

Milestone 1: Project Proposal

Team Number: 015-06

Team Name: Misunderstood Pandas

Team Members: Téa Wright, Daniel Harris, Joshua Richardson, Uri Soltz, Aiden Wick, Yanlv Zhang

Application Name: Panda's Pomodoro

Application Description:

It is a known and researched fact that the attention span of students and working professionals is significantly shorter than we naturally assume. To counteract our natural tendencies to drift away from productivity individuals have adopted various tools to enhance our focus periods. One such tool is called the pomodoro clock. Essentially the pomodoro clock, commonly called “the pomodoro technique”, is a dedicated work-rest cycle with various iterations that allows the mind a set time to reset and re-engage after a short break, and to be re-invigorated towards the task at hand.

Our team’s website will flesh out a fully functional and interactive pomodoro clock that enables users to set their desired time limits for the work cycle and the rest cycle. The site will also allow users to play music or videos for both cycles using an outside API that allows the user to define what helps them study/work, and what kind of music allows them to mentally detach from the previous iteration.

The site is easily upgradable to include future tier requests depending on remaining time of project to include but not limited to: storage of user data, moderator access, multi API choices, advertising and monetization plan, mobile optimization, AWS deployment, and multiplayer streaming via sockets for group tasks. To enhance the desire to use the platform a large emphasis will be made on the front-end aesthetic with plans to “shift” back and forth between cycles.

Vision Statement:

The Panda's Pomodoro is a full stack website for students and working professionals that provides an easy and free access to a structured pomodoro technique while allowing the user to select what music they would like to listen to during their sessions. Unlike directly competing websites such as <https://pomofocus.io> or <https://nesto.cc>, our product allows the user a more personalized and thus focused study/work period completely for free.

Version Control:

<https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-06>

Development Method:

So we have decided to use an Agile / SCRUM methodology. The reason for this is so that we can have a more fluid process of development. This also means that we can scale up the project if possible or scale down the project if needed. The Misunderstood Pandas can start with a narrow/simple scope of the project and then once we achieve that we can go back to the drawing board and design new features. The problem with waterfall is that the development process can not go backwards meaning that once we start testing the team cannot redesign parts of the project as needed. This development method would increase the chances of our team being unable to complete a project as the project could be too broad in scope. In this project our project owner/client is **Joshua Richardson** because he is the one who came up with the idea. He will come up with the features he views as most important to be implemented first, obviously the team will input their ideas/objections. The scrum master is **Daniel Harris**, his job is to make sure people attend the meetings this may also be done by anyone using our snap group chat. We will be using jira as a development management tool. Here is the link:

<https://csci-3308-fall21-015-06.atlassian.net/jira/software/projects/MP/boards/1/roadmap>

Communication Plan:

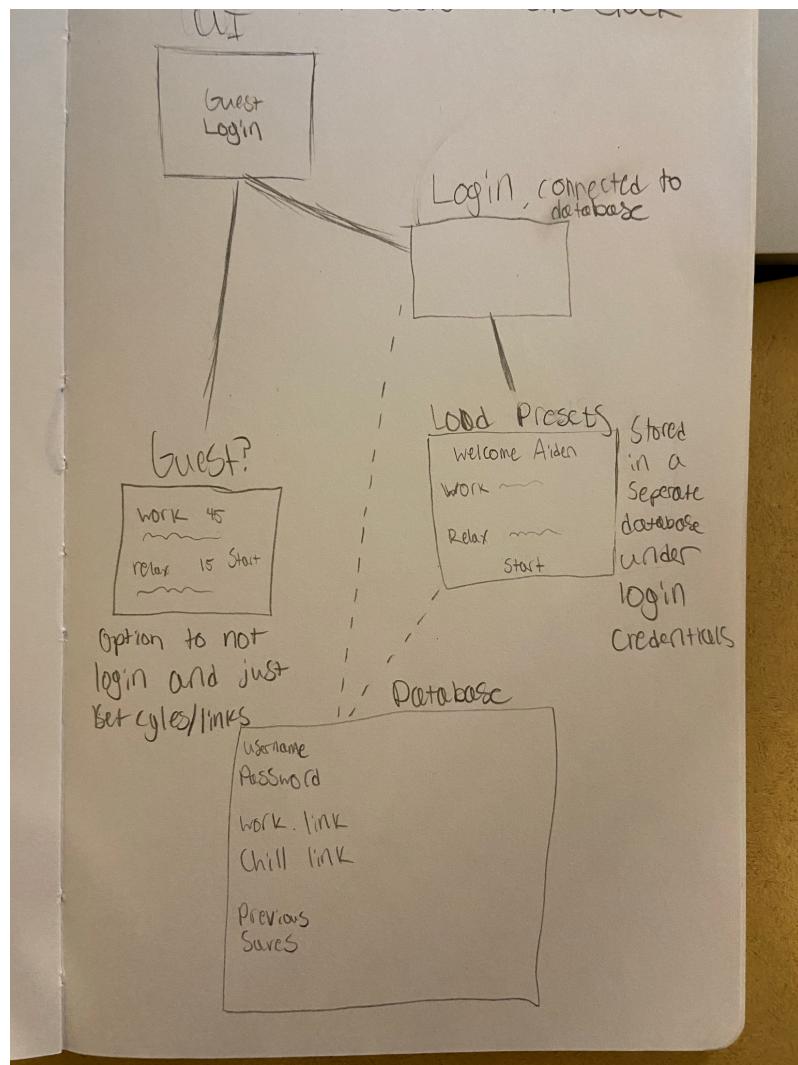
We decide our communication tools from the beginning. We use Snapchat as our non video communication, because we have a member in China and some software is prohibited in China. We also use Google doc as documents we circulate to each other. Then, we asked about each member's extracurricular time for our two-hour video meeting, but this will not be on the weekend.

Meeting Plan:

We decided to hold our video meeting from 9 p.m. to 11 p.m. every Monday by Zoom. Our meeting time with TA is 11:30 a.m. on Monday with zoom. The meeting with TA link is cuboulder.zoom.us/j/93167960468

Proposed Architecture Plan:

For coding on the front end, Python as we can link it to Django, which supports sql. The front end is going to have almost all the functionality. The back end and databases are just going to support and hold previous information that we can use to act on. At this moment, most of our backend database is going to be done using Django or Flask, which have benefits to both. It seems flask might be the more useful one as it allows us to run plugins. Since we want to integrate with Spotify and YouTube. This might be the easier route to take. In the database, we will have username and password information. From under that account, we will also have previous saves of work/relax links that were used, as well as the most recent one to auto fill. We might also include personalization options for the screen/background.



Use Case Diagram:

