Moody

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CPSC 2350 Project - Group #9

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Overview

Moody is an application that allows users to track their daily mood helping them to self-manage, reflect on their emotions, and have a better emotional awareness.

The application generates daily quotes, music or video based on the user's mood, and the user interacts with it by selecting one or more and saving the favorite ones to revisit whenever wanted.

Software Development Life Cycle

We decided to use Agile – Kanban as our Software Development Life Cycle for a couple of reasons:

- Agile is the most popular SDLC method and some of the group members have used this method previously.
- It accepts changes requirements to ongoing projects, which facilitates in case the program owner or design team decides to modify something.
- It has frequent deliveries with a shorter timescale.
- The next task to be implemented is based on what the project requires. For example, if the application is running slow the next priority will be fixing this issue.
- Kanban method operates by moving tasks along the board, from "To Do" to "In Progress", then to "Testing", and "Done" when it's complete.

What Worked

- The fact that changes could be made to the ongoing project.
- The Kaban method facilitated the testing process, because we were able to test the features once they were done, instead of having to finish the whole software.

What didn't Worked

- Local storage didn't work because of time constraints.
- We didn't manage to finish the CI, we ran out of time.

Implemented Features

Login - User login and password to have access to the software.

Input mood - Ability to enter a mood based on how the user is feeling that day.

Enter description - Ability to enter a description of the mood to keep track of it, like a journal.

Request video - Ability to request a video based on the mood entered.

Request quote - Ability to request a quote based on the mood entered.

Edit mood - Ability to edit an old mood and/or description.

View history - Ability to view history of all moods and its respective videos/quotes.

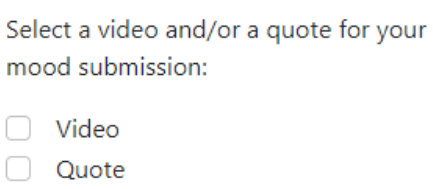
Extra quote - Ability to get an extra quote, not related to the mood input.

Application Programming Interfaces (APIs)

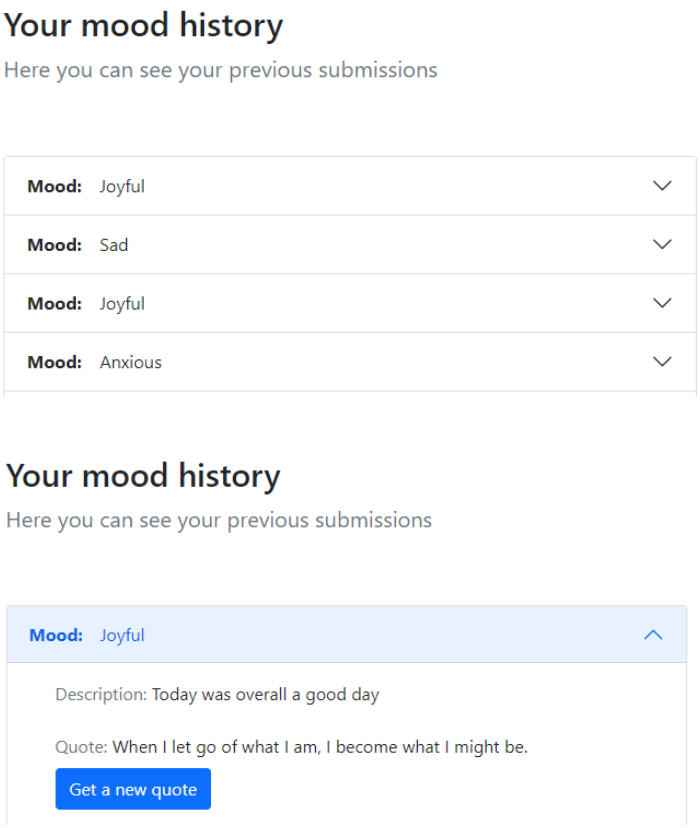
I. Zenquotes

Zenquotes was chosen because of the features built into the API, such as random quotes or a daily one, as well for the straightforward JSON responses. It also does not require approval and depending on use, no key as well.

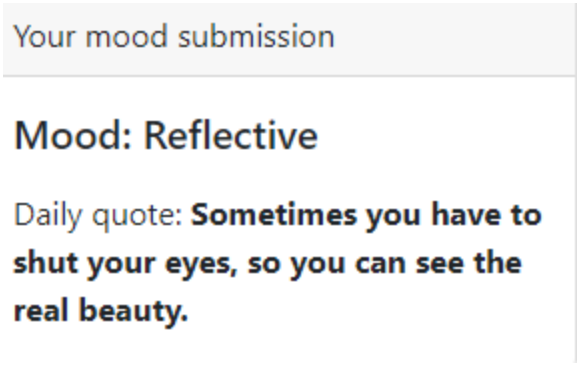
- Save quotes



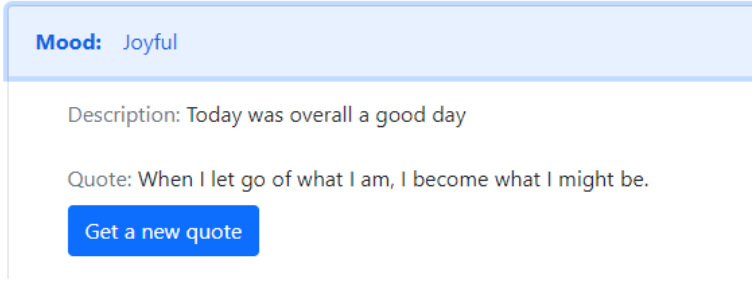
- Check previous quotes



➢ Display daily quote



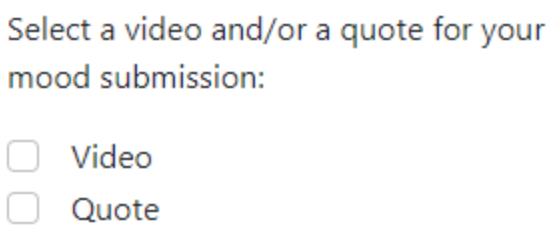
➢ Generate new quote



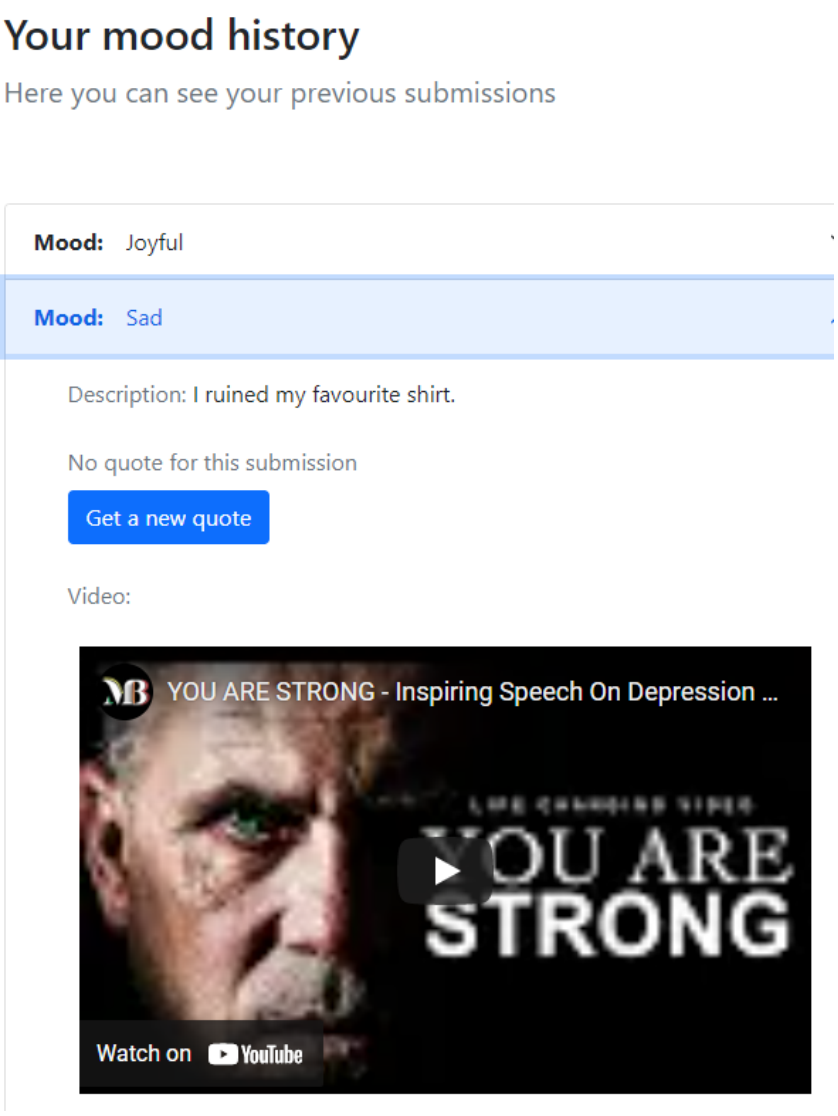
II. YouTube

YouTube was chosen for its unparalleled inventory of videos, allowing us to use videos that would be difficult to find anywhere else but on their platform due to their influence over the video hosting industry. They also are a world-leading tech company which helps with the robustness of the API as well as having lots of documentation available for it.

- Save videos



- Check previous videos



➢ Gives videos relating to daily mood

Your mood submission

Mood: Reflective

➢ Generate new videos

Video:

Get a new video

Testing

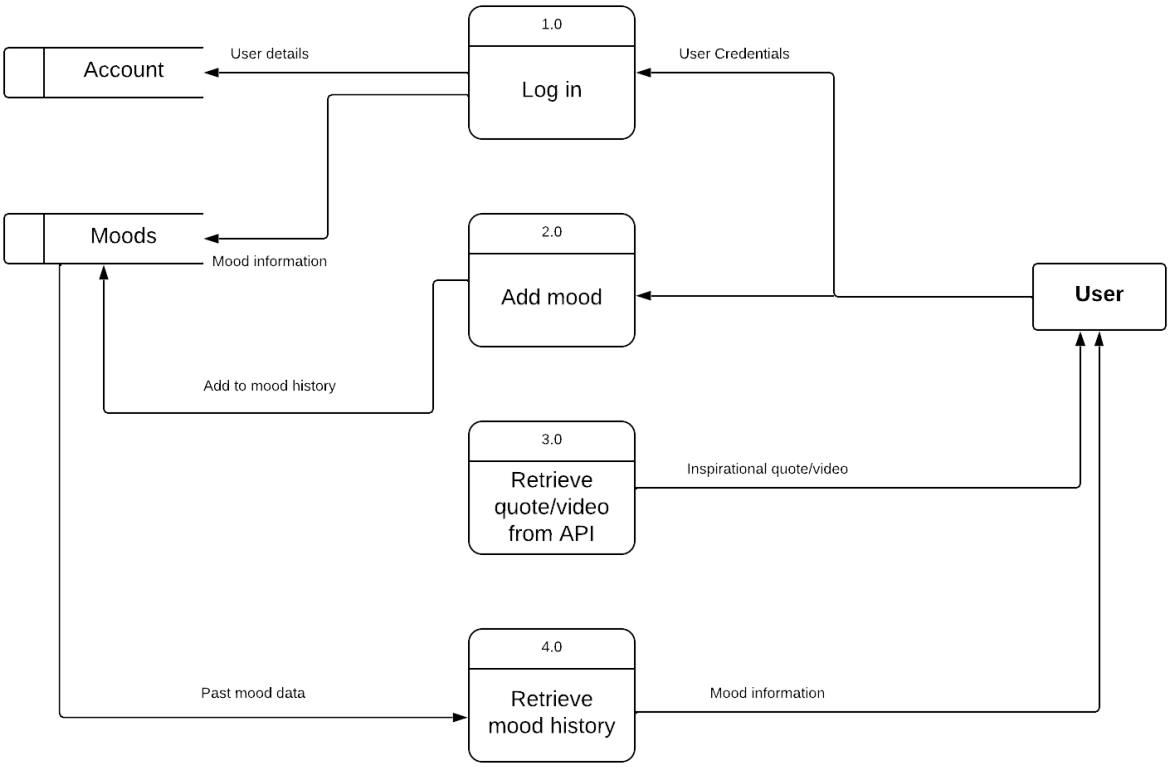
Test Case ID	Test Case Objective	Test Case Description	Expected Result	Status
1	Check if the user login information will match with the one saved on the database and will allow the user to login	Enter user email and password, and click login button	User will be redirected to homepage	Pass
2	Check if dropdown for mood selection has 6 moods; Joyful, Anxious, Calm, Sad, Reflective and Restless	Select only one of the moods on the dropdown list and move on to next field (mandatory)	The selected mood will be displayed on the frame once description is completed and submit button clicked	Pass
3	Check if description field is accepting the text and saving on DB	Ability to type a small text on the description box field if wanted (not mandatory)	If user wants to add a description of the mood, it will be displayed under the mood on the next page, once the submit button is clicked	Pass
4	Check if edit button works and takes the user back to the "add your mood" page	Edit mood and/or description fields	User will be redirect back to "add your mood page" and will be able to make changes to the mood	Pass

5	Check if the API is returning a video based on the mood selected	Select Video on the checkbox and click submit	A video will be shown to the user under the box field with the Mood and description of the mood	Pass
6	Check if the API is returning a quote based on the mood selected	Select Quote on the radio button and click submit	A quote will be shown to the user on the box field under the Mood and description of the mood	Pass

CI/CD Infrastructure

Our continuous integration did not work out due to time constraints. Our deployment uses Heroku to host the app, which is linked to the GitHub Repo. At the moment we use manual deployment due to running out of time to implement.

Data Flow Diagram



Lessons Learnt / Project Takeaway / Project Challenges

Lessons Learned - Kanban method is very efficient.

Takeaway - Teamwork skills. Knowing what each member could do and using that in our favor.

Challenges - Coordinating schedules and finding a time where all members were available for meetings.

Getting the back-end to interact with the front-end.

Finishing the CI in time.

Work division - Jenifer worked on the report. Mason worked on the back-end of the software. Gustavo worked on the front-end of the software. And Hao Wei worked on the presentation slide.