Computer Science, University of Houston Victoria

Project Introduction

Team Name: Ensoft T1 Solution Architects

Caleb Tabora, Ryan Snider –Ainley

Ajmal Sahak, Shearon Fonji

Joseph Dodson, Sarah Crawford

Instructor: Mojtaba Masoumi

COSC 4320 – Software Engineering – Fall 2022

Date: Fall 2022

**Introduction**

**The project was designed particularly with Python codes to make the group more comfortable with coding rather than the other coding languages available. There** **were** **few changes or additions that we really needed to do, as we managed to meet our ambitions with creating a task program that provided usage of logging in, creating accounts, accessing a calendar, and the other functions that we had decided on implementing into the project.**

Initially the code used Tkinter as a GUI. However, Tkinter was unable to perform all the functions we wanted, such as a calendar and alarms. Furthermore, though Tkinter is a good beginner’s GUI, other more advanced GUI such as Kivy provided improved looks and better functionality. Initial code with Tkinter was scrapped in favor of Kivy and updated.

Kivy implemented our favored design choices, such as a calendar display for setting the date, in a more suitable and effortless fashion compared to our initial GUI choice, so development was continued using Kivy for user interface. Kivy ended up providing a stylish and efficient user interface that the group felt was more suited towards our initial vision.

Overall, the implementation of TaskDaddy’s specifications did not change much between stages. As developments went ahead, the software changed from a web application and shifted towards a mobile application build instead, due to limitations regarding the software. Other changes include the merger regarding the task and clock classes, allowing the task creation to be more fluid in comparison to having the task info and the time and date values be separated into different classes. Finally, other small changes, such as the sorted display of tasks, along with the ability to edit previously made task instances, were omitted as development progressed.

I added the addition of a secure messaging system in kivy, a button to access, and the environments needed for the packages to run a containerized environment. The message box is encrypted server to client capabilities, I don’t have money to fund a server but you can view it in my coding. As well as creatively developed the interface, chosen interpreters and web development page to the task application that is still under development. The microservice android app TaskDaddy addition has much development availability to developers that would like to add features to this wonderful application. All of the software development and tracking of contributions transparencies are available on GitHub @srah99.

For the current implementation of our software, these are all the overall changes that have occurred between project stages.