Weekly Progress Report

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Domain: PYTHON INTERN

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Week Ending: 01

I. Overview:

This week, the primary focus was on contributing to four python projects: URL Shortener, File Organizer, Password Manager, and Quiz Game. Efforts were made to implement key functionalities, enhance coding skills.

II. Achievements:

1.URL Shortener:

- Implemented basic URL shortening and redirection functionality.
- Worked on generating unique short links and storing them efficiently.

2. File Organizer:

- Developed a script to categorize and move files into appropriate directories.
- Integrated logic to detect file types and automate organization.

3.Password manager:

- Built a secure system for storing and retrieving encrypted passwords.
- implemented a user authentication mechanism.

4.Quiz Game:

- Designed a CLI-based quiz game with multiple-choice questions.
- Implemented a scoring system and randomized question selection.

III. Challenges:

1. URL Shortener:

- Researched best hashing techniques to improve security.

2. File organizer:

- Faced challenges in handling large file structures efficiently.
- Optimized file movement operations to improve speed.

3. Password Manager:

- Overcame encryption and decryption complexities.
- Ensured safe storage of credentials without compromising security.

4. Quiz Game:

- Addressed bugs related to randomized question selection.
- Improved game logic to avoid repetition of questions.

IV. Learning Resources:

1. Python Documentation:

- Referred to python official documentation for libraries like hashlib, shutil, and cryptography

V. Next Week's Goals:

1. Enhancing Project Features:

- Implement a frontend interface for the Password manager and Quiz Game.

2.Code Optimization and Debugging:

- Refactor code to improve efficiently and readability.

VI. Additional Comments:

This week provided hands-on experience in python project development. The projects helped in understanding real-world applications of file handling, encryption, API development, and game logic. Continuous learning and debugging played a crucial role in overcoming challenges.