

# Insight Write

*CS 3337-03 202301 Group #7*

**Team Members:** Miguel Gonzalez Torres, Tony Lau, Hoang Le,  
Keyvan Mahmoodzadeh Kani, Will May, Hayk Vardapetyan,  
Jian Verdad, Niyusha Zarnegar.





# Introduction

Team Member Names and Contributions:

- **Full Team Contributions:** Documentation, Software Design, Project Planning
- **Miguel Gonzalez Torres:** Backend Development(python)
- **Tony Lau:** Backend Development (Python) & Testing
- **Hoang Le:** Front-End Development (HTML/CSS/JS)
- **Keyvan Mahmoodzadeh Kani:** Backend (Python) Development & Railway Database
- **Will May:** Front-End Development (HTML/CSS/JS)
- **Hayk Vardapetyan:** Backend Google Login Integration
- **Jian Verdad:** Backend Development (Python) & Railway Database
- **Niyusha Zarnegar:** Database and Server Setup & Testing

- Link to application (if web based):
- Link to GitHub: [Insight Write Repository](#)





# Our Vision!

## Who is the Customer

- Individuals who are interested in personal growth and self-expression



## Problem

- Lack of existing applications which allows the user to freely express themselves
- Many users feel disconnect in their journaling journey cause of a lack of feedback

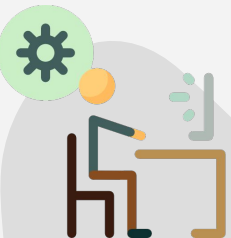
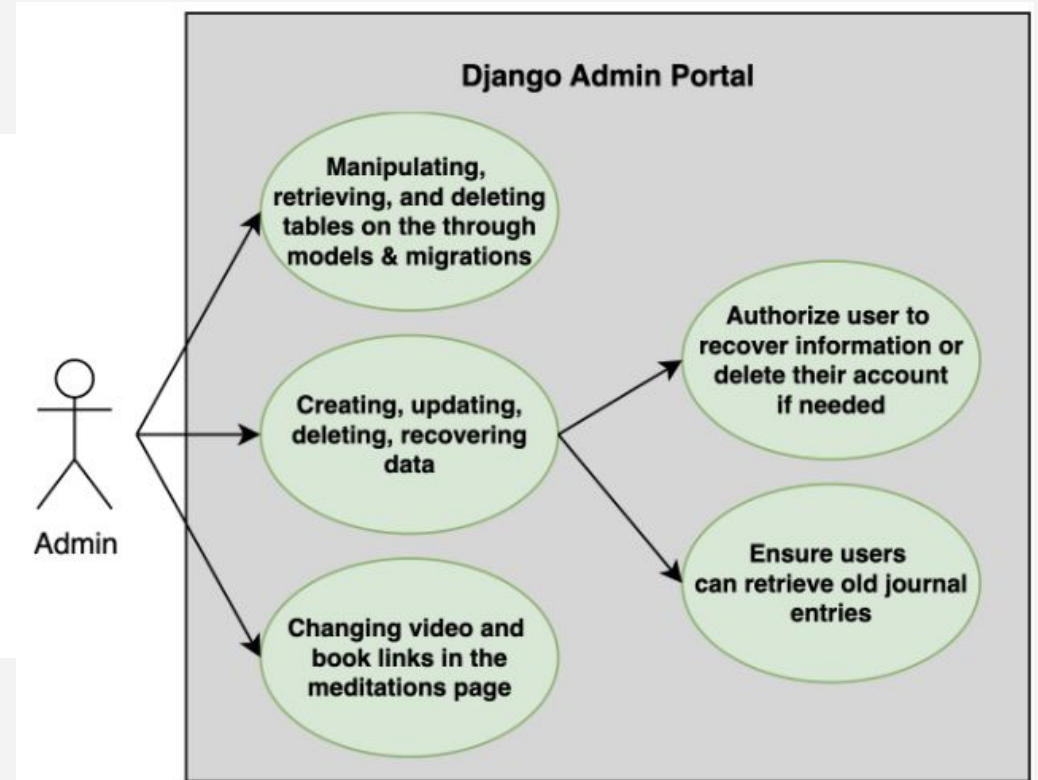
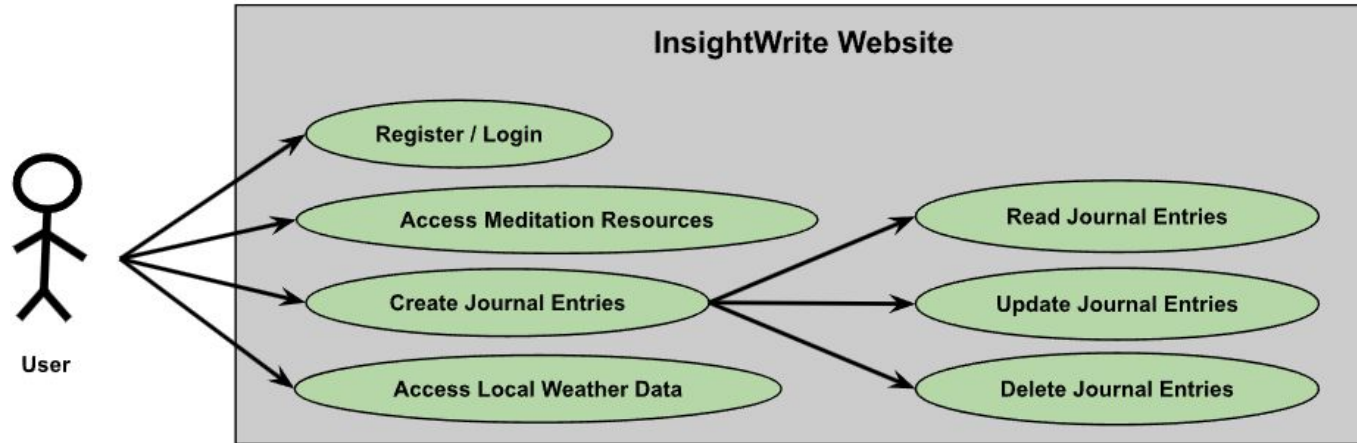


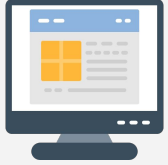
## Digital Solution

- ❖ Our application: A platform with a focus on allowing our user to express themselves through journaling.
  - Facilitates personal growth
  - Provides a private space to reflect
  - Improve mental health

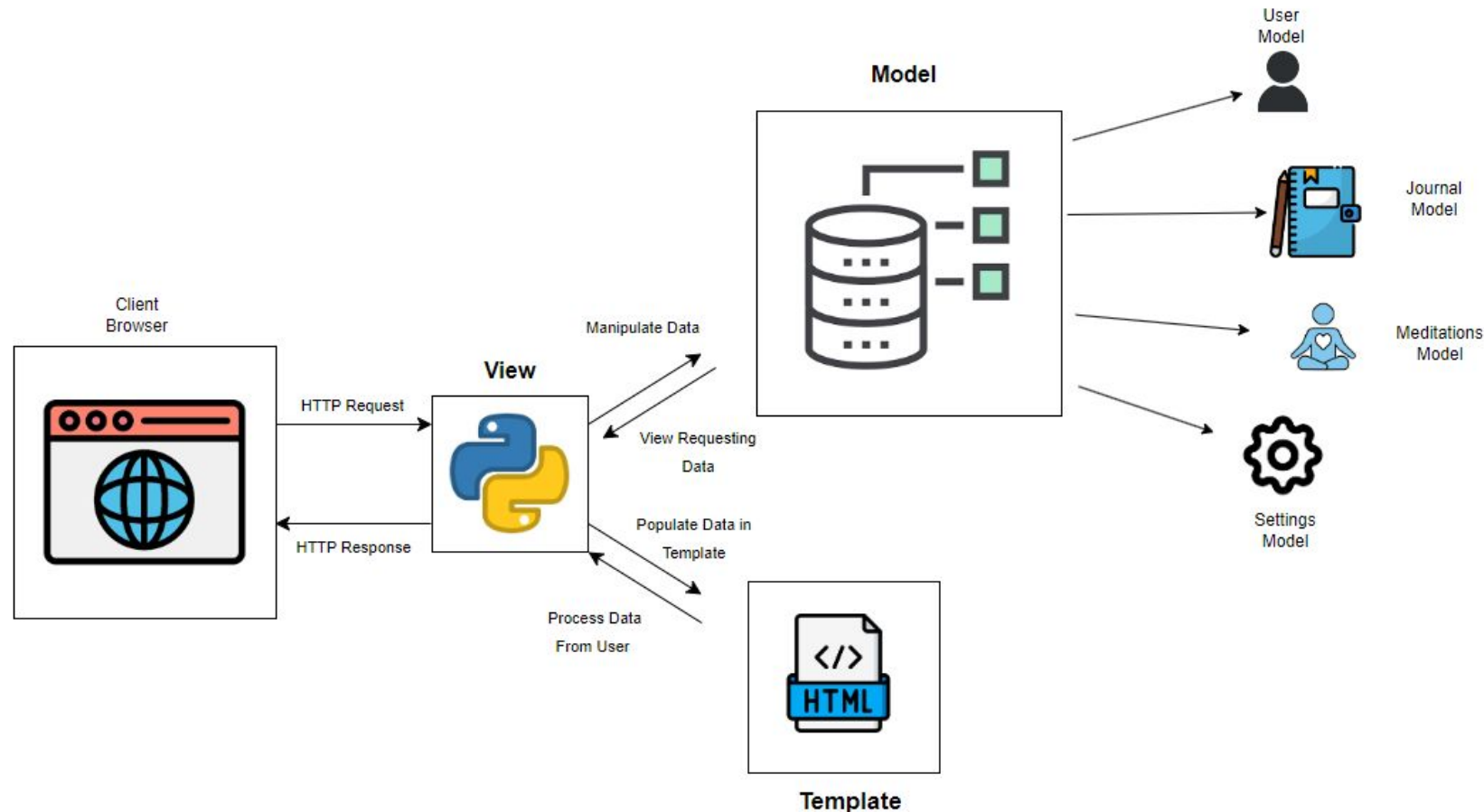


# Application Requirements





# Architectural Design



Non functional requirements that favor this architecture for our web application include extensive security measures in place by MVT / MVC architectures for authentication and encryption, as well as allowing an easy way to be compatible with other third party systems.



# Technologies Used & Implemented

Hoang Le



## Frontend:

- **JavaScript, HTML, and CSS** → Building user interface



## Backend:

- **Python**
  - **Django Framework:** Provides structured web application development
  - **Settings, Models, Views, URLs:** Components to configure, interact with the database, handle logic, and map web requests



## Database:

- **PostgreSQL on Railway** → Store and save users' accounts and journals data.



## Website Hosting:

- **Google Cloud**



## Authentication and Authorization:



**Django Allauth** → Login with Google



## API Integration:



**OpenWeatherMap API** → Retrieve weather information



- **Third Party Libraries:**



**Bootstrap** → Navigation bar



**Boxicons, Ionicons** → Website Icons

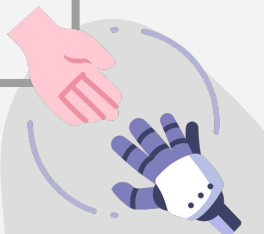


**Font Awesome** → Animations

- **Resources:**



**Pexels** → Background images for our website

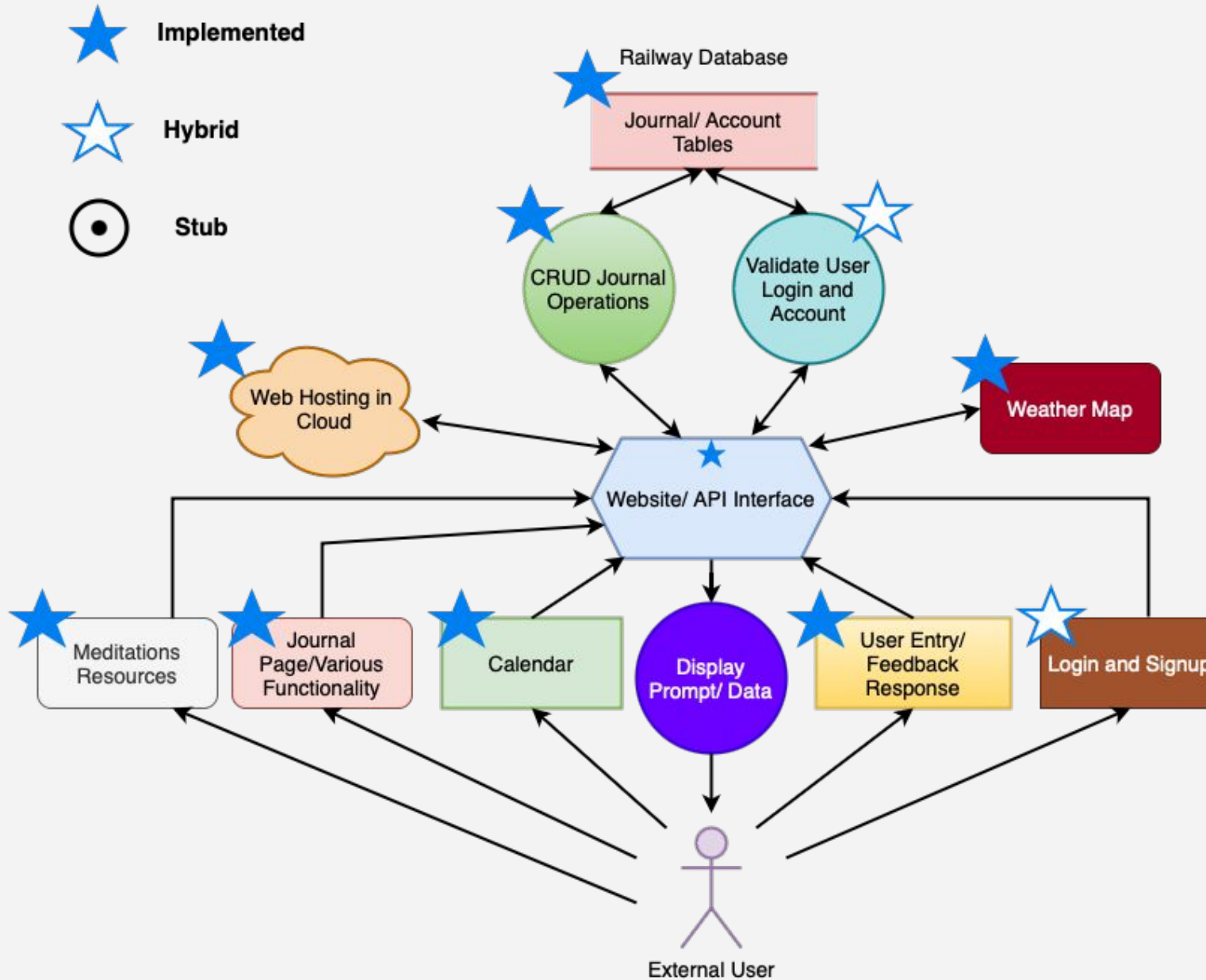


# Processes - Detailed Design

Will May



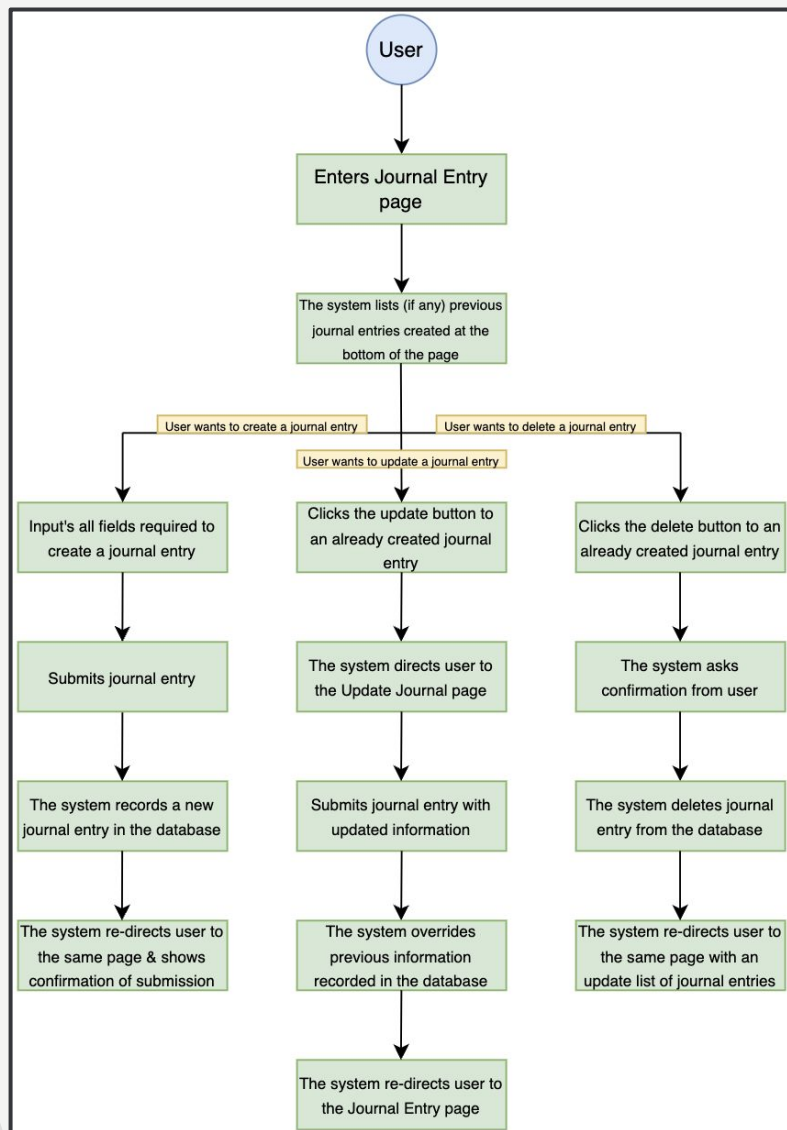
DFD Level 1  
Diagram of  
Insight  
Write







# Behavioral Diagram of Journal Entry

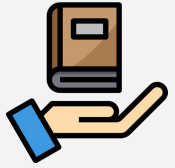


## Journal Entry Management:

Handles the creation, retrieval, update, and deletion (CRUD) operations for user journal entries.

The screenshot shows a web interface titled "Create a Journal Entry". It includes a title input field, a tag ID input field, and a rich text editor for the entry content. The rich text editor has a toolbar with icons for bold, italic, underline, strikethrough, bulleted list, numbered list, link, and unlink. Below the editor is a "Choose File" button and a "No file chosen" message. At the bottom is a "Save Entry" button.

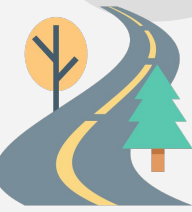




# Lessons Learned

- Docker Issues
- Agile Development was very helpful in communications
- How to better define features and stories
- Learned more about Railway, PostgreSQL, and Google Cloud
- Organizing the repository
- Locally hosting webpages
- The intricacies of how frontend and backend interact
- Integrating APIs
- Whether the data requires a new database or should be put in an existing one



# Column Roadmap (24.0, 24.1, 24.2, Future Enhancements)

**24.0**

- . Selection of Website Hosting
  - Platform: Github Pages
- . UX/UI Design
- . Change Management Plan
- . Unit Testing and Test Plan
  - PyTest
- . Frameworks and Tech Stack:
  - HTML/CSS/JS
  - Bootstrap
  - Django Web Framework
  - MongoDB API
  - NLTK API

**24.1**

Software Test Plan (STP)  
 Software Requirements Document (SRD)  
 Software Design Document (SDD)  
 Journaling Webpage  
 Login Webpage  
 Setting Web Page Design  
 Database Design

**24.2**

Framework Changes

- Django Web Framework to Railway
- PostgreSQL Databases
- Google Cloud

Mostly done with Journal webpage  
 Finalized Signup/Login webpage  
 Dashboard Webpage  
 Meditation Webpage  
 Database Implementation  
 Calendar and adding events  
 Soft API Integration:
 

- Django allauth
- OpenWeatherMap.org

 Journal CRUD operations
 

- Designs, fonts, colors, etc.
- Mini-draggable calendar
- Text-Formatting (Bold, Italics, Hyperlink, etc.)

 Basic Javascript on all webpages  
 Basic Python operations with database

**Future**

Finalize Journal webpage (ex: Tags)  
 Finalize Calendar (ex: email notifications)  
 Unique data verification  
 Encryption/Security  
 Email Verification  
 Setting Web Page (including User Accessibility features)  
 Autosave Data and Information  
 Save images and gifs to database  
 Setting Editing  
 User Profile Page  
 Recovering Trashed Journal Entries



# Demo





# Q & A

