**Project Title: Officium**

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**Keywords:** Intelligent Personal Assistant, Automate, Tasks, Interface, Interact, Web, System

**Project Description:**

Officium, an intelligent personal assistant is a software agent, the behavior of which can be changed by the user - comprising a Graphical User Interface (GUI) for information input and receiving response from the assistant via speech (i.e. audio played through a media player on the user’s system). Officium performs various tasks based on the input that the user enters, the user input in question would be of the form of concise and fixed text commands that comprise of keywords which elucidate the assistant as to which function must be performed. Officium will perform and automate a number of tasks such as the sending of emails, web surfing, Google Search, weather and time updates, playing of YouTube videos while also providing information about any particular subject. The GUI via which the user would interact with the assistant would be of a incredibly minimal and accessible design such that it may not be visually extravagant but its operation would be self-explanatory.

**Project Outcome:**

The basic idea behind this project is to create a simple stand alone intelligent personal assistant that functions along the same lines as any other existing assistant agent. The axiomatic outcome that is hoped for is to fully deliver with respect to the different functions of the assistant as they have been previously detailed. Moreover, we, the creators of this tool hope that such an application helps less tech savvy individuals to use the computer without feeling ignorant or technologically illiterate. It is also important to note, that while Officium helps those with limited computer knowledge, other class of users may find that it is incredibly helpful in speedily executing certain tasks that would be very well classified as menial in this day and age, thereby helping to save time for the user. All users may find helpful for their own subjective reasons that Officium abstracts away all the steps and presents only those that are the most basic. Finally, Officium is the solution for the people who are willing to make their computer their personal assistant.

**Libraries/Resources (Tentative):**

* Google text to speech – gTTS
* Python OS Module – os
* Regular Expressions Operator – re
* SMTP (Simple Mail Transfer Protocol) Protocol Client – smtplib
* Python Open Weather Module – pyowm
* System-specific Parameters and Functions - sys
* Urllib3 module
* Tkinter
* Webbrowser module
* Selenium - which includes use of Geckodriver for Firefox browser