Weekly Progress Report

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Domain: Python

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Week Ending: 01

I. Overview:

This week, the primary focus was on understanding USC_TIA and contributing to Python projects. Additionally, efforts were made to leverage learning resources for skill enhancement.

II. Achievements:

1. USC_TIA Familiarization:

 - Explored USC_TIA documentation to grasp core functionalities.

 - Successfully executed basic tasks, showcasing initial proficiency.

2. Python Project Contributions:

Name of the project:-

 - Contributed code to [URL Shortener] with a focus on [Long URL Convert into Shorten URL].

 - Engaged in effective collaboration with team members.

3.Learning Python:

 - Acquired proficiency in essential Python libraries, such as [Tkinter, Pyshortener].

 - Applied Python skills to real-world problems within USC_TIA context.

III. Challenges:

1. USC_TIA Integration:

 - Encountered challenges during USC_TIA integration with [Python/Vs Code].

 - Ongoing efforts to troubleshoot and ensure successful integration.

2. Python Project Complexity:

 - Faced complexity in understanding [Long URL Convert into Shorten URL] of the Python project.

 - Seeking guidance to overcome challenges and enhance understanding.

IV. Learning Resources:

1. USC_TIA Documentation:

 - Utilized USC_TIA official documentation for reference and troubleshooting.

 - Attended relevant webinars and online tutorials to deepen understanding.

2. Python Learning Resources:

 - Engaged with [Online Python Tutorials] to strengthen Python skills.

 - Participated in [Pyshortener & Tkinter Libraries] for practical application.

V. Next Week's Goals:

1. USC_TIA Enhancement:

 - Address integration challenges and explore advanced USC_TIA features.

 - Collaborate with peers to contribute to USC_TIA improvement discussions.

2.Python Project Development:

 - Tackle more complex tasks within the Python project to increase contribution.

 - Seek feedback from mentors and peers for continuous improvement.

Project Source Code:-

```python
from tkinter import *
import pyshorteners

root=Tk()
root.title('URL Shortener')
root.configure(background='light blue')
p1=PhotoImage(file ="C:\\Users\\Sundar S\\Documents\\Python\\Projects\\URL Shortener\\URL_Shortener.png")
root.iconphoto(False, p1)
root.geometry("500x500")

def Shorten():
    if shorty_entry.get():
        shorty_entry.delete(0,END)

    if my_entry.get():
        #Convert to tiny url
        url=pyshorteners.Shortener().tinyurl.short(my_entry.get())
        #Output to Screen
        shorty_entry.insert(END,url)

        #Reverse URL
        print(pyshorteners.Shortener().tinyurl.expand(url))

def Clear_all():
    my_entry.delete(0,END)
    shorty_entry.delete(0,END)
    my_entry.focus_set()
```

```python
my_lbl=Label(root,text="Enter the URL to Shorten:",font=("Times New Roman",25),bg='light blue')
my_lbl.pack(pady=20)

my_entry=Entry(root,font=("Times New Roman",24))
my_entry.pack(pady=20)

my_btn=Button(root,text="Shorten Link",command=Shorten,font=("Times New Roman",20),bg='violet')
my_btn.pack(pady=20)

shorty_lbl=Label(root,text="Shortened Link",font=("Times New Roman",24),bg='light blue')
shorty_lbl.pack(pady=30)

shorty_entry=Entry(root,font=("Times New Roman",22),justify=CENTER,width=30)
shorty_entry.pack(pady=10)

my_clr=Button(root,text="Clear All",command=Clear_all,font=("Times New Roman",20),bg='yellow')
my_clr.pack(pady=20)

root.mainloop()
```