**CS 481: chadGPT Final Project Report**

**App Name: SynapFlow**

**Ideas: Focal Point, Clear-cut, Nucleus, Achieve**

**Team Member Names:**

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**Reason to choose this project:**

We chose this project, because we all agreed that we have a hard time studying with our phones nearby. None of us currently use a similar app, so we all found that this project could be useful to us. The project would allow us to remain focused on our work while we study. We also found that we would utilize Pomodoro’s technique as our influence for our algorithm, since there is so much research behind it for how well it works. Since this is a project we feel we could use after it’s finished; it would be more likely that we will polish and release the project to the public, to utilize the features others would find useful as well. We also want to find a way to reward the user, so that they will be more likely to check in and use the app while they work or study.

**Potential Features:**

SynapFlow will be an application to help users manage their time more efficiently while using their smart phones. This app will be based on the Pomodoro technique, a technique proven to improve productivity. When a person uses the Pomodoro technique during work or study sessions, they set a timer for around 25 minutes and only work for that amount of time then after the timer is up, take a 5-minute break. This technique has been proven to improve productivity and focus during studying and work. Because SynapFlow will be based on this technique the main feature that this application will have will be a work timer. This timer can be used like the Pomodoro technique or in any way the user wants to. The way this feature will work is the user will be able to set a custom amount of time and after the timer is up the user will be prompted by notification to begin their break. An algorithm will determine the amount of time the break the user gets will be based on the amount of time the user is being productive. The bigger the productivity block will result in a bigger break. To take this a step further, if the user chooses to, there will be a setting to restrict freedoms while the timer is going. For example, if the user still has trouble looking at their phone while the timer is going, they can restrict their phone so while the application is running Wi-Fi can be disabled, phone goes into do not disturb, phone sound turns off, and phone screen goes black and white. SynapFlow will also include various incentives to keep the user wanting to do work. For example, a reward system will be implemented so that the more sessions a user does, the more reward they will receive. This will also work in the opposite direction. If SynapFlow detects that you have left the application rewards will be withheld and taken away to discourage users from breaking their work timer. Another feature SynapFlow will contain is a task system to keep track of how much time the user spends on different tasks to optimize their day. The user can group different tasks, such as one grouping for school and one for work. The app will keep track of the amount of time spent on different tasks and be able to show the user what they spend their time on the most. Taking the task system even a step further, there will be a calendar view so that the user can see each day that they have successfully completed their times and view their rewards with ease. This feature will keep users motivated to continue using the application as well as demotivate them from exiting the app before the timer is up.

**Explain Potential Kotlin Concepts of your app:**

{Concepts}

* Set up timer functionality
* Use notifications for the timer
* Set up calendar functionality
* Set up view to see stats
* Set up Rewards
* Algorithm to determine User reward
* Algorithm to calculate break time ( higher study/ work time will result in bigger break time)