*Requirements*

User Requirements

For users to access the apps software they simply need any type of android or apple device to download the application from the app store. Then when they first open the app it will prompt the user to sign up or sign in to an existing account. Lastly they will have the option to connect their google calendar to the app for ease of adding their daily task.

Hardware Requirements

Firstly to create and deploy the app we will require a laptop to implement our design for our program in python and test it. Then to view how both apps look like on mobile devices we will need an apple and android device. While both devices may take a while to publish on the app store it seems that the process won’t be terribly difficult.

Software Requirements

Our programming language of choice is python, for which we will use PyCharm. Using python, we will also need Google Calendar API for integration between google calendar and our habit program. We will use a python dictionary, Tkinter, that will allow for the generating of windows/elements for a graphical user interface, which, in turn, displays the events from google calendar.

Security Requirements

Team Members and Roles:

Security Requirement: Ensure that team members are aware of security protocols and best practices relevant to their roles.

Executive Summary:

Security Requirement: Ensure that user data obtained from Google Calendar integration is handled securely and in compliance with data protection regulations.

User Requirements:

Security Requirement: Implement secure authentication mechanisms for user sign-up/sign-in processes to protect user accounts from unauthorized access. Use strong password policies and consider implementing multi-factor authentication.

Hardware Requirements:

Security Requirement: Ensure that all hardware devices used for development and testing are kept secure and up-to-date with necessary security patches and updates to mitigate potential vulnerabilities.

Software Requirements:

Security Requirement: Regularly update software dependencies, including PyCharm and Python, to patch any security vulnerabilities. Implement secure coding practices to prevent common security issues such as injection attacks or data leaks.

Security Requirement: Conduct a thorough security assessment of the application to find any security risks. Implement security controls such as input validation, and access controls to protect user data and system integrity.