



# Mindful Life Companion Product Presentation

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Luis Sanchez, Emily Perez, Giovanni Chumpitazi, Jay Chow





# Introduction



- **Team members and contributions**

- a. **Anthony Chieng:** Mood tracker, Calendar View, Moods of the week.
- b. **Tommy Works:** Updated Mood of Today, Setting Page/About Page: Connecting, and UI Revamp
- c. **Andy:** Login Page and User Authentication, Password Recovery, Dashboard UI and Quote Display, Quote Generator, Settings Page: Default Mood Category
- d. **Giovanni Chumpitazi:** Journal feature, early dashboard mock-up
- e. **Bryam Ochoa:**User Authentication (send verification email), Alarm Notification feature
- f. **Emily Perez:** About Page
- g. **Luis Sanchez:** Change password and settings
- h. **Jay Chow:** Dark mode and settings

- **link to GitHub (or other configuration management system used)**

- a. <https://github.com/csula-cs3337swe/202401Group2-repo>

Tommy W.

Vision

# Vision (Tommy Works)

- Customer

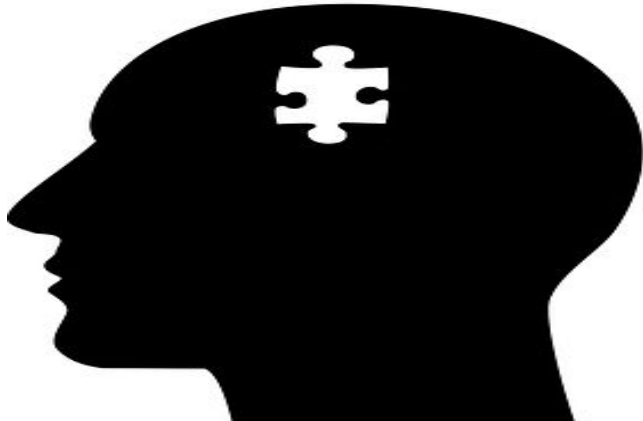
- Target customers: Gen Z, younger generation, and anyone that has mental health issues
- Facing mental health challenges: stress, anxiety, depression
- Digitally savvy, prefer tech solutions

- Problem

- High stress levels due to academic pressure, social media comparison, societal expectations
- Traditional help methods (therapy, counseling) might be stigmatized or inaccessible
- Prefer anonymity and digital platforms for seeking help

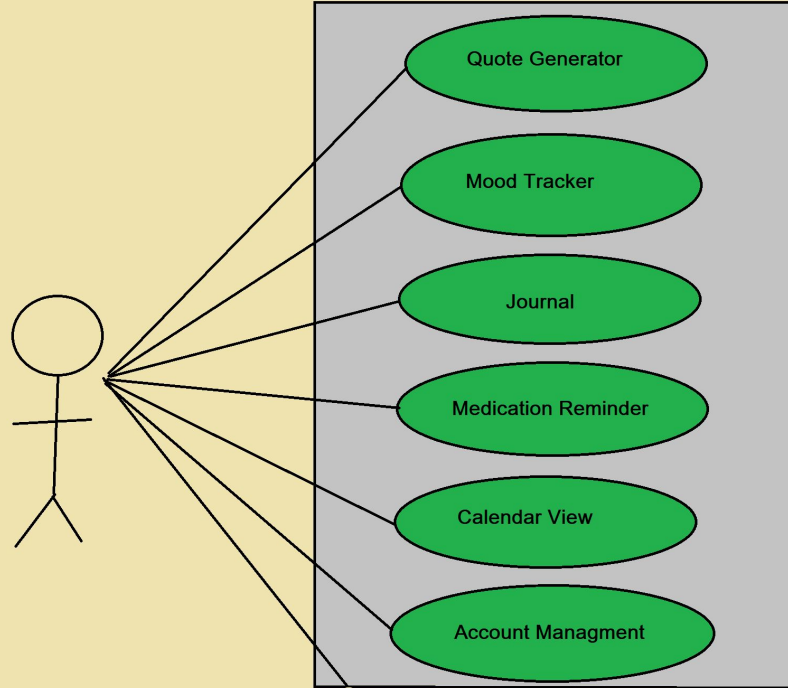
# Vision (Tommy Works)

- Solutions
  - Journal Entry: Log thoughts, feelings, experiences for self-reflection
  - Calendar View with Mood Tracking: Visualize mood patterns, track emotional well-being
  - Quote Generator: Daily uplifting messages, customizable based on preference



# Use Case Diagram

Gio



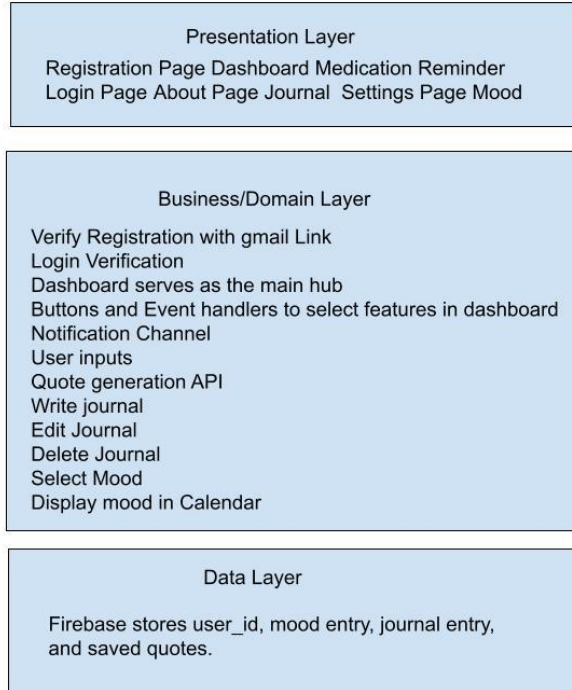
# Architectural Design



# Architectural Design Pattern (Bryam)

- Layered Architectural Design Pattern
  - Separation of Concerns (explain Activity format in android apps)
  - Improved testability
  - Unidirectional Data Flow
- Performance, Security, and Scalability
  - Case by case error detection and prevention
  - Architecture promotes independent coding
  - App easier to maintain

# Architecture Diagram Bryam



```
layout
  <? activity_about_layout.xml
  <? activity_add_journal_entry.xml
  <? activity_calendar_view.xml
  <? activity_change_password.xml
  <? activity_facebook_login.xml
  <? activity_google_login.xml
  <? activity_journal_list.xml
  <? activity_login.xml
  <? activity_main.xml
  <? activity_medication_reminder.xml
  <? activity_mood_tracker.xml
  <? activity_quote_generator.xml
  <? activity_register.xml
  <? activity_reset_password.xml
  <? activity_settings_layout.xml
```

```
Activity
  <? AboutActivity
  <? AddJournalEntryActivity
  <? AlarmReceiver
  <? BookmarksViewAdapter
  <? CalendarViewActivity.kt
  <? ChangePasswordActivity
  <? FacebookLoginActivity
  <? GoogleLoginActivity
  <? JournalEntry
  <? JournalEntryAdapter
  <? JournalListActivity
  <? LoginActivity
  <? MainActivity
  <? MedicationReminderActivity
  <? MoodTrackerActivity
  <? QuoteGeneratorActivity
  <? RegisterNewAccountActivity
```

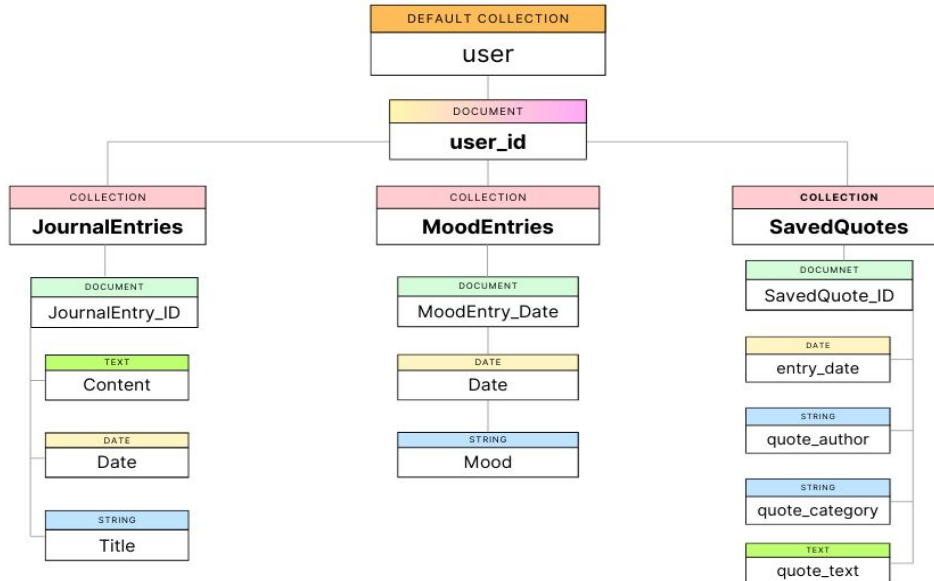


# Database



## Mindful Life Companion

DATABASE ORGANIZATIONAL  
STRUCTURE





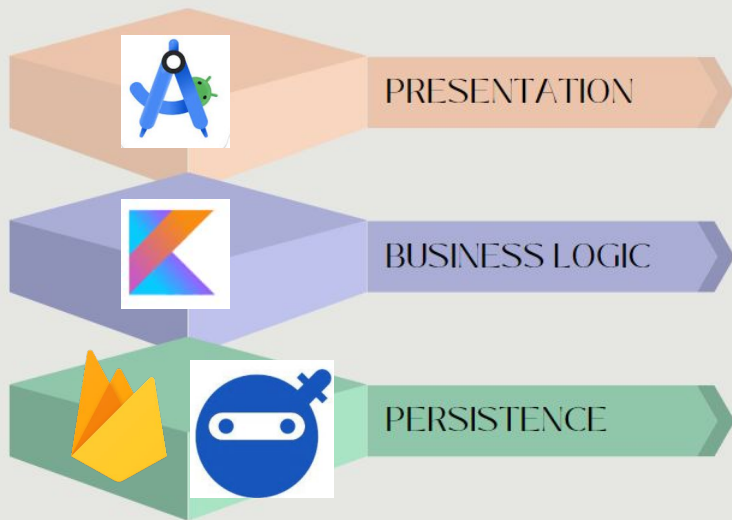
# Detailed Design

Technologies



# Layered Architecture

## Technologies



- XML, Kotlin
- Used to handle user inputs, update the UI, and communicate with the Business Logic Layer
- Kotlin
- Takes requests from the Presentation Layer, processes them and communicates with the Data Access Layer.
- Kotlin, Firebase
- Responsible for storing and retrieving data. It communicates with Firebase to save data, retrieve data, and perform any other necessary database operations.

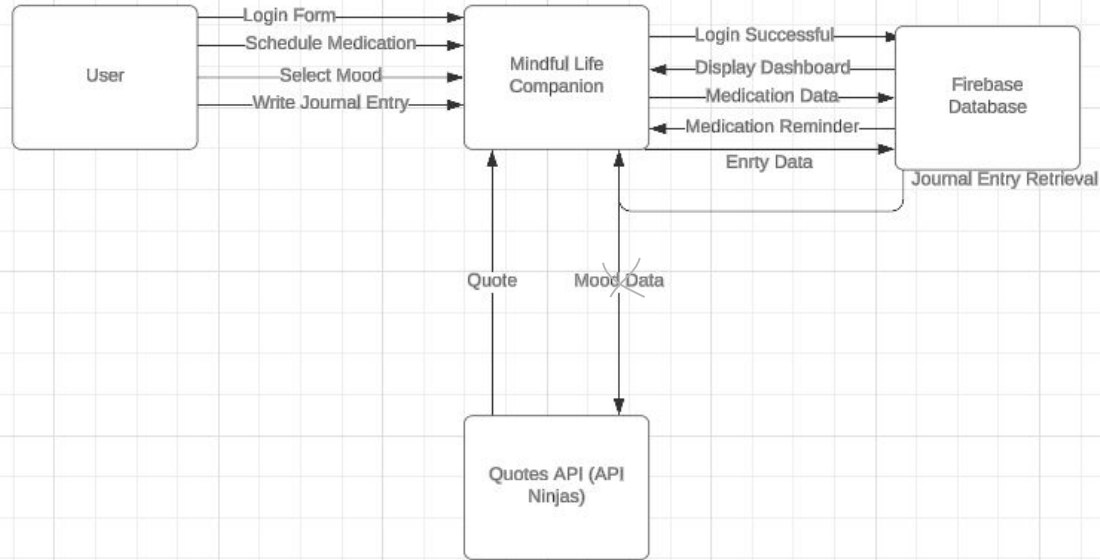


# Detailed Design

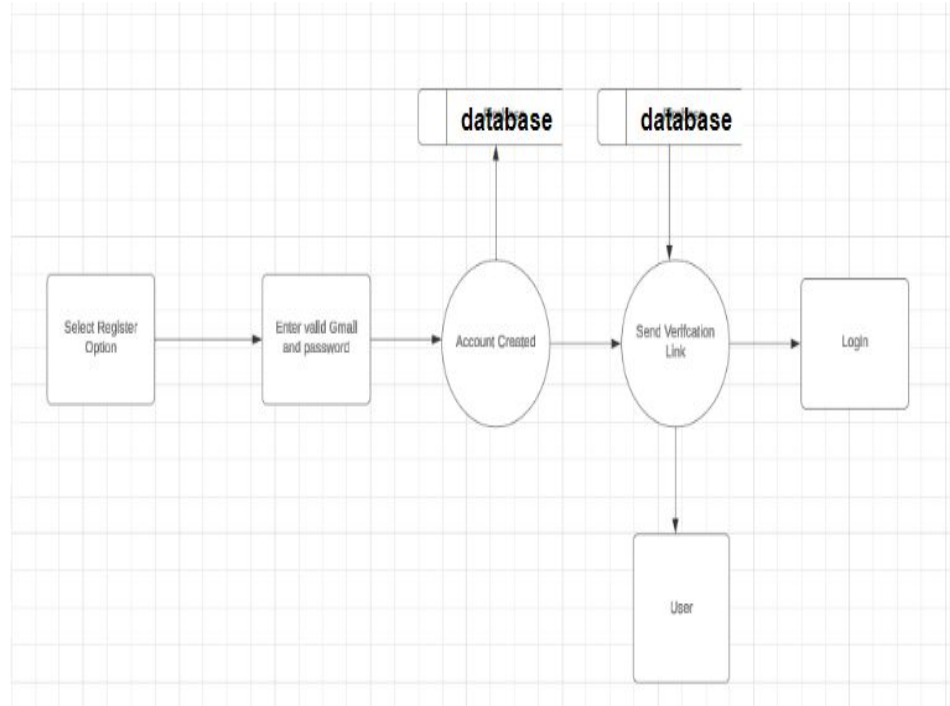
Processes



# Level 0 DFD (App Overview)

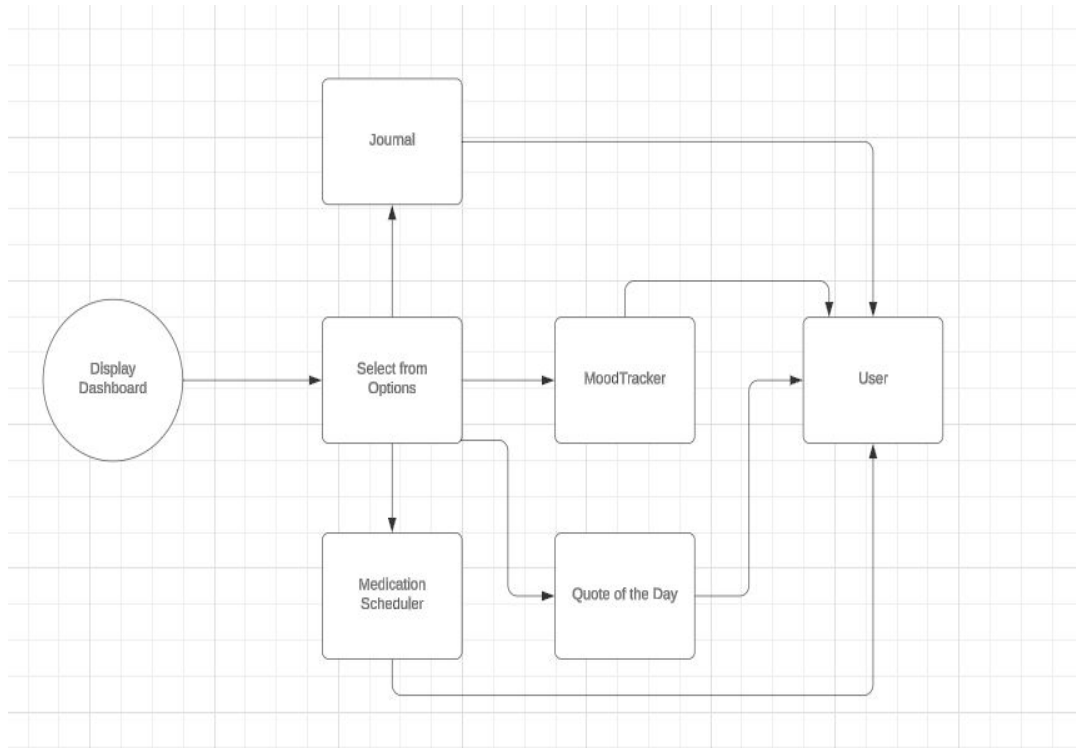


# Level 1 DFDs (Registration)

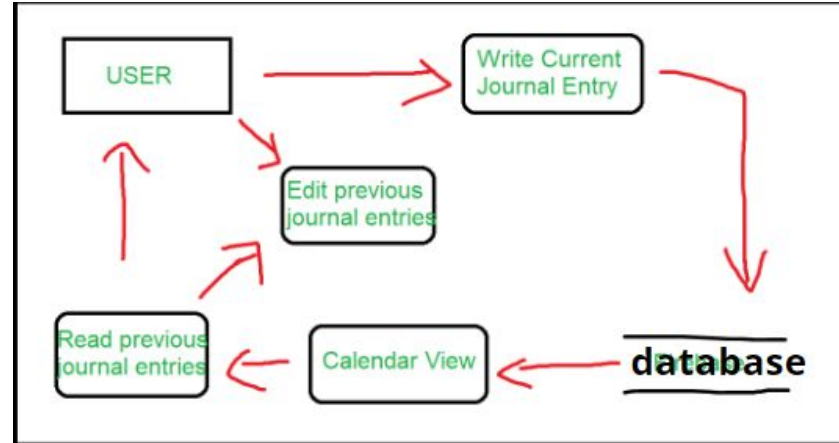
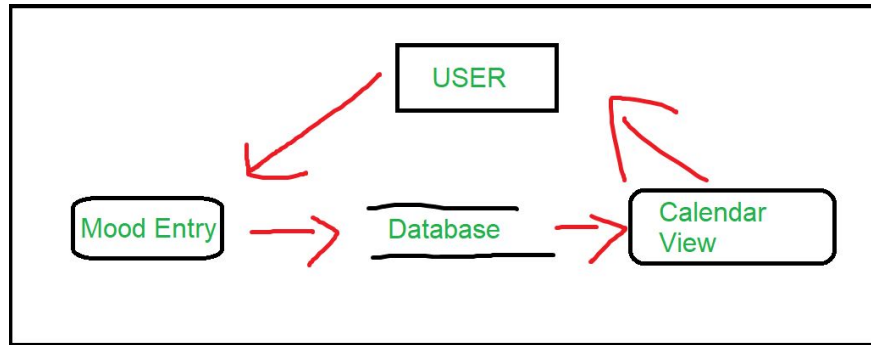




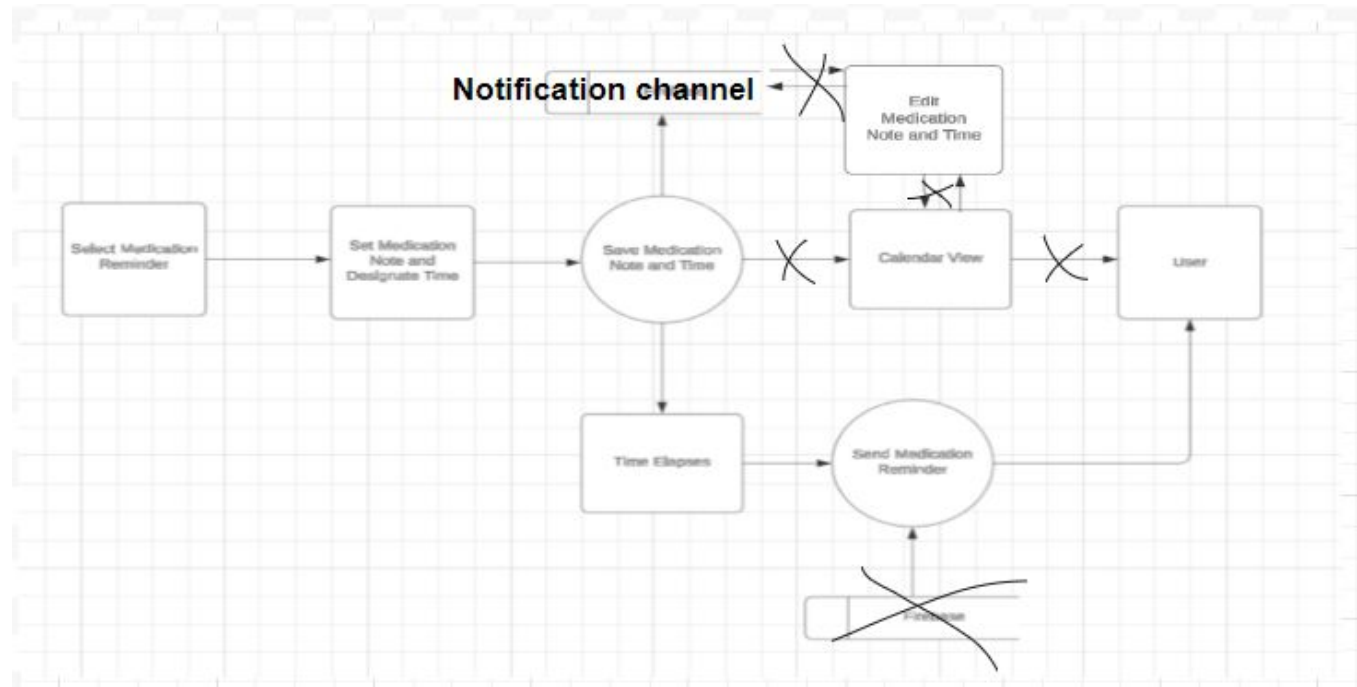
# Level 1 DFDs (Dashboard)



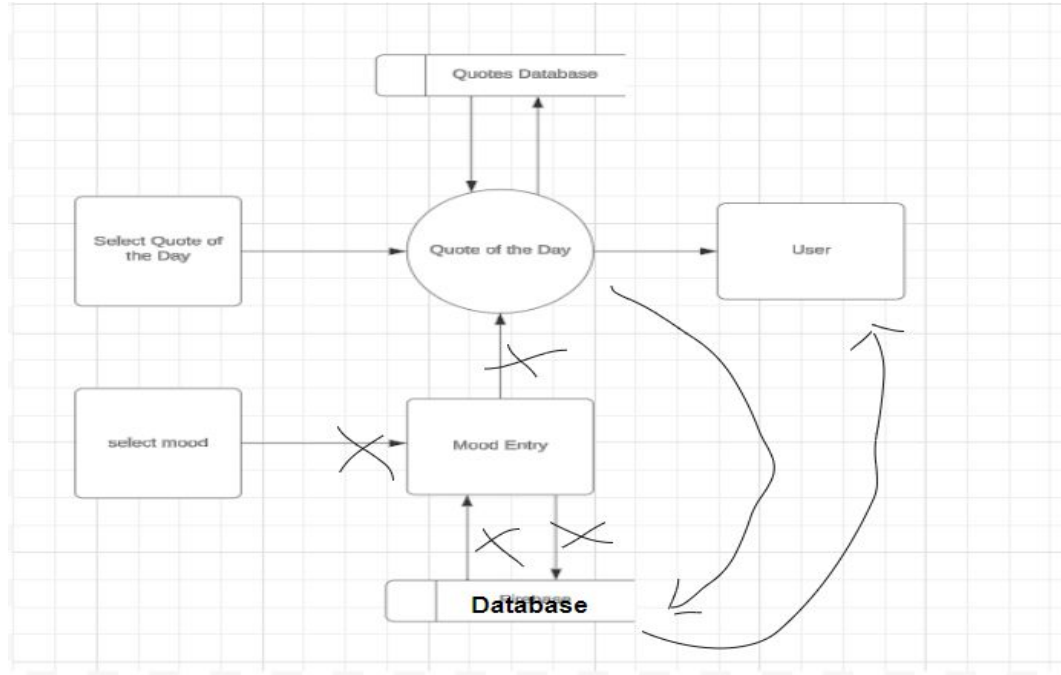
# Level 1 DFDs (Mood Tracker and Journal)



# Level 1 DFDs (Medication Reminder)



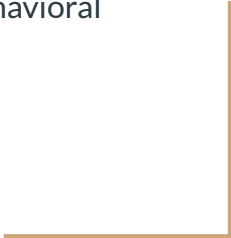
# Level 1 DFDs (Quote Generator)



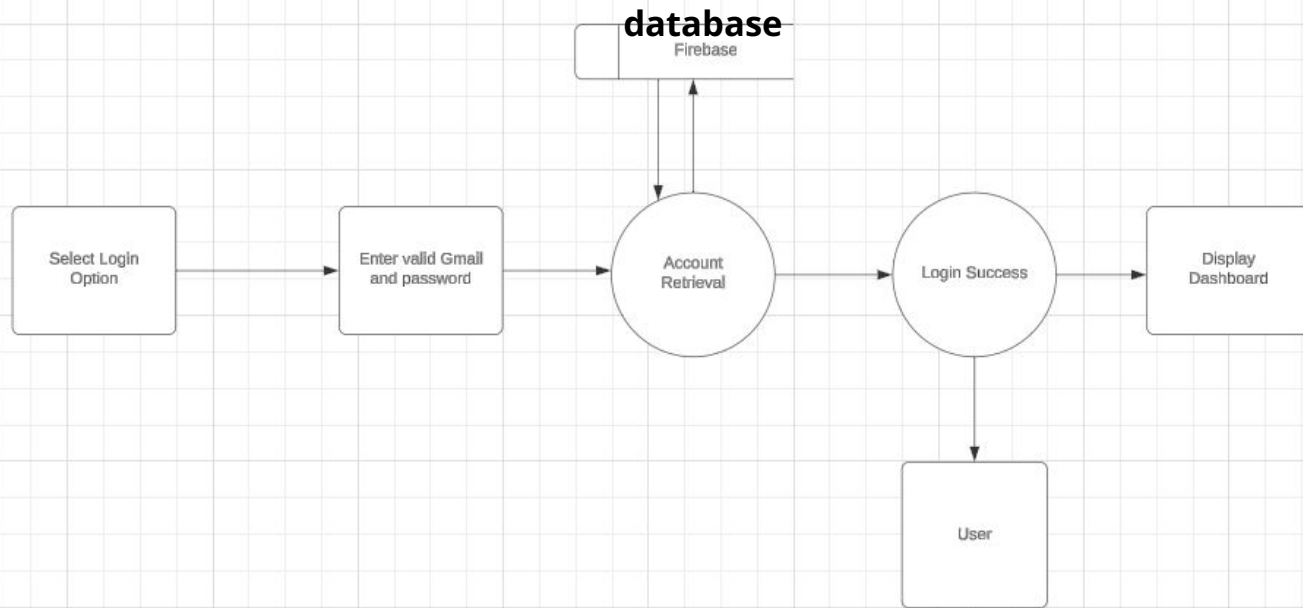


# Detailed Design

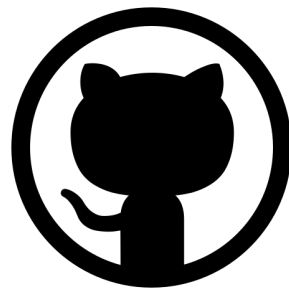
Interaction, Structural, or Behavioral  
diagram



# User Login



# Lessons Learned (Anthony Chieng)



- Experience with new agile
  - Weekly scrum meetings to plan our sprints.
  - Epics, Features, and User stories to organize our tasks.
  - Github projects for organizing backlogs, sprint views, and roadmaps.
- Experience with new technologies
  - Android Studio
  - Kotlin
  - Firebase
  - APIs
  - Git and Github



Firebase

# Roadmap

24.0	24.1	24.2	Future Enhancements
<ul style="list-style-type: none"><li>• Medication Reminder</li><li>• Layout changes</li><li>• Dark mode</li><li>• Forgot Password</li><li>• </li></ul>	<ul style="list-style-type: none"><li>• UI Changes</li><li>• Calendar view</li><li>• Motivational quotes generator in settings</li><li>• Change password</li><li>• Bookmark quote</li></ul>	<ul style="list-style-type: none"><li>• About page</li><li>• Allow notifications in settings page</li><li>• Test dark mode in phone</li><li>• App release</li></ul>	<ul style="list-style-type: none"><li>• Google Authentication</li><li>• Facebook Authentication</li><li>• Adding Images in journal</li><li>• Adding Images for user profile</li><li>• Data visualizer for tracked moods</li><li>• Main mood for the month</li><li>• Offline Support</li><li>• Settings page</li></ul>





Demo



Q&A

Thank You!!!