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

Dot Voting

Journal Tool | Dashboard | Productivity Tool

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

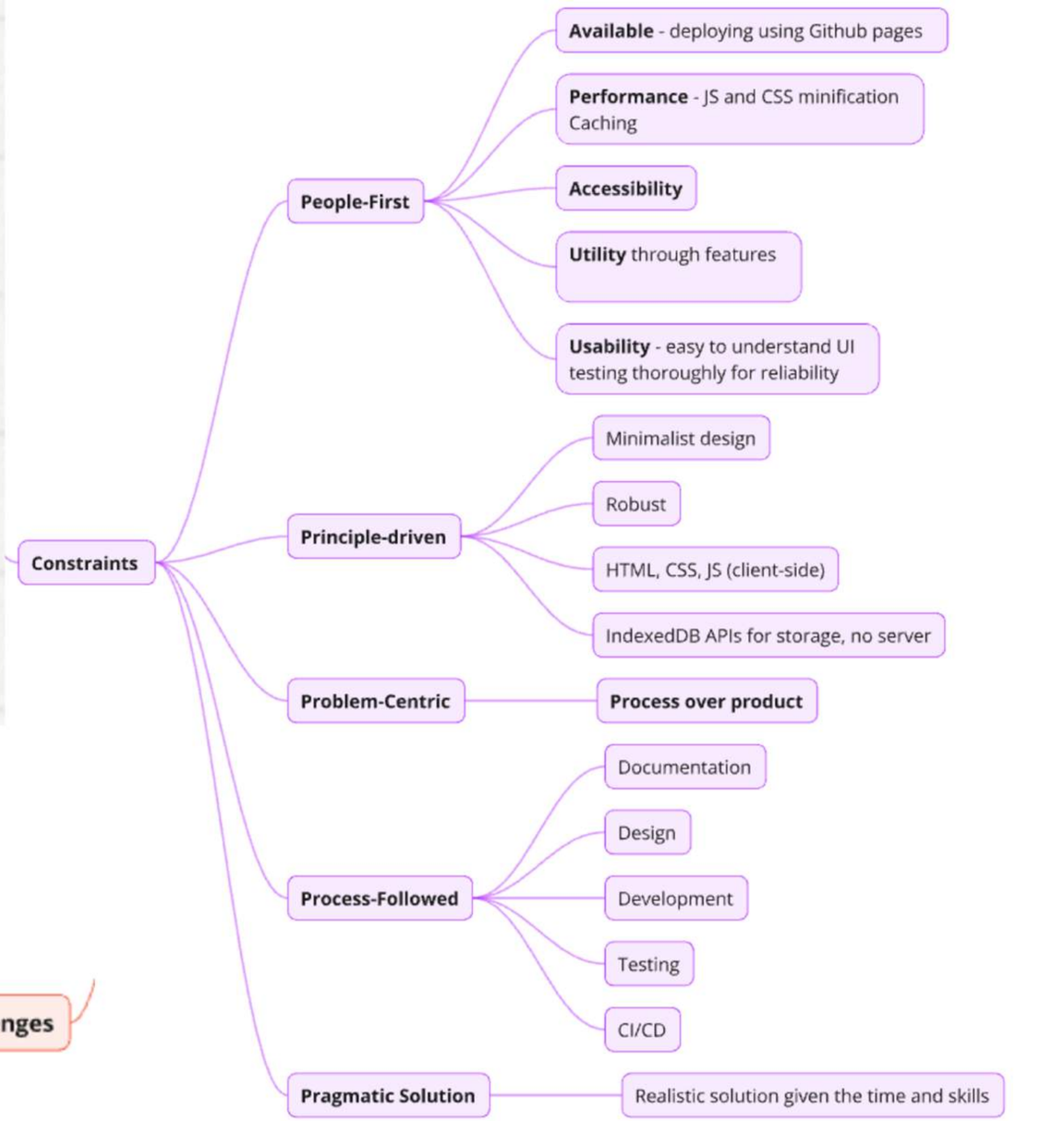
AGE	23
SEX	Male
LANGUAGE	English
EDUCATION	UCSD, Bachelors
OCCUPATION	Software Engineer
MARITAL STATUS	Dating

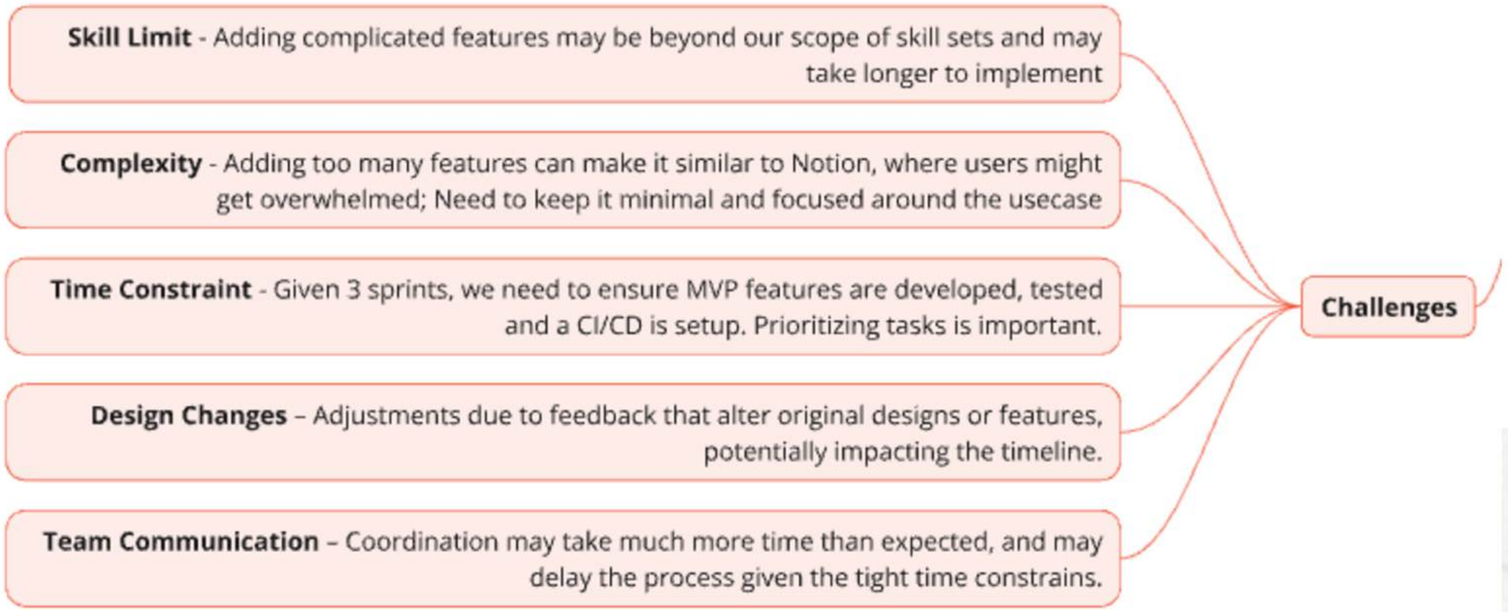
Developer Journal Tool

- Features
  - Notes
    - Random thoughts, reflections
    - Embedding documents from and linking to other sources
    - Writing blogs that can be exported
    - Linkage to other similar notes
    - Tagging/categorizing notes
  - Task tracking
    - to-do lists
    - deadlines
    - reminders
  - Project tracking
    - epics and stories
    - issues
    - to-do lists
  - Focused Work
    - timers
  - Schedule
    - Daily overview
    - Weekly overview
    - Monthly overview
  - Designing
    - Wireframing/Sketching
    - Architecture diagrams
    - Code flows or user interactions
  - Coding
    - Embedding code snippets
    - Running code to generate output
    - Generating high-level documentation based on the code snippet, comments

- High-level Components
  - Markdown component
    - Adding text and styling)
    - Adding images
    - Embedding links, pdfs, .docx and other document types
    - Embedding code snippets
    - Adding tables
    - Adding quotes
  - To-Do Component - In progress, backlog, In-review, Completed
  - Timer Component (Maybe pomodoro)
  - Calendar component
    - Appointments, deadlines
    - Work, Personal project, Personal life
  - IDE Component
    - Coding support
    - AI generated documentation
  - Sketchboard component
    - scribbling
    - text boxes
    - color pickers
    - shapes
    - export functionality
  - Custom Command Palette ?
    - project 1
      - requirements
    - project 2
      - requirements

Developer Journal Tool





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.**

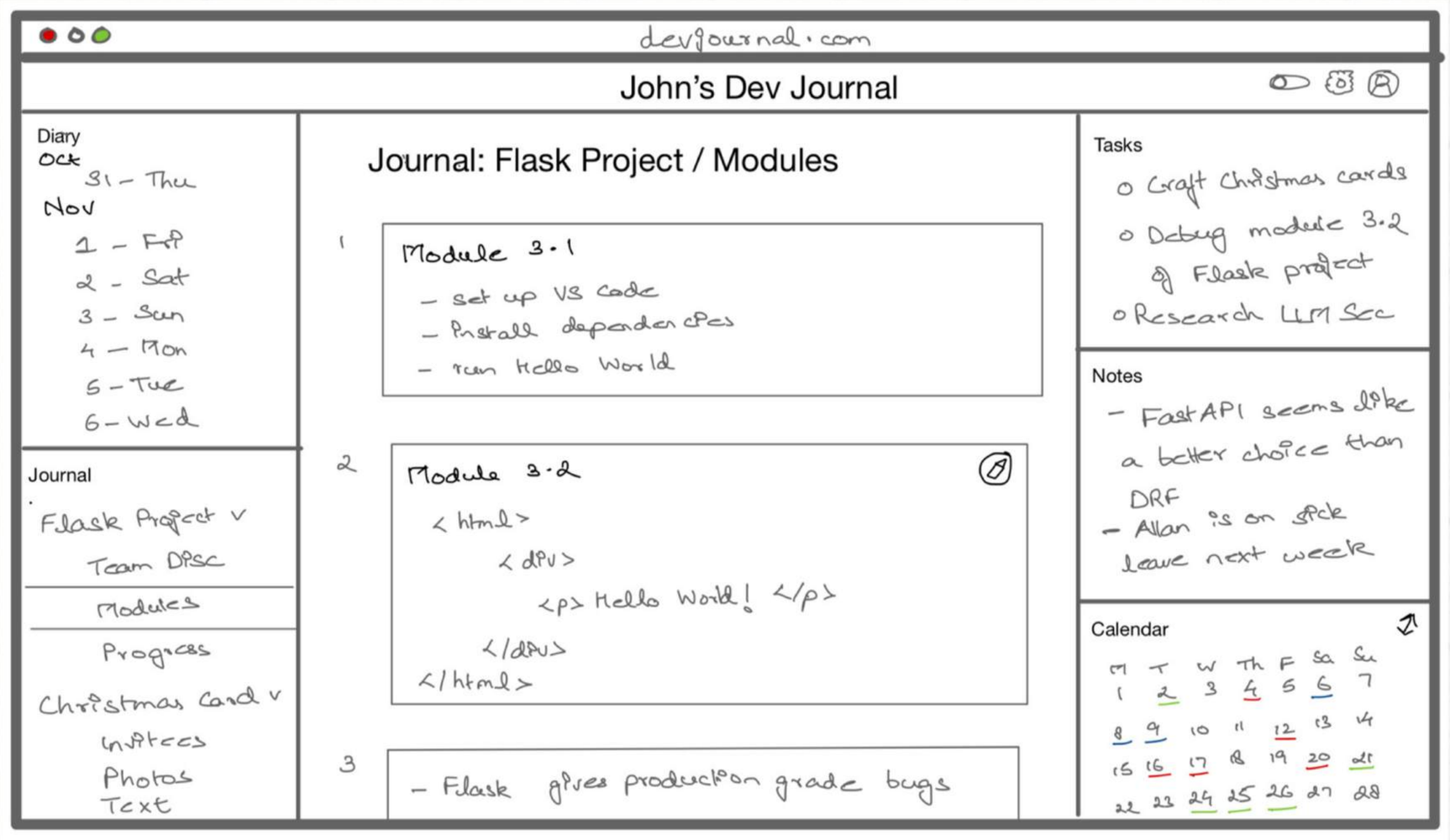
Sprint 3

- 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


devjournal.com
John's Dev Journal
Diary
Oct
31 – Thu
Nov
1 – Fri
2 – Sat
3 – Sun
4 – Mon
5 – Tue
6 – Wed
Journal
Flask Project v
Team Disc
Modules
Progress
Christmas Card v
Invites
Photos
Text
Journal: Flask Project / Modules
1
Module 3.1
– set up VS code
– Install dependencies
– run Hello World
2
Module 3.2
<html>

 Hello World!

</html>
3
– Flask gives production grade bugs
Tasks
o Craft Christmas cards
o Debug module 3.2
of Flask project
o Research LLM Sec
Notes
– FastAPI seems like a better choice than DRF
– Allan is on sick leave next week
Calendar
M T W Th F Sa Su
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