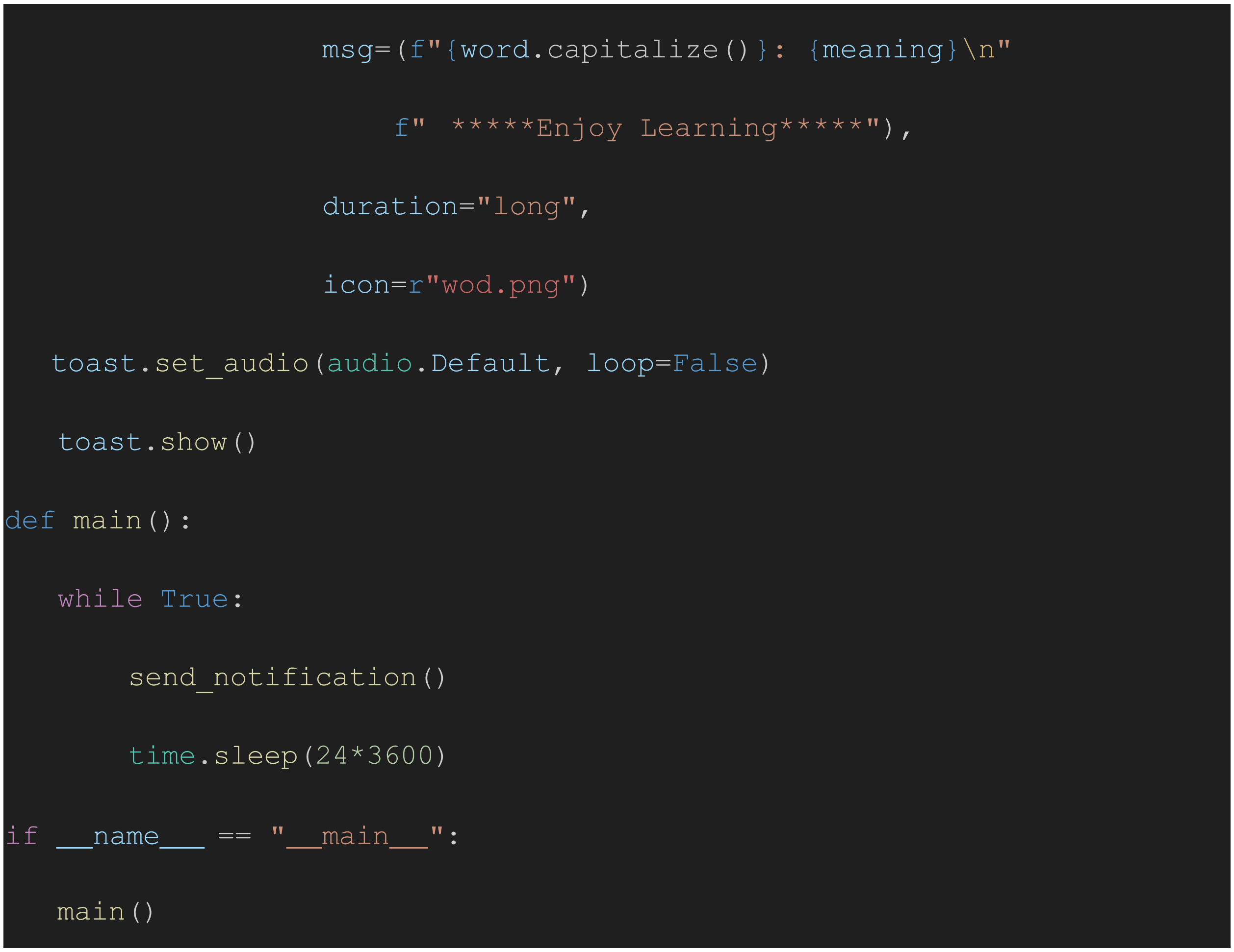
Main Loop:

- The main function continuously sends notifications every 10 seconds.
- This loop ensures users receive regular notifications throughout the day.

Source code:

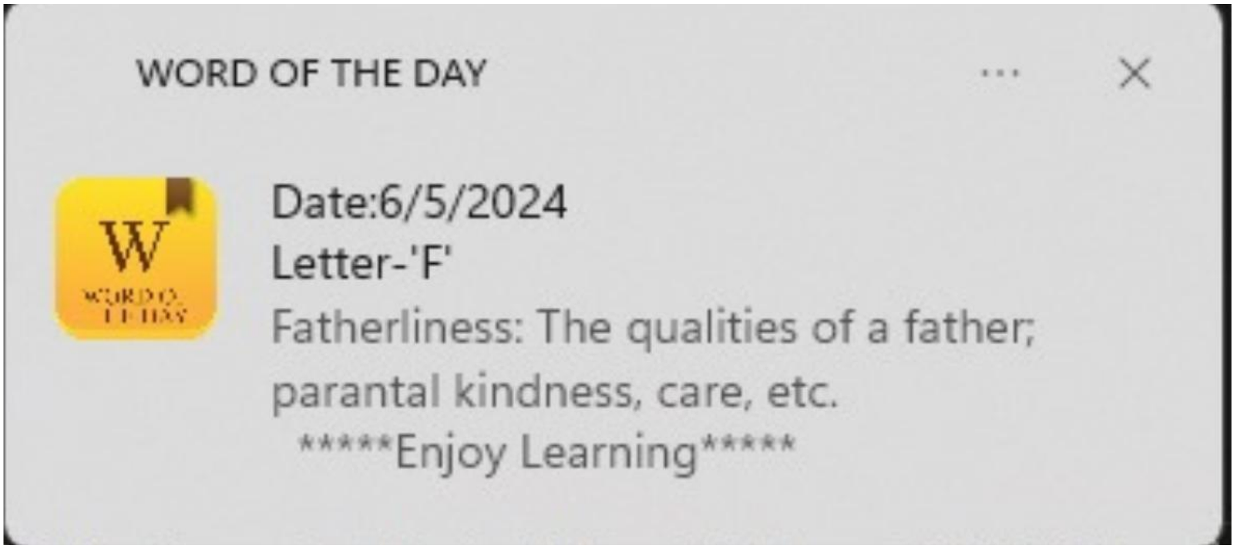
```
from winotify import Notification, audio

import json

import random

import time

from datetime import datetime
```

```
cheatsheet={1:'a',2:'b',3:'c',4:'d',5:'e',6:'f',7:'g',8:'h',9:'i',10:
'j',11:'k',12:'l'
,13:'m',14:'n',15:'o',16:'p',17:'q',18:'r',19:'s',20:'t',21:'u',22:'v
',23:'w',24:'x',25:'y',26:'z',27:'a',28:'b',29:'c',30:'d',31:'e'}
fin=open("dictionary.json" ,"r")
cont=json.load(fin)
current_datetime = datetime.now()
day = current_datetime.day
month=current_datetime.month
year=current_datetime.year
letter=cheatsheet[day]
letter_list=[]
for (i,v) in cont.items():
   if i.startswith(letter):
       letter_list.append((i,v))


def send_notification():
   word,meaning=random.choice(letter_list)
   toast=Notification(app_id="WORD OF THE DAY",
                   title=(f"Date:{day}/{month}/{year}\n"
                        f"Letter-'{letter.capitalize()}'\n"),
```



```
                        msg=(f"{word.capitalize()}: {meaning}\n"
                             f"  *****Enjoy Learning*****"),
                        duration="long",
                        icon=r"wod.png")
    toast.set_audio(audio.Default, loop=False)
    toast.show()
def main():
    while True:
        send_notification()
        time.sleep(24*3600)
if __name___ == "__main__":
    main()
```

OUTPUT:



WORD OF THE DAY

Date:6/5/2024
Letter-'F'
Fatherliness: The qualities of a father; parantal kindness, care, etc.
  *****Enjoy Learning*****

Improvements:

User Interaction:

- Enhance user interaction by allowing users to set notification intervals or select specific words.
- Implement options to pause or customize notifications.

Error Handling:

- Add robust error handling to handle cases like missing dictionary files or notification failures.
- Provide informative error messages for better user experience.

Customization:

- Allow users to customize notification content or add options to select word difficulty levels.

Scalability:

- Consider scaling the application to support additional languages or specialized dictionaries.

Logging and Reporting:

- Implement logging functionalities to track notification history and user interactions.
- Generate reports summarizing user engagement and vocabulary improvement metrics.

Conclusion:

Our Python-powered vocabulary enhancer fosters daily linguistic exploration, empowering users with a seamless blend of technology and education. Each notification acts as a beacon of knowledge, guiding users on a journey of mastery. Together, we navigate the labyrinth of language, forging pathways towards communication excellence.