

## **Hackathon Scenario: Build a Bullet Journal Companion App**

### **Background**

A Bullet Journal (BuJo) is a popular productivity method used to manage daily tasks, events, notes, and emotions in one physical notebook. People usually write everything by hand using simple symbols and marks.

**Some common symbols used in Bullet Journaling are:**

• (Dot) for tasks

O (Alphabet “O”) for scheduled events

X for completed tasks

/ for tasks in progress

Filled O for event completed

Notes, emotions, and journal entries are also written in free text.

Example :

Everything stays inside a paper notebook, and this companion app is meant to bring that experience into the digital world.

### **Your Challenge**

Your goal is to build a Companion App for the Bullet Journal system. The app should work with handwritten pages from a physical notebook.

### **Core Requirements**

#### **1. Scan a Handwritten Bullet Journal Page**

- The user takes a photo or scans a page from their notebook.
- The app should detect:
  - ❖ Tasks / To-dos
  - ❖ Scheduled events
  - ❖ Notes

- ❖ Emotions
- Based on the symbols used, the app should understand the status:
  - ❖ X → Completed
  - ❖ / → In Progress\*\*
  - ❖ O → Scheduled
  - ❖ Filled O → Event completed

## 2. Convert and Store the Data Digitally

After scanning, the app must convert the handwritten content into the following:

### a. Tasks / To-dos

- Should be exported to any task management system (your choice Eg: Microsoft To Do, Google Tasks, Notion etc. ).
- Should also be saved in TaskPaper format (a common text-based format for tasks).

### b. Notes & Emotions

- Must be converted into Markdown format.
- Should be stored in your app or a simple file system.

## 3. Ability to Query the Data

Your app should allow users to:

- Search for any task, note, or entry that was scanned earlier.
- Retrieve the stored markdown notes or TaskPaper tasks.

## 4. Update Existing Entries

When users scan the same page again after updating it:

- The app should update existing tasks, notes, or entries.
- It must NOT create duplicate entries for the same scanned items.
- For example, if a task was “in progress” earlier and now has an “X” mark, the status must be updated to “completed”.

## Optional Features (Bonus Points)

These are not mandatory, but add value:

### Threading Support

If a journal entry is continued across multiple pages, the app should:

- Identify the continuation
- Link related notes together as a single thread

You may research more on “threading in journaling.”

## **Hackathon Flow**

1. Build the Minimum Viable Product (Bujo Companion App):

Scan → Extract → Convert → Store → Query → Update

2. End of Day Submission:

Share your progress with your coordinator and publish your work in the group.

3. Jury Review:

Hackathon judges will give suggestions.

4. Next Day Enhancements:

Implement improvements based on the feedback.

## **All the best!**

This challenge is designed to be fun, creative, and hands-on. Explore, experiment, and enjoy building your Bullet Journal Companion App!