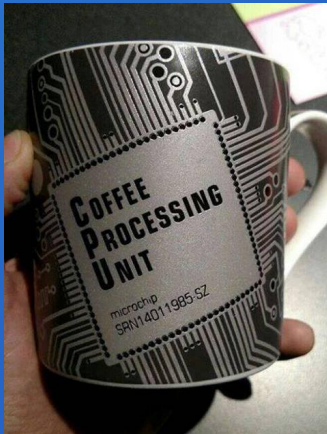


Caffeinated Coders

Megan Chu, Miranda Go, Wei Liu,
Divyank Rahoria, Ruixian Song



Caffeinated Coders Team Formation

- Caffeinated Coders Team Formation
 - Leading/Organizing: Miranda
 - CI Pipeline: Miranda
 - Wireframing: Wei + Divyank
 - Testing: Megan + Miranda
 - Storage: Ruixian + Divyank
 - Documentation: Miranda + Megan
 - Frontend: Everyone!



Miranda Go



WEI LIU



Ruixian Song



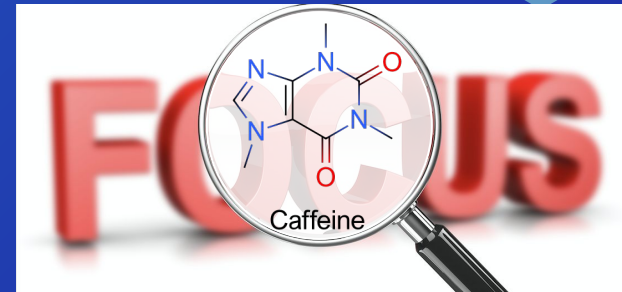
Divyank Bahoria



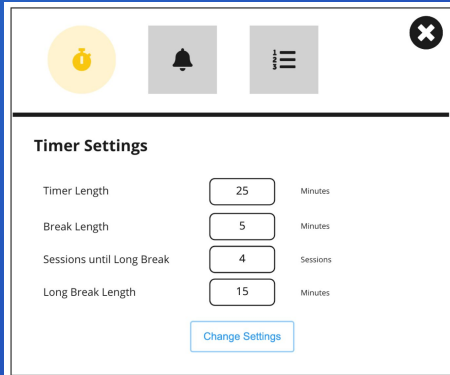
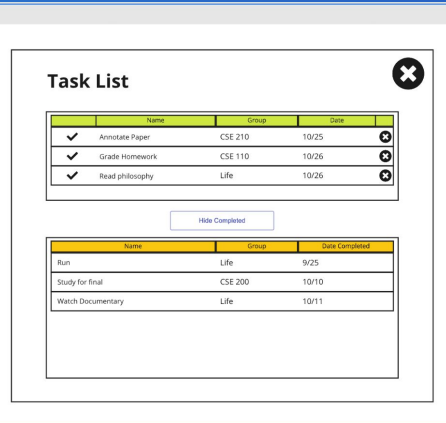
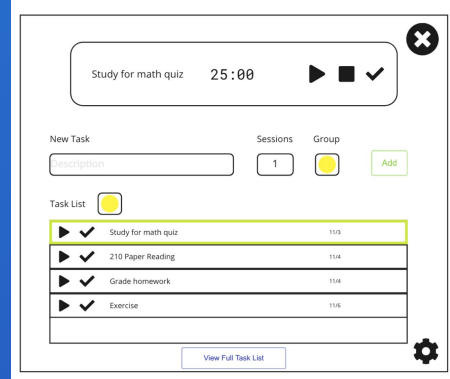
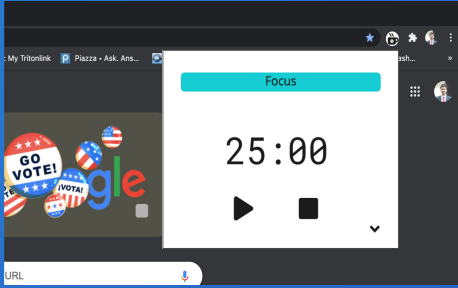
Megan Chu

Project

- Problem
 - project that the undergraduates students can complete
 - high quality and demonstrates the SE process
 - constrained, yet leaves some room for design decisions
- Solution -Demonstrate the software engineering process by creating an example undergraduate Pomodoro Timer Chrome Extension



Focus with Caffeine!



- Name - Focus with Caffeine!
- Tools - Chrome ext
 - Status Hero, Github, Zenhub, Google docs, Miro, AdobeXD, Cypress, Mocha
- Design - driven by user stories!
- Wireframing - planned out everything except for color scheme/theme
- Later changes to design

Process

- Sprints
- Stand-ups
- Backlog
- Retrospectives



Sprints

Week 6: Use Cases, User Stories, Wireframes

Week 7: Complete Priority 1 and Front end for Priority 2

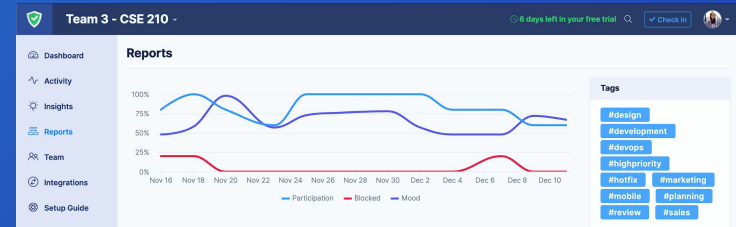
Week 8: Backend and Complete Priority 2

Week 9: Integration and Finalize documentations

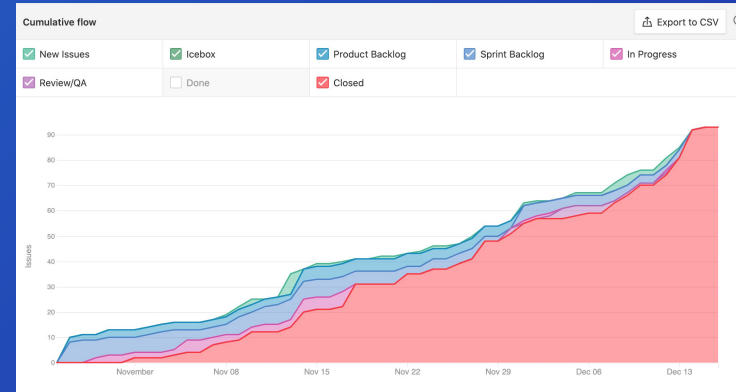
Week 10: Polishing UI and Stretch Goals

Stand-ups & Backlogs

Virtual Async Stand-ups on Monday,
Wednesday and Friday through Status Hero



Keep track of the backlogs and manage
tickets through Zenhub



Retrospectives

Testing Framework

Data Storage Format

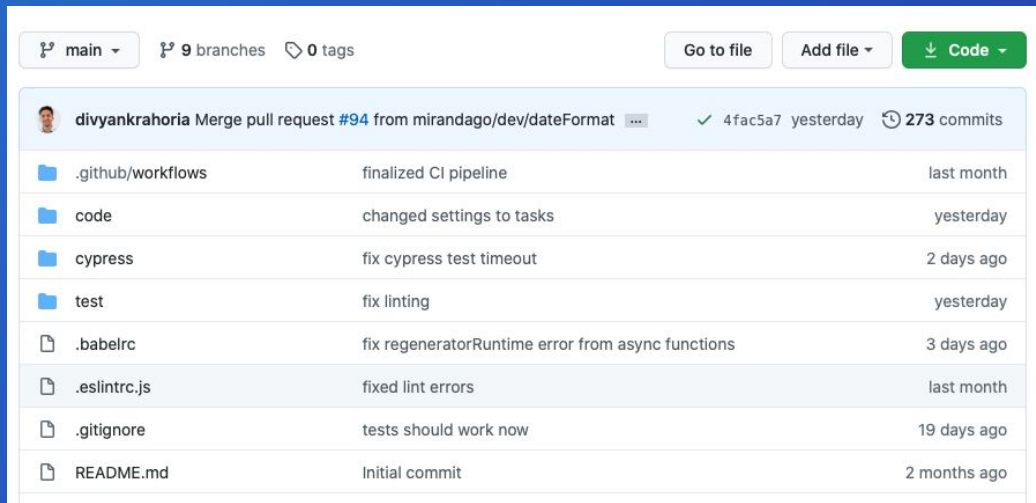
```
1 {  
2   "groups" : [  
3     {  
4       "name" : "group1",  
5       "color" : "blue",  
6       "tasks" : [  
7         {  
8           "name" : "task1",  
9           "date" : "2020-11-19",  
10          "session" : 1,  
11          "completed" : true  
12        }  
13      ],  
14    },  
15    {  
16      "name" : "group1",  
17      "color" : "blue",  
18      "tasks" : [  
19        {  
20          "name" : "task1",  
21          "date" : "2020-11-19",  
22          "session" : 1,  
23          "completed" : true  
24        },  
25        {  
26          "name" : "task2",  
27          "date" : "2020-11-18",  
28          "session" : 2,  
29          "completed" : false  
30        }  
31      ]  
32    }  
33  ]  
34 }  
  
1 {  
2   "group1-tasks" : [  
3     {  
4       "name" : "task1",  
5       "group" : "cse210",  
6       "date" : "2020-11-19",  
7       "session" : 1,  
8       "completed" : true  
9     },  
10    {  
11      "name" : "task2",  
12      "group" : "cse210",  
13      "date" : "2020-11-18",  
14      "session" : 2,  
15      "completed" : false  
16    }  
17  ],  
18  "group2-tasks" : [  
19    {  
20      "name" : "task1",  
21      "group" : "cse210",  
22      "date" : "2020-11-19",  
23      "session" : 1,  
24      "completed" : true  
25    },  
26    {  
27      "name" : "task2",  
28      "group" : "cse210",  
29      "date" : "2020-11-18",  
30      "session" : 2,  
31      "completed" : false  
32    }  
33  ]  
34 }
```

PREVIOUS DATA FORMAT

CURRENT DATA FORMAT

Repository and Code

- Folders
 - Code, Test, Cypress
- Branching
 - Main branch and Feature branches
- Rules
 - Pull request reviews
 - Checks: Linting and Testing
- Wiki page



Testing

- Behavioral Driven Testing
- Mocha and Cypress
- Automatic tests
- Manuel testing

build

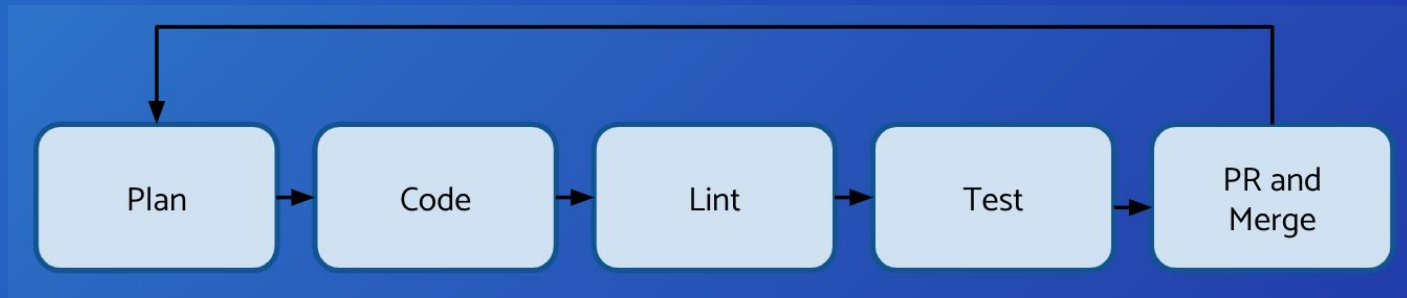
succeeded yesterday in 1m 27s

✓ Run the automated tests in the specified folder

```
12
13
14   Testing API for background.js
15     ✓ constants and variables initialized correctly
16     ✓ setSettings handled correctly
17     ✓ startTimer handled correctly
18     ✓ setRunningCall functions correctly
19     ✓ pauseTimer handled correctly
20     ✓ resetTimer handled correctly
21     ✓ setTime handled correctly
22     ✓ getTime handled correctly
23     ✓ getTimer handled correctly
24     ✓ setTask handled correctly
25     ✓ finishTask handled correctly
26     ✓ completeTask handled correctly
27     ✓ setupStorageSettings functions correctly
28
```

CI/CD Pipeline

- Consistent and simple



Documentation

- API documentations
- Testing
- User Stories
- Wireframes
- Onboarding
- Meeting notes
- Internal Documentation

Focus with Caffeine - Demo!



Why Our App

- Web based development
- Simple
- Integrating application with other existing platforms
- Extendable





Time Machine

Positives	Negatives
Consistent Meetings	Start earlier on the project
Detailed product planning	Testing for chrome extension is difficult
No Hackathons!	Velocity Estimations

CSE 110 Adaption

What will be Provided	Expectations	Reusability/Customization
<ul style="list-style-type: none">• User Stories• Simple hello world application• Tutorials• Example of completed project	<ul style="list-style-type: none">• Basic timer with settings and live demo• Planning with estimation• Documentation and Design decisions• Testing framework	<ul style="list-style-type: none">• Decisions to meet user requirements• User interactions• Data storage• Creative themes• Tools for testing, CI/CD and documentation

CSE 210 Readings

- 
- CI/CD pipeline
 - Software Testing
 - Chrome DevTools
- 

Questions?

Thank you!

