T1A3 Terminal Application

Katchup - "A pomodoro inspired productivity app"

By Anthony Huynh

Katchup!

Key topics covered in this presentation

- What is it?
- What is the pomodoro method?
- Why was this app created?
- Key Features
- App Demo

Application Overview

- A terminal based app which helps employ the Pomodoro technique
- Customisable Work/Break Times
- Customisable Session Length
- Easy and simple to use

What is the Pomodoro Technique?

- **Time management system**
- **Break up working periods into 25min chunks**
- After working period, a 5min break follows
- After 4 of these intervals a longer break is taken.

Inspiration behind Creation

- **Use of Pomodoro technique personally**
- **Convenience**
- **Challenge**
- Improve on a great technique.

Key Features

Main Features of Katchup

- Work Timer
- Short Break Timer
- Long Break Timer
- Session Counter

Demo of Application

Feature 1 Work Timer

- In Katchup users are able to input their own desired work time
- Gives users the option to change work length as they see fit
- A long break after 4 Katchups

Short Break Timer

- Employs a short break as specificied by user
- Displays the amount of Katchups completed
- Will not activate every 4 intervals

Long Break Timer

- User configured
- Will activate every 4 intervals
- Will not activate if last interval

Session Counter

- Displays Katchups remaining during Work
- Displays Katchups completed during Break

```python
def user_input():
    while True:
        try:

            interval = int(input('Please enter work duration (Mins): '))
            short_break = int(input('Please enter short break duration (Mins): '))
            long_break = int(input('Please enter long break duration (Mins): '))
            total_duration = int(input('Please enter number of Katchup sessions you\'d like to complete (Timer will begin after you press Enter): '))
            return interval, short_break, long_break, total_duration

        except ValueError:
            print('Please enter a valid input')
            continue
```

```python
def countdown(interval):
    for j in range (interval-1,-1,-1):
        for i in range(59,-1,-1):
            if i <= 9:
                sys.stdout.write \
                (f'\rDuration: {j} Minute(s) 0{i} Seconds  to go')
            else:
                sys.stdout.write \
                (f'\rDuration: {j} Minute(s) {i} Seconds to go')
            time.sleep(1)
```

```python
if __name__ == '__main__':

    session_count = 0
    interval, short_break, long_break, total_duration = user_input()

    while session_count < total_duration:
        # Work timer that displays how many sessions are remaining
        print(f'\nKeep Grinding! You\'ve got {total_duration - session_count} Katchups remaining!')
        countdown(interval)
        session_count += 1
```

```python
    while session_count < total_duration:
        # Work timer that displays how many sessions are remaining
        print(f'\nKeep Grinding! You\'ve got {total_duration - session_count} Katchups remaining!')
        countdown(interval)
        session_count += 1
        # Long break timer occurs after every 4 sessions but not if the it is the last session
        if session_count%4 == 0 and session_count!=total_duration:
            print('\nGreat Work! It\'s time for a long break!')
            countdown(long_break)
        # Short break timer that adds 1 to session count when finished
        else:
            print('\nWell Done! You\'ve earned yourself a short break!')
            countdown(short_break)
            print('\nKatchups Completed: ',session_count, '/',total_duration)
```