

# Mirr.or: A Sentiment Journal

Operation 115A

The Team:

Daniel: Product Owner  
Jacob: Team Member  
Miranda: Team Member  
Dominik: Team Member  
James: Team Member  
Parker: Team Member

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# Sentiment Journal Applications

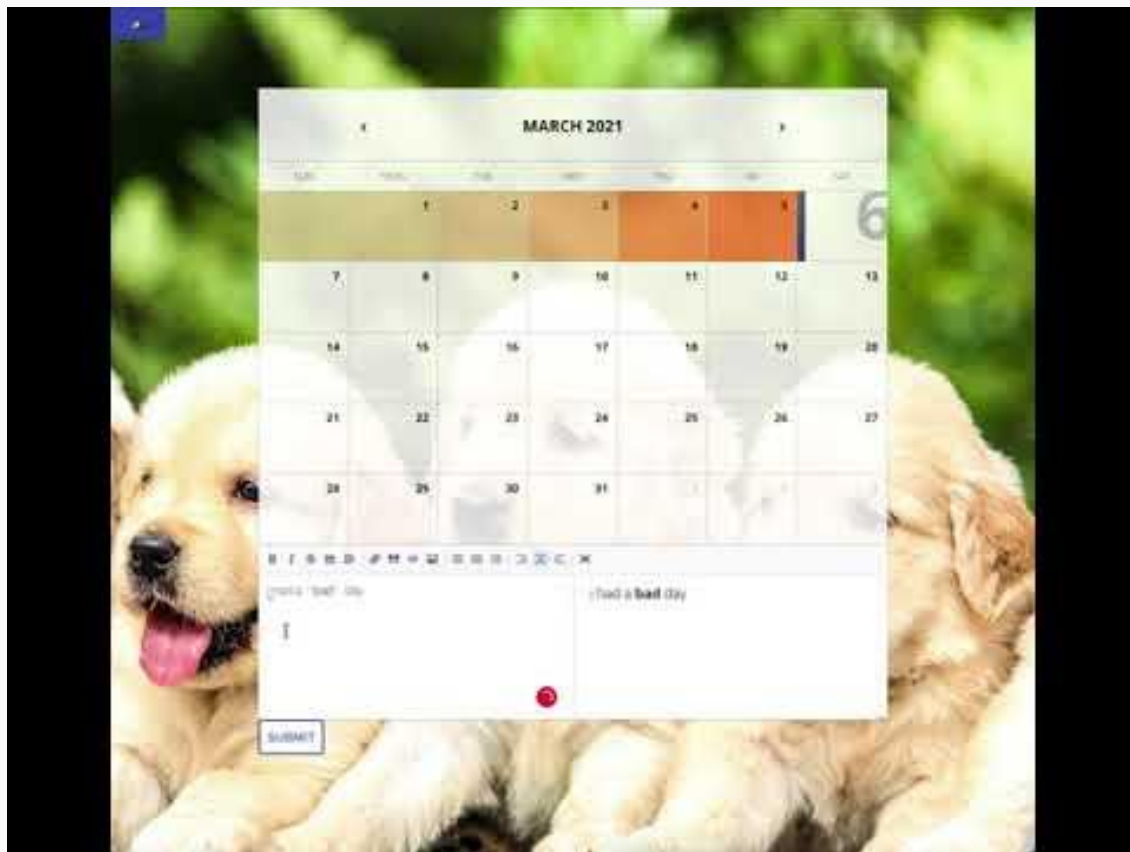
- Target users
  - Consistent diary/journalers
- Motivation
  - Make it easier for users to track feelings over long periods of time
  - Display this mood information to users in a visual way
- How we do this
  - Score journal entries with a mood score
  - Display the mood scores for past journal entries with colors

# Our Goals

- Users can create and view journal entries on a calendar interface
- Perform sentiment analysis on journal entries
- Display the sentiment of past entities using colors
- Users can log into their account on web and mobile platforms

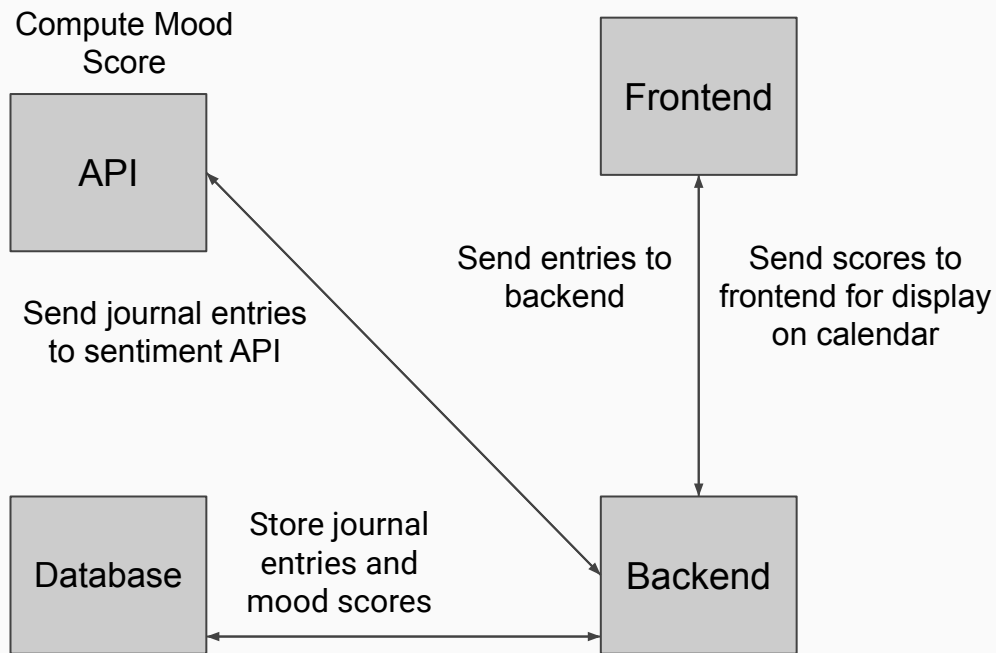
# Accomplishments

- **Accomplishments** = Developed a **MVP**
  - + **sparks**
  - + **clean ui**
  - + **personalization (Unsplash background & markdown)**
  - + **hosted on AWS**



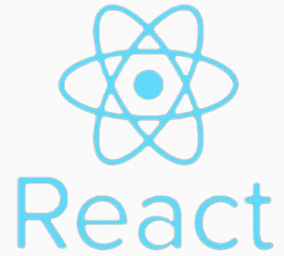
# System Overview

- Web Development
  - Reflective web app
- With Machine Learning
  - Sentiment Analysis API that converts journal entry to a mood score
  - -1.0: worst day ever
  - 1.0: best day ever

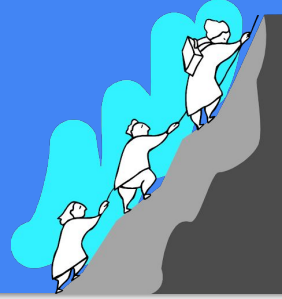


# Technologies Used

- Front End
  - React.js
- Back End
  - Python Flask
- Infrastructure
  - AWS
  - Docker
- Machine Learning Pipeline
  - Google Sentiment Analysis
- Database
  - PostgreSQL
  - Firebase
- Version Control
  - GitHub



# Challenges



- Challenges
  - Inexperience with some technologies
  - 6 team members
    - Slow planning in early sprints



# Project Management

- Standard Scrum Framework
- Tri-weekly standup meetings
- Active Peer Programming Sessions
- Trello for Task Assignment
- Whentomeet to decide meeting times



# Highs and Lows

- Things we enjoyed
  - Using real-world project management techniques
  - Learning React
- Things we did not enjoy
  - Inconsistencies with the back-end not running on some machines
  - Learning React from scratch

# Lessons Learned

- What Worked
  - Frequent Scrum Meetings
  - Peer Programming Sessions
- What Didn't Work
  - Starting development without enough learning spikes
  - Dividing into Frontend and Backend teams
- What We Wish We Had Done
  - Developed the app in React native

# Thank you!

Questions?

