

Group 14

 Rashi Bhansali

 Mitchel Hsu

 Kenny Liu

 Zihan Ling

 Shyam Sriram

 Shouhardik Saha

 Philemon Putra

 Jet Zhao

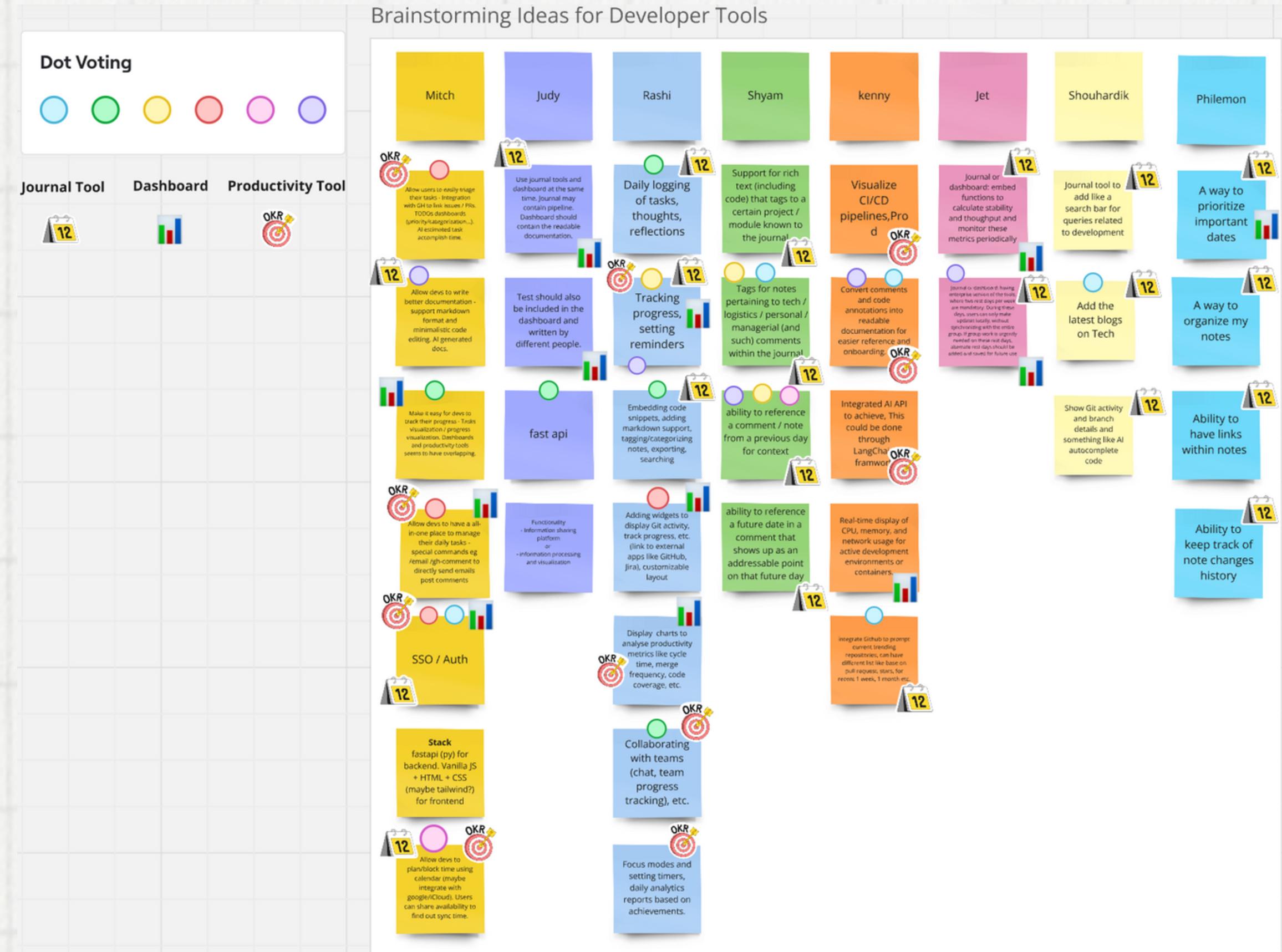
Greenfield

Why?

- From the warm-up activity, we lacked the motivation to work on something that wasn't ours.
- Given our beginner skill set, it is easier to work on and practice creating a web-based tool from scratch.
- Freedom in design choice.
- Pride, excitement and ownership.

Brainstorming Ideas

Brainstorming Ideas for Developer Tools



DevInks

Developer Focused Journal Tool

Our Developer Journal Tool would be a comprehensive platform that helps developers seamlessly

- track tasks,
- manage project milestones and
- document code

It'd enable the storage of reusable code snippets, notes, and daily task logs, with built-in reminders for timely task completion.

Users can reference previous work, schedule focused calendar blocks, access technical research, and sketch/design, all within one tool.

Additionally, the platform should support writing and sharing personal technical blogs, creating an enriched and organized experience for developers to enhance productivity and knowledge retention.



Existing App Research



NOTION

- All-in-one workspace
- Allows collaboration
- Too complex [More = != better]
- No offline mode
- Structure enforcement
- Limited to markdown format

OBSIDIAN

- Graph view, canvas feature
 - allows rich info
- free-flowing, no structure enforcement
- No online sync across devices for free
- Steep learning curve

MEM

- AI integration
- Helps find document faster
- Smooth UX
- Very focused on personal productivity

User Personas ↗

RACHEL GARCIA



AGE 21 YEARS
SEX FEMALE
LANGUAGE Spanish
EDUCATION Undergrad, CSE in Italy
OCCUPATION Student dev / UI/UX freelancer
MARITAL STATUS Dating

RAM KUMAR



AGE 27 YEARS
SEX MALE
LANGUAGE Telugu, Hindi, English
EDUCATION Master's in CSE
OCCUPATION Mid-level Software Developer
MARITAL STATUS Married

EMMA



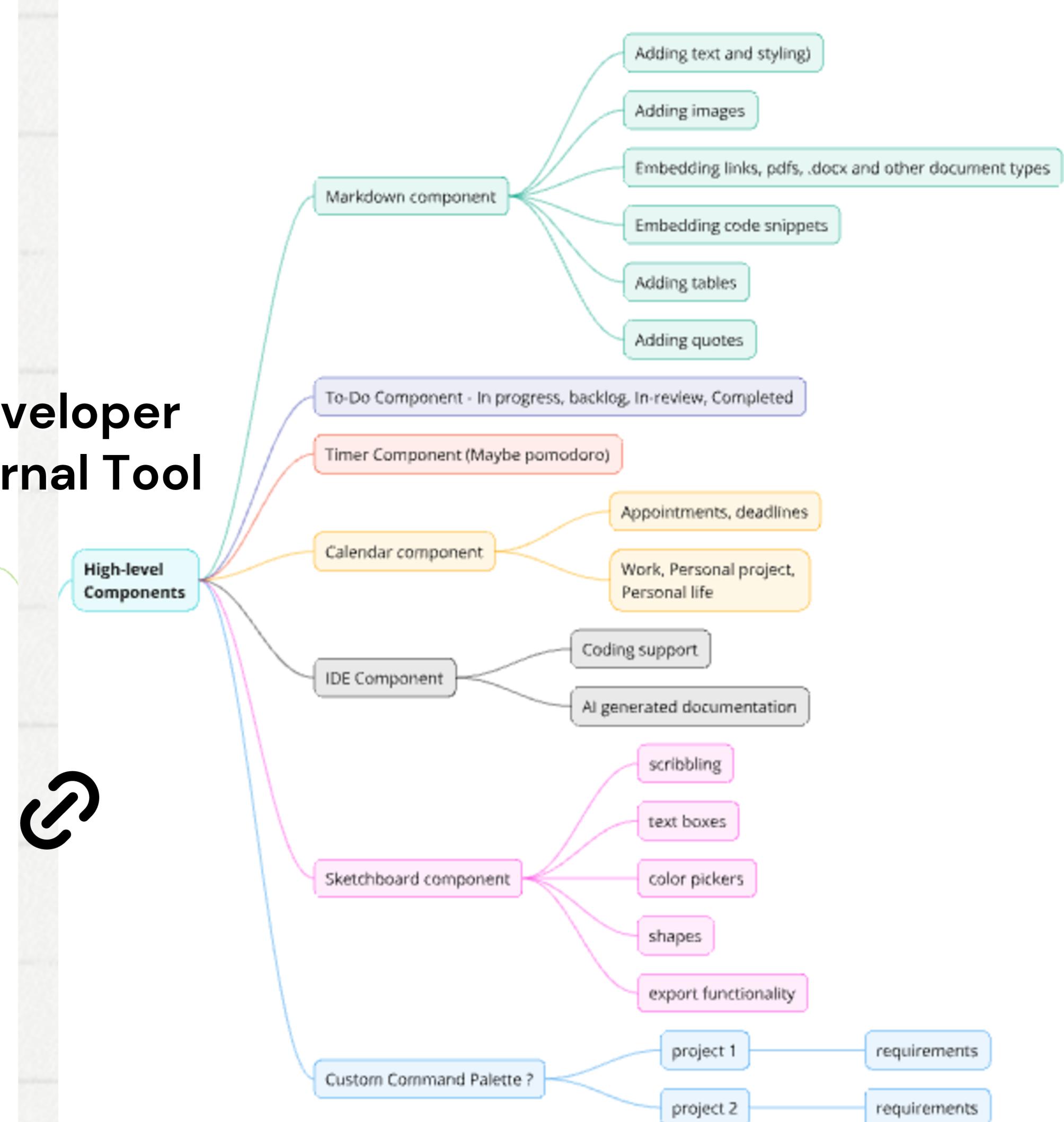
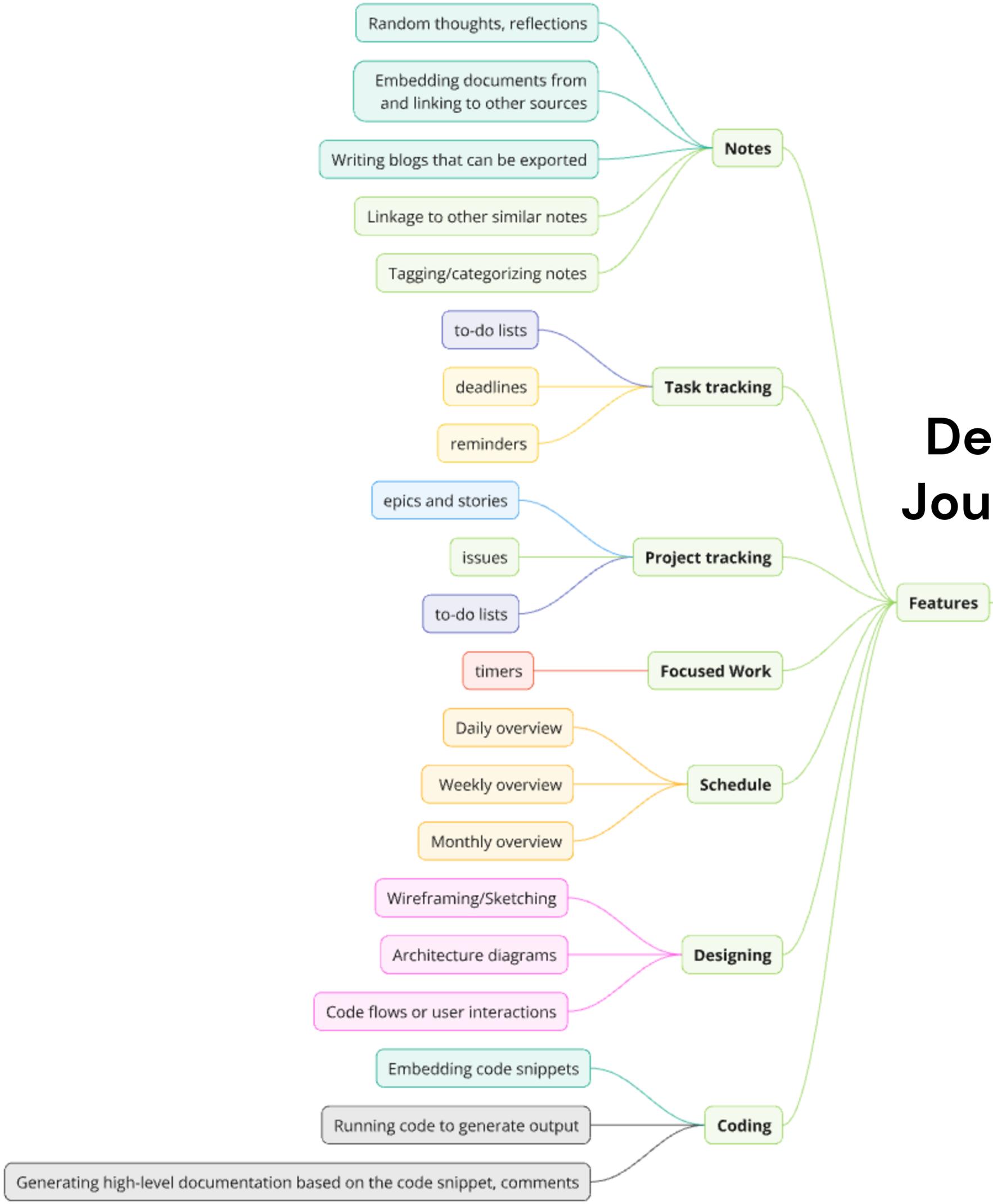
AGE 35
SEX Female
LANGUAGE English
EDUCATION MBA
OCCUPATION Tech Lead
MARITAL STATUS Single

MARK WILLIAMS



AGE 23
SEX Male
LANGUAGE English
EDUCATION UCSD, Bachelors
OCCUPATION Software Engineer
MARITAL STATUS Dating

Developer Journal Tool





Developer Journal Tool



Skill Limit - Adding complicated features may be beyond our scope of skill sets and may take longer to implement

Complexity - Adding too many features can make it similar to Notion, where users might get overwhelmed; Need to keep it minimal and focused around the usecase

Time Constraint - Given 3 sprints, we need to ensure MVP features are developed, tested and a CI/CD is setup. Prioritizing tasks is important.

Design Changes - Adjustments due to feedback that alter original designs or features, potentially impacting the timeline.

Team Communication - Coordination may take much more time than expected, and may delay the process given the tight time constraints.



Tentative Roadmap

Design Phase

- Brainstorming ideas, finalizing topics
- User personas and mind-maps for functionalities & challenges
- High-level Wireframing
- Technology stack & architecture (client/server)

OUTCOME

Feature stack – MVP + additional

Sprint 1

- Repository organization
- Minimalistic UI design
- Implementing MVP features – to-do lists, markdown support & IDE support
- Documenting as we go

OUTCOME

A minimally functional journal tool where developers can create and save journal entries

Sprint 2

- Implementing IndexedDB APIs for saving and fetching files
- Unit tests
- CI/CD for deployment
- Enhancing MVP features
- Making them accessible.

OUTCOME

End-to-end journal tool with testing and CI/CD. The journal tool now has **better UI**.

Sprint 3

- Prioritizing additional features, implementing them
- Integration testing
- Demo preparation (documenting screenshots, functionalities achieved, etc.)

OUTCOME

A fully-functional, minimal and accessible application that has been tested thoroughly.

Wireframe

The wireframe depicts a mobile application interface for "John's Dev Journal".

Header: devJournal.com, John's Dev Journal

Left Column (Diary):

- Oct 31 - Thu
- Nov 1 - Fri
- 2 - Sat
- 3 - Sun
- 4 - Mon
- 5 - Tue
- 6 - Wed

Journal:

- Flask Project ✓
- Team Disc
- Modules ↗
- Progress
- Christmas Card ✓
- Invites
- Photos
- Text

Main Content Area:

Journal: Flask Project / Modules

- Module 3-1**
 - set up VS Code
 - install dependencies
 - run Hello World
- Module 3-2**
 - <html>
 - <div>
 - <p>Hello World!</p>
 - </div>
 - </html>
- Flask gives production grade bugs

Right Column (Tasks):

- Craft Christmas cards
- Debug module 3-2
- Flask project
- Research LLM Sec

Notes:

- FastAPI seems like a better choice than DRF
- Allan is on sick leave next week

Calendar:

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28