

App Concept: “MoodSpace” — Your Daily Mood + Vibe Tracker

Team Project Proposal

The **problem or need** your app solves.

- College students are often busy or stressed, which can at times create an environment lacking emotional regulation. MoodSpace will help address this by enabling college students to develop their EQ (Emotional Quotient) in a fun and simple way. The app will promote emotional awareness and help students regulate their emotions by understanding their mood patterns by logging their daily mood, using emojis, and answering quirky vibe questions. This will create a space for users to reflect, track emotional trends, and explore their personality through fun visuals.

Target users and the **value proposition**.

- The target users are college students who want a fun and lighthearted way to identify and understand their emotions. MoodSpace will promote emotional awareness by enabling users to recognize patterns, manage stress, and enhance their emotional well-being.

Core features for **Minimum Viable Product (MVP)**

- User Authentication: Email/password signup
- Vibe Check: Q&A and pick emoji for your energy: 🐢 🐰 🚀 🧘
- Emoji Mood Journal: You can pick three emojis, and it also shows the history of your emoji journal entries.
- Notification: A reminder to log your mood daily.

Stretch Features

- Gives your top three most selected emojis.
- Match your mood with others who have a similar mood on your campus
- Inspirational quote based on mood
- AI-generated captions
- Custom vibe name
- Vibe history timeline
- Vibe analytics

Select one **external API or dataset** to enhance your system.

- ZenQuotes - will return motivational quotes and is beginner-friendly.

Ethical AI/Data Statement

- All AI-generated captions are optional and clearly labeled.
- No personal data is shared with external APIs.
- Users can delete or export their data at any time.
- Emoji logs are stored securely and used only for personal insights.

MoodSpace uses AI responsibly by creating AI-generated captions that are optional and clearly labeled. No personal data is shared with external APIs, and emoji logs are stored securely and used only for personal insights. Users can delete or export their data at any time, ensuring control over users' privacy.

System Decomposition

Major modules/components

1. Auth Module

- User registration & login
- JWT-based session management

2. Vibe Entry Module

- Daily form with:
 - Emoji picker
 - Vibe questions (multiple choice or free text)
 - Optional caption
- POST to backend `/api/vibe-entry`

3. Vibe History Module

- Timeline or calendar view
- GET from `/api/vibe-history`
- Filter by emoji, vibe label, or date

4. Analytics Module

- Emoji frequency chart
- Weekly vibe summary
- Backend aggregates data via `/api/vibe-stats`

5. Custom Vibe Label Module

- Create and save custom vibe names
- Reuse in future entries

Data Flow Diagram

Code

[React Frontend]



[Spring Boot REST API]



[Database]

- Frontend sends vibe entry → Spring Boot saves to DB
- Frontend requests history → Spring Boot returns filtered entries
- Analytics computed server-side or client-side

Sample DTOs / Entities

User

java

Long id

String username

String email

String passwordHash

VibeEntry

java

Long id

Long userId

LocalDate date

List<String> emojis

String vibeLabel

String caption

List<String> answers

CustomVibe

java

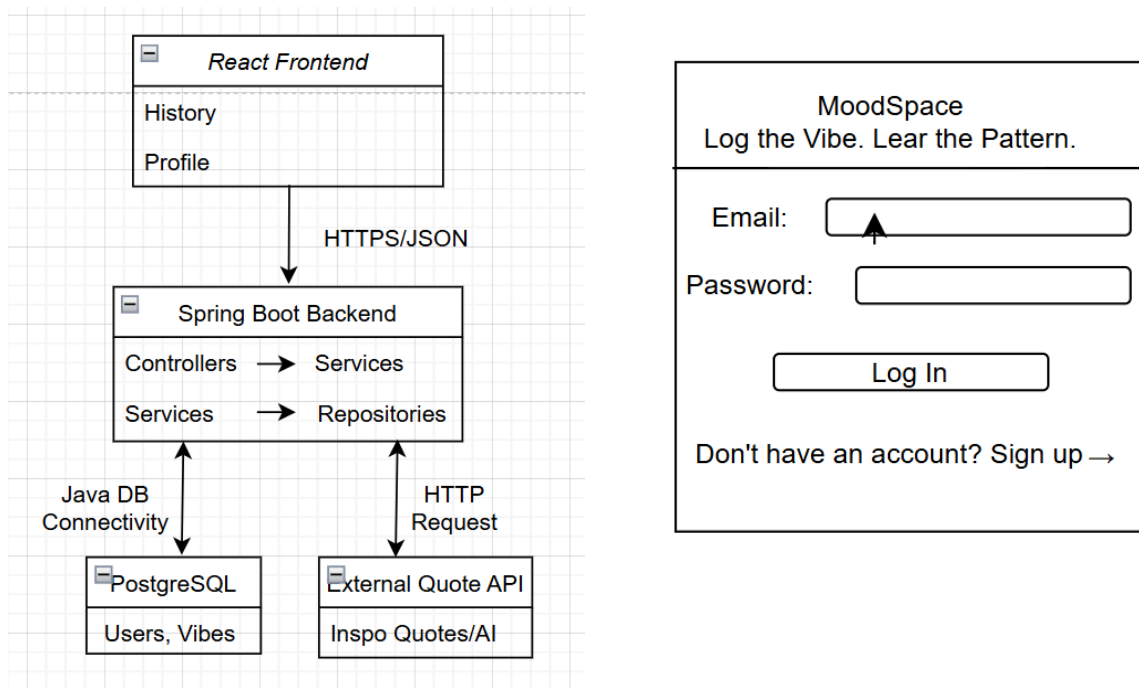
Long id

Long userId

String label

String description

Simple Architecture Diagram and Wireframe Mock-up



Team Roles

Project Manager: Taylor Williams

Frontend: Shemaiah Lester

Backend: Taylor Williams, Logan Boone, Breanna Taffe

Github Repository Link

<https://github.com/taywill05/Final-Project->

AI Usage Log Template

Project Information

- **Course:** COP 3060 – Full Stack Web Development

- **Milestone #:** 1

- **Team Name:** Fantastic Four

- **Team Members:**

Logan Boone

Taylor Williams

Breanna Taffe

Shemaiah Lester

- **Date Submitted:** 11/18/2025

AI Tool Usage Table

Date	AI Tool	Prompt(Summary)	Purpose	Output Used Y/N	Human Revisions	Ethical Reflection
11/12	Copilot	Describe some simple app ideas for an intermediate programmer?	Feature Discovery	Y	Combined the generated vibe check idea with the mood journal feature to use emojis to log daily mood.	We used AI to help us identify some general app topics to build app features around. This AI provided us with a jumping-off point for an app idea that we could create several features around.

Summary of AI Use

AI was utilized to help generate app ideas across various categories, which were then analyzed as potential app options.

Ethical Reflection

The generated app ideas were not used as the final project topic or features, so there is no ethical concern in the creation of our app. We used AI to provide us with different apps that fell into specific categories (e.g., wellness, finances, social media, etc.). The final app idea and features were developed through a group brainstorming session for features that college students would enjoy in a wellness and connection-based application.

Verification Statement

By signing, we confirm all AI usage has been logged accurately and ethically.

Logan Boone

Taylor Williams

Shemaiah Lester

Breanna Taffe