

# **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:- URL Shortener**

- Contributed code to generate unique shortened URLs using python with a focus on testing and debugging the application.
- Engaged in effective collaboration with team members.

#### **3.Learning Python:**

- Acquired proficiency in essential Python libraries, such as flask framework and databases like SQLite.
- Applied Python skills to real-world problems within USC\_TIA context.

### **III. Challenges:**

## **1. USC\_TIA Integration:**

- Encountered challenges during USC\_TIA integration with Flask web framework and SQLite database.
- Ongoing efforts to troubleshoot and ensure successful integration by testing API routes, handling URL redirection logic and validating database connections.

## **2. Python Project Complexity:**

- Faced complexity in understanding URL shortening logic, unique key generation and redirection mechanism of the Python project.
- Seeking guidance to overcome challenges and enhance understanding of Flask routing and error handling.

## **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 Flask and Python tutorials from online learning platforms to strengthen Python skills.
- Participated in Python developer forums for practical application.

## **V. Next Week's Goals:**

### **1. USC\_TIA Enhancement:**

- Address integration challenges and explore advanced USC\_TIA features for improved performance.
- Collaborate with peers to contribute to USC\_TIA improvement discussions and issue resolution.

### **2. Python Project Development:**

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

- Seek feedback from mentors and peers for continuous improvement.

## **VI. Additional Comments:**

*Overall progress improved my understanding for Python Programming. I learned new python concepts, worked on the URL Shortener project, and improved my skills.*