

Statement of Purpose: We are building a Software Engineer management tool for teaching staff and students to help students structure their team progress and help staff stay in the loop of the team's progress.

The idea of the Conductor tool is to provide utilities and insights that allow a large scale software engineering class to run more smoothly and to give more time to teaching staff and students to focus on the more interesting parts of Software Engineering.

Problem our
tool is trying
to solve

The tool should automate time consuming tasks as well as provide a structure to capture observations clearly for fair student and group evaluation.

Teaching Staff

Professor : They have industry and teaching experience.

Based on User Study Interviews: Funding cuts are affecting future SE course planning, leading to fewer staff and less assignment capacity for students. Professor Bill mentioned that a transparent dashboard in the Conductor Tool would simplify evaluations and improve team dynamics.

TA : They are the mentors/point of contact to the students. They meet with each team weekly and help with grading.

Based on User Study Interviews: In Progress (Sriraksha signed up to interview Sammed)

Tutor : They help professors and TAs but their main role is helping with labs. (at least for 110 at UCSD)

Based on User Study Interviews: In Progress ()

Students

All Students : Could be undergrads or grad students depending on the course. They have lectures and project for the most part. 110 has labs.

Based on User Study Interviews: (3)

- Some students take leadership roles like Front-End Lead. Meetings with the TA are more like "catch up" sessions than actual help. Balancing learning programming skills and project work is challenging but interesting.
- Most work is done at the end of the quarter. The class has too many tasks and assignments across different platforms, making it hard to keep track.
- Learning is dynamic, based on student feedback, with communication mainly before or after class. Independent work is emphasized, and 110 includes admin tasks like organizing groups and filling forms.

Team Lead : Two students in each group are leaders for their groups. This means they are expected to help manage the team, be in communication with the TA and professor, and overall help ensure there is progress in the project.

Based on User Study Interviews: In Progress ()

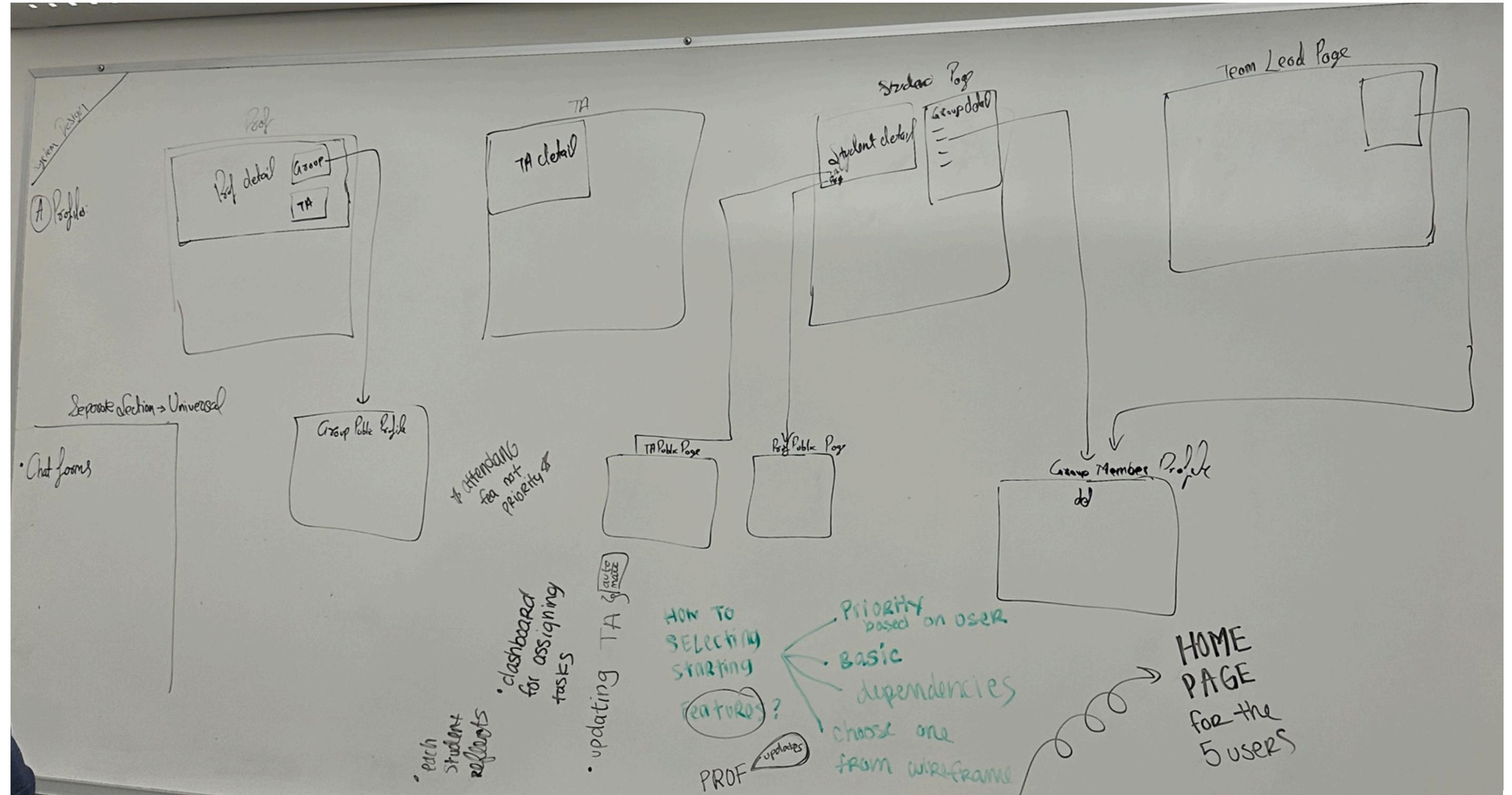
As a team leader I want to know who is on my team and details about them so I can better lead them

Feature : Team Directory

Milestone 1

Front End for the 5 User Profiles

Andrew
Andrija
Peter



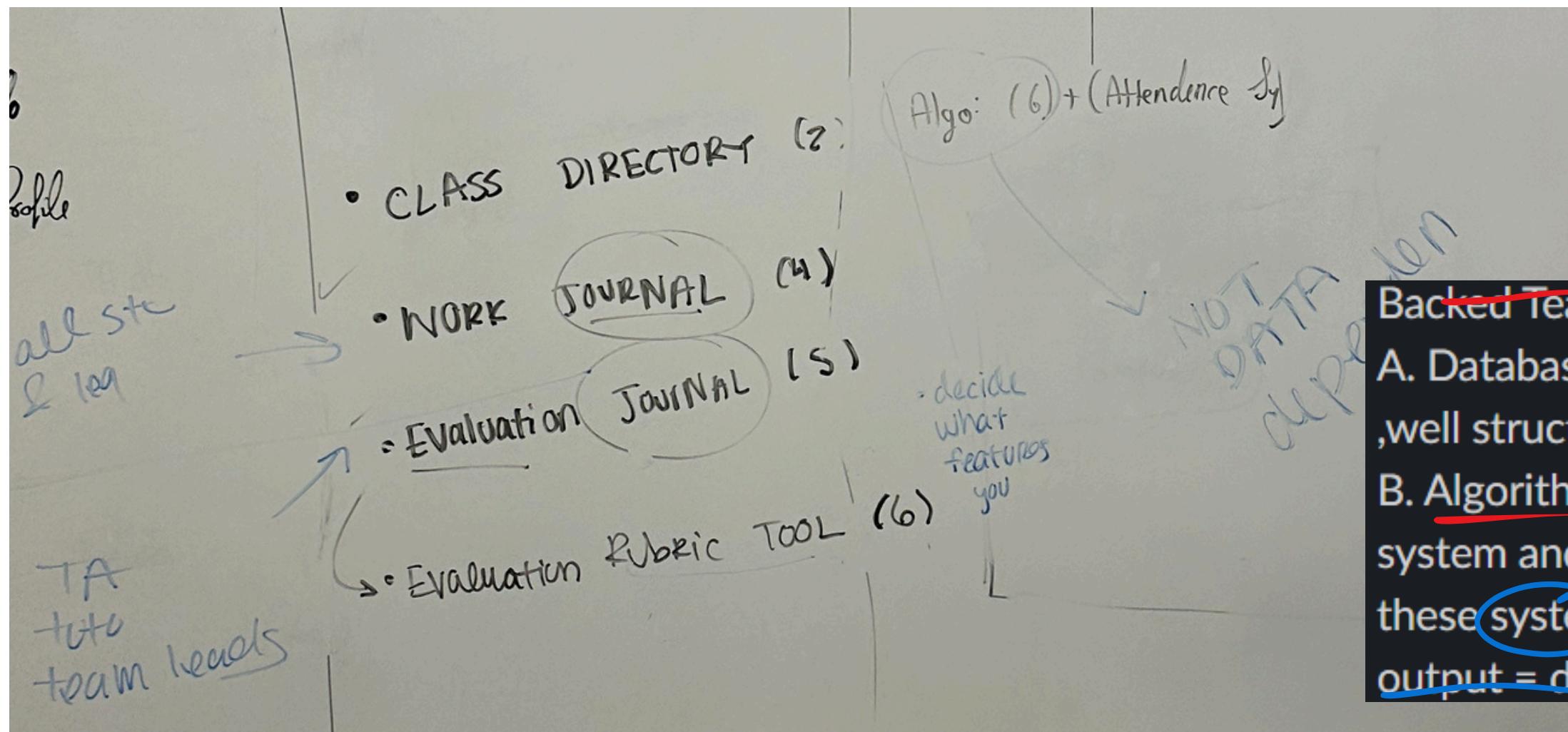
Homepage Ideas

- Interactive 3D World
 - Why? Gamified Experience to motivate all students
 - Like roblox

RISK: too complex and might delay the time for the app to load. Pivot to: making it user POV but not exactly sure how yet.



Back End



~~Backed Team~~

- A. Database team : coming up with class directory schema ,well structured and formulated
- B. Algorithm team : algorithm for rubric tool , attendance system and group formation algo (feature we need for these systems to work, function where input = feature and output = desired system role)

Back End: please react with the emoji to the feature you want to work on. all features should have members working on them

Class Directory (Feature 2 on craft notes)

Work Journal

Evaluation Journal

Evaluation Rubric Tool

3

4

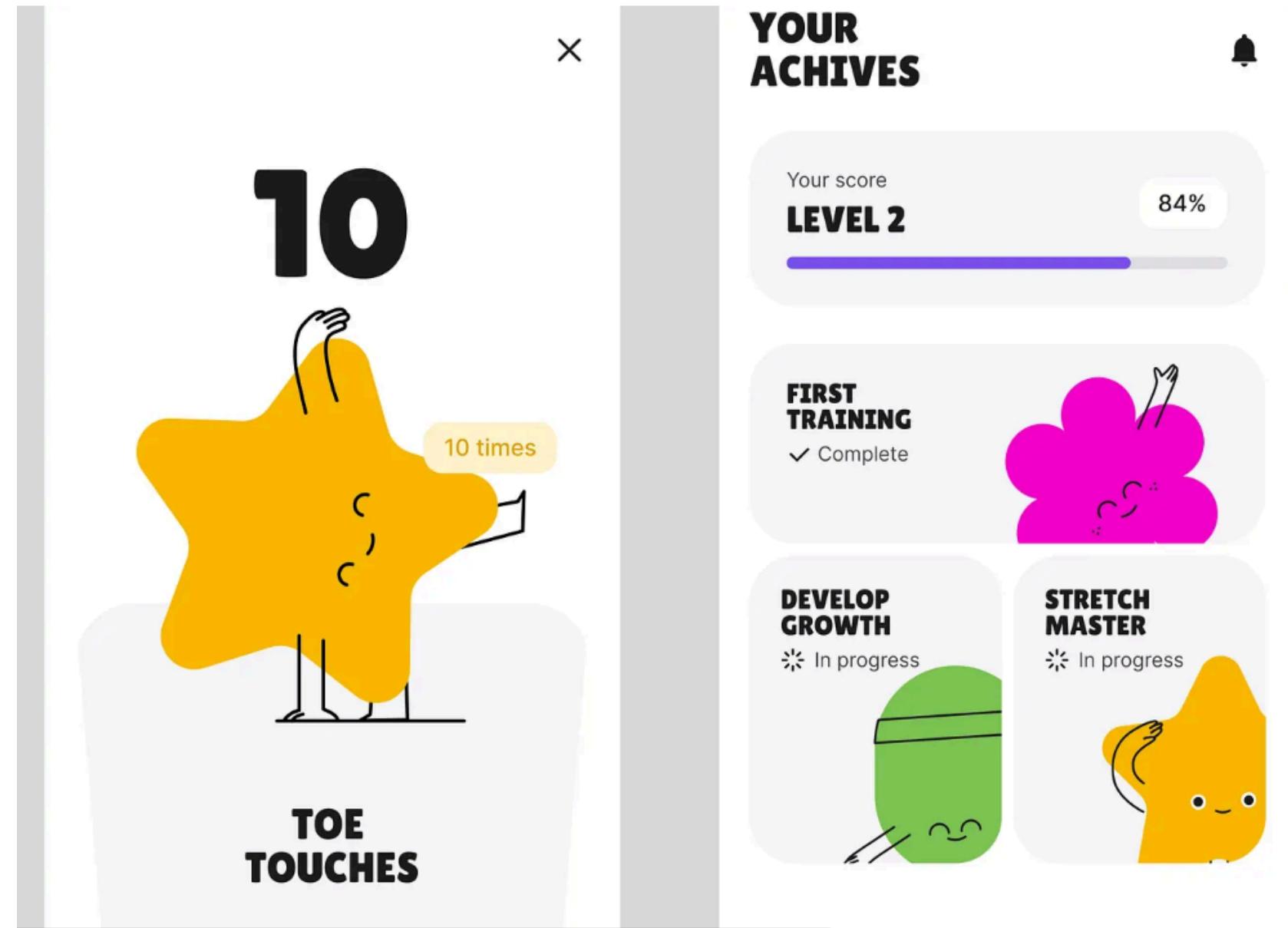
2

1



↳ + Abhishek

Dash Board:



- Emotional Design:
 - Why? to motivate all students, clean and to no clutter.

Class Directory

- ▶ In some ways this feature is just the read/reporting aspect of the user manager. Given the heavy domain specific part of this we might consider using some ORM or Database reflection mechanism so this can be built quickly as opposed to hard code. This would allow us to change things more easily over time.

- Prof(s)

- Name, Pronunciation, Pronouns
 - Photo
 - Contact Information - class / group chat, outside socials, phone
 - Availability - generally and specifically

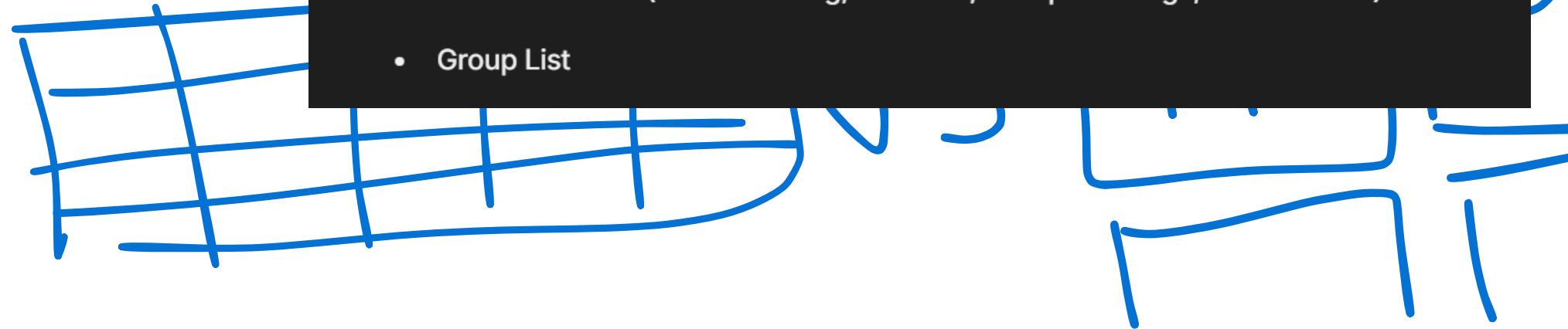
- TAs

- Name, Pronunciation, Pronouns
 - Photo
 - Contact Information - class / group chat, outside socials, phone
 - Availability - generally and specifically

- Activity (Punch card style with pull down)

- Attendance (Class Meeting, Lectures, Group Meetings, Office Hours)
 - Group List

Like a clean spreadsheet



Could be avatar
or their picture

card for each user

- Students
 - Name, Pronunciation, Pronouns
 - Leader or Not (other roles)
 - Photo (or Avatar)
 - Contact Information - class / group chat, outside socials, phone
 - Availability - generally and specifically
 - Activity (Punch card style with a pull down)
 - Attendance (Lectures, Meetings, Office Hours)
 - Repo (Issues, Checkins, etc.)
 - Communications

RISK: Each team is about 10 per team and there can be more than 7 teams. thus spacing will be a problem
Pivot to: Perhaps just keeping the right side of the blue picture and remove the rest of the background image

Work Journal

Work Journal / Stand-Up Tool

- Be able to write down what you have done
 - Express emotional sentiment about themselves, the team, the course
 - Reach out to the team leader, TA or Prof
 - Perform these activities easily and often
 - Go into the repo directly
 - Automated bot in email or chat (need to evaluate how that is done)

MOTIVATION
CONNECT ?

Inspo:

- Canva Notes
 - Google Doc Tabs
 - Notion Doc

FORM or BLANK DOC

The worst enemy to creativity is
self-doubt.

Ex. 2020 1st place essay

Created

January 7, 2021 4:53 PM

Tag

Empty

+ Add a property

-  Search actions
- Actions**
-  Magic Write™
-  Design
-  Scrollable design
- H1 Heading Ctrl+Alt+1

WORK JOURNAL (reflection)

Q

D week 4
D week 5

~~DRAFT~~

~~FORUM~~

ABOUT YOU
ABOUT TEAM(MATES)
ABOUT COURSE

@TA
@PROF

RISK: The organizing, if by week or by day, shoul dit be a claendar to show how many journal entries have been made by user?

Pivot to: Stick with weeks

- Document tabs +
-  Meeting Notes
-  Starting Pitch Check-In
-  Pairs Notes :
 -  Template 1
-  week 5
 -  Abhishek & Gabrielle
 -  Andrew & Tongfei

Oct 31, 2025

General Front €

- <https://e>
 - <https://ie>
 - <https://th>
 - <https://d>
 - <https://js>

Oct 28, 2025

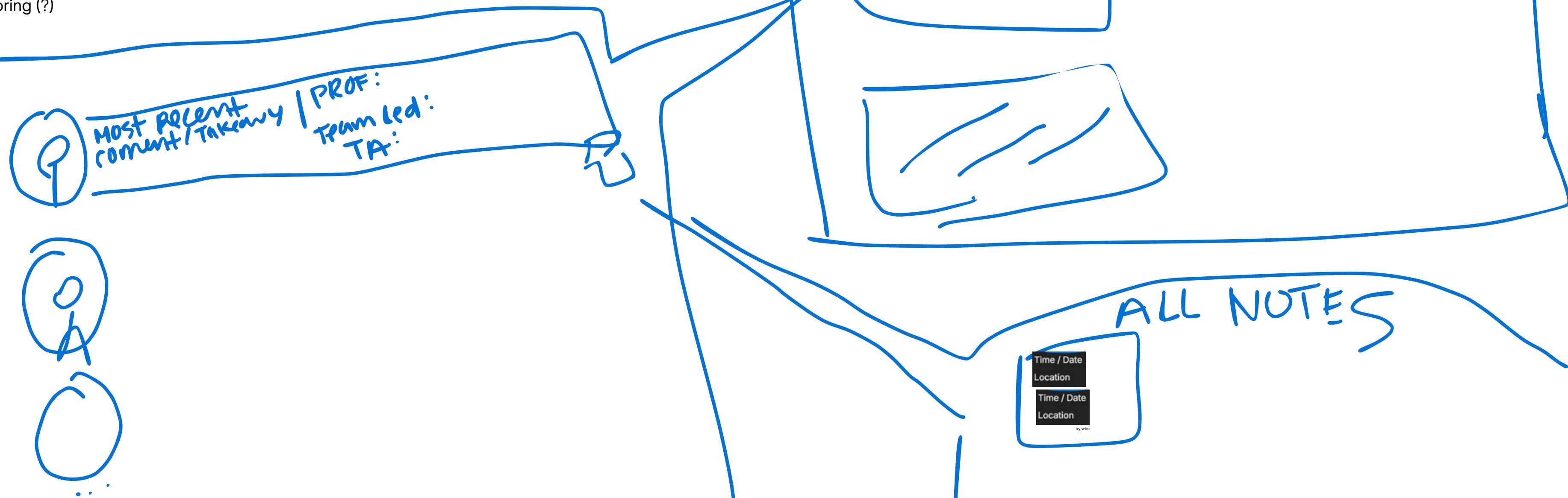
Questions for F

- Can you

Evaluation Journal

- For Prof, TAs, and team leaders to write notes about groups and individuals
- Time / Date
- Location
- Who (Group or Person)
- Sentiment Score
- Notes

It would be cool if the ordering of the student reflects those who might need more help or need to be contacted more. This can go hand in hand with the weekly scoring (?)





Evaluation Rubric Tool

- A system that takes the score system and tracks it over time and allows both teams and TAs to see where people stand. Hopefully, this makes the requirements a bit more transparent and allows people to focus more on the quality issues both in student code efforts as well as for TAs doing the work

Inspo:

- Kahoot

- CSE210 WI24 Prof. Coblenz

Independence and Leadership

To what extent does the team member contribute either leadership or exercise independent judgment?

5 points, Leader and significant contributor

Led others in choosing specific direction for the team; exercised independent judgment in completing own tasks.

4 points, Significant contributor

Proposed appropriate tasks or took individual initiative

3 points, Moderate contributor

Completed assigned tasks

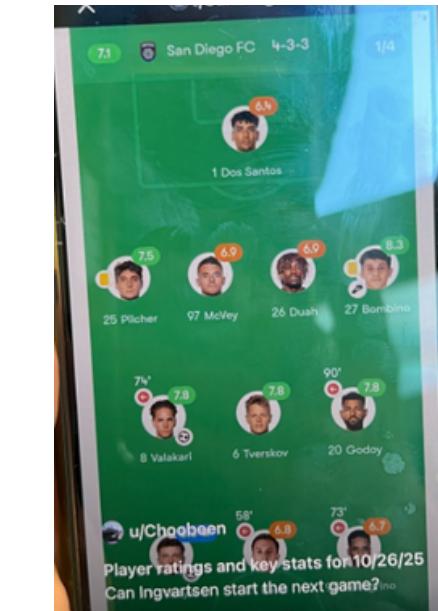
2 points, Needed micromanagement

Did not exercise sufficient independent judgment, considering the team member's level of expertise with the technology they were using.

0 points, No evidence

No evidence of independent contributions

	Classic Mode	Accuracy Mode
Scoring criteria	Players receive points based on the speed and correctness of their answers	Players receive points based solely on the correctness of their answers. Speed does not influence scoring.
Point distribution	Points decrease as the timer counts down. The faster the correct response, the higher the points.	Each correct answer receives 1 point. Partially correct answers (in multi-select questions) and almost correct answers (in slider questions) are also considered correct.
Double points	Double points can be awarded for specific questions.	Double points are not awarded.
No points	The "no points" option is respected when selected from the points multiplier dropdown.	The "no points" option is respected when selected from the points multiplier dropdown.
Podium display	Shows the top participants with numerical scores.	Streamlined podium display showing "x out of y" text based on correct answers. In case of ties, participants' names cross-fade.



- BIG RISK:

- seeing how everyone else ranks might not create a trusting environment.
- Perhaps ones on ranking can be visible to themselves, and only visible by team lead, and staff.

- Comment:

- It would be better if the new score is shared at the start of the week rather than end of the week.
- Also a rating for the team as a whole.

Technical contributions

To what extent does the team member drive the project forward by contributing to artifacts?

5 points, Significant contributor

Made significant technical contributions considering the team member's current level of expertise, or display significant progress in learning new technologies.

3 points, Moderate contributor

Moderately significant technical contributions Made some technical contributions (wrote code, wrote specifications/documentation, reviewed code, etc.) but the level of contribution seems low considering the team member's current level of expertise with the relevant technologies.

0 points, Noncontributor

No evidence of technical contributions.

Weekly Report

DIRECT FEEDBACK NOTES

Teamwork: How effectively does the team member work with the team? *Humble*

5 points, valued team member: Reliable team member who contributes to effective team functioning. Usually meets deadlines; when late, informs team in advance. Participates constructively in group meetings. Considers others' needs when making decisions and suggestions.

js-pokedex-virid.vercel.app

Search your Pokemon

Nº1 Bulbasaur
Poison Grass

Nº2 Ivysaur
Poison Grass

Nº3 Venusaur
Poison Grass

Ivysaur
Nº2
Poison Grass

Pokedex Entry
When the bulb on its back grows large, it appears to lose the ability to stand on its hind legs.

Approaches:

- Double diamond design thinking process
- Parallel Prototyping
- Mini teams for features for Incremental work

Notifications:

**Rabbit Holes: a specific type of risk.
something you get stuck into. depth.
but how much is that feature importnat or possible to do. rabbit hole
prevents you fromt he rest and more importnat features. remeber ur
goal with ur tool.**

**as a team we need to identify rabbit hole.
doesnt have to be froma technical point of view. could be project, team
function.**

User persona inlcude description, their prob, how our tool can help.

**scope: while expalining this is the scope of our project, this is what we
want to deliver, curr open ended. This are the features.**

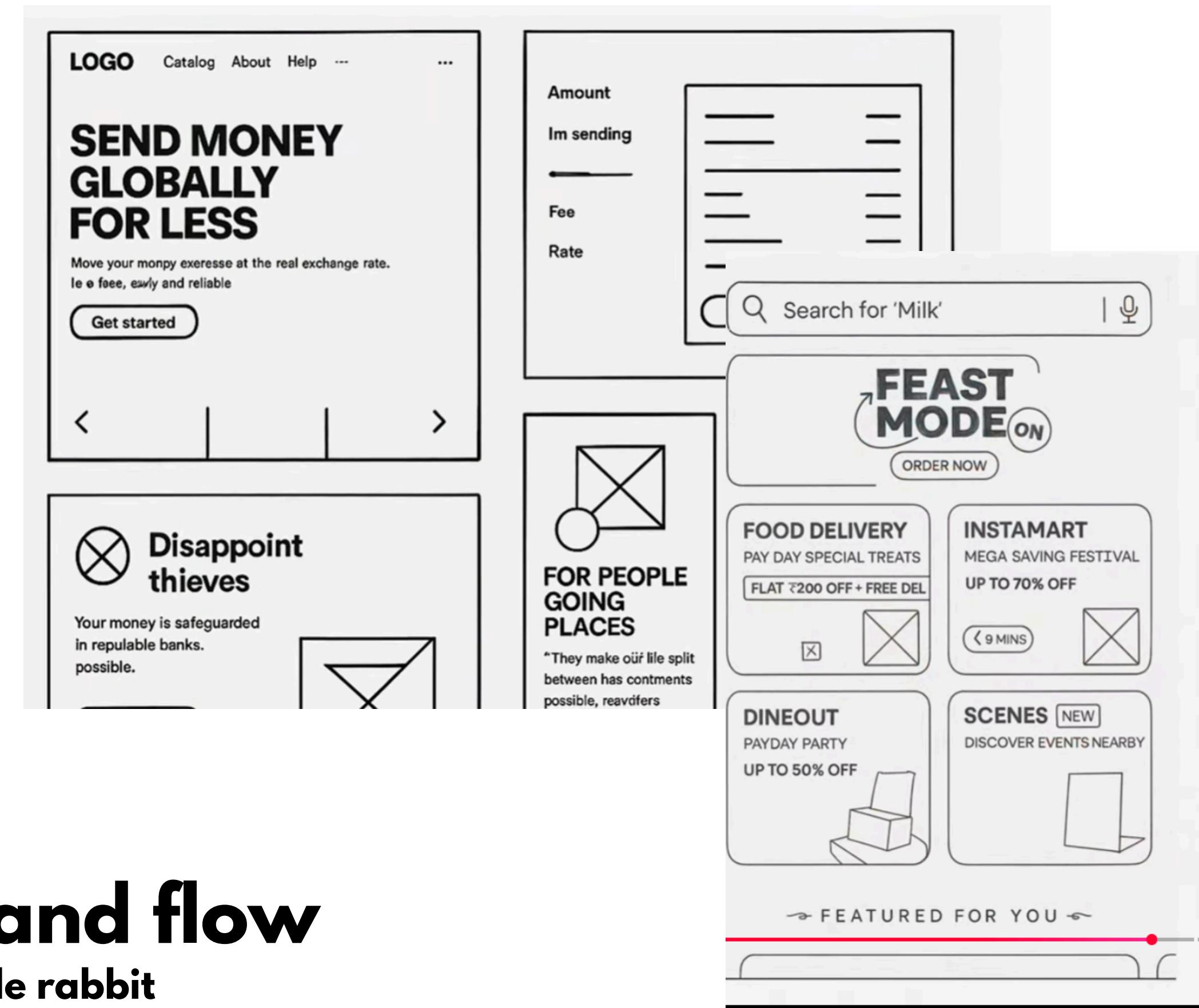
**we can deviate from our pitch but should still follow through for th
emost part.**

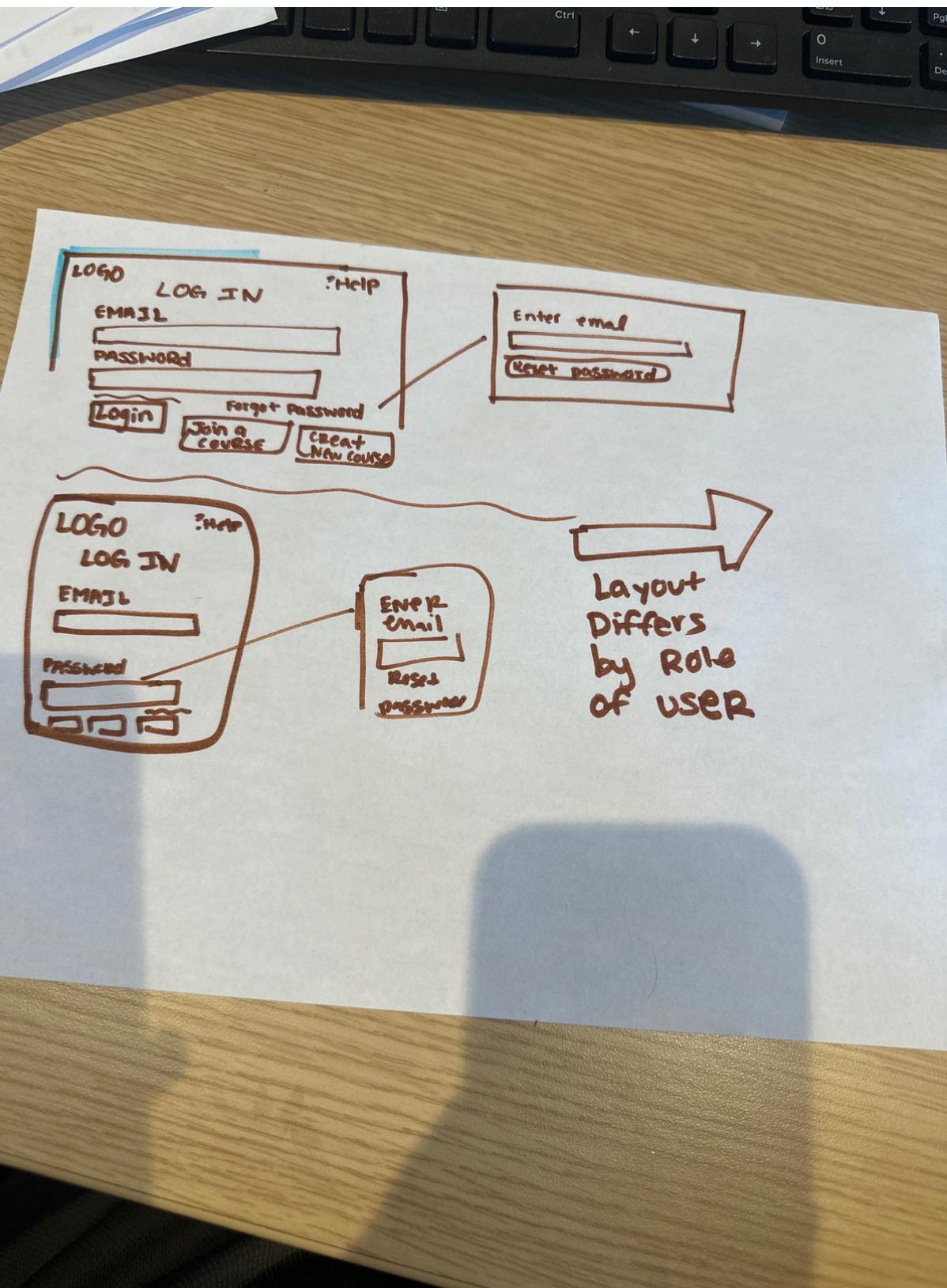
Plan out the big bold boxes so later we get into the details

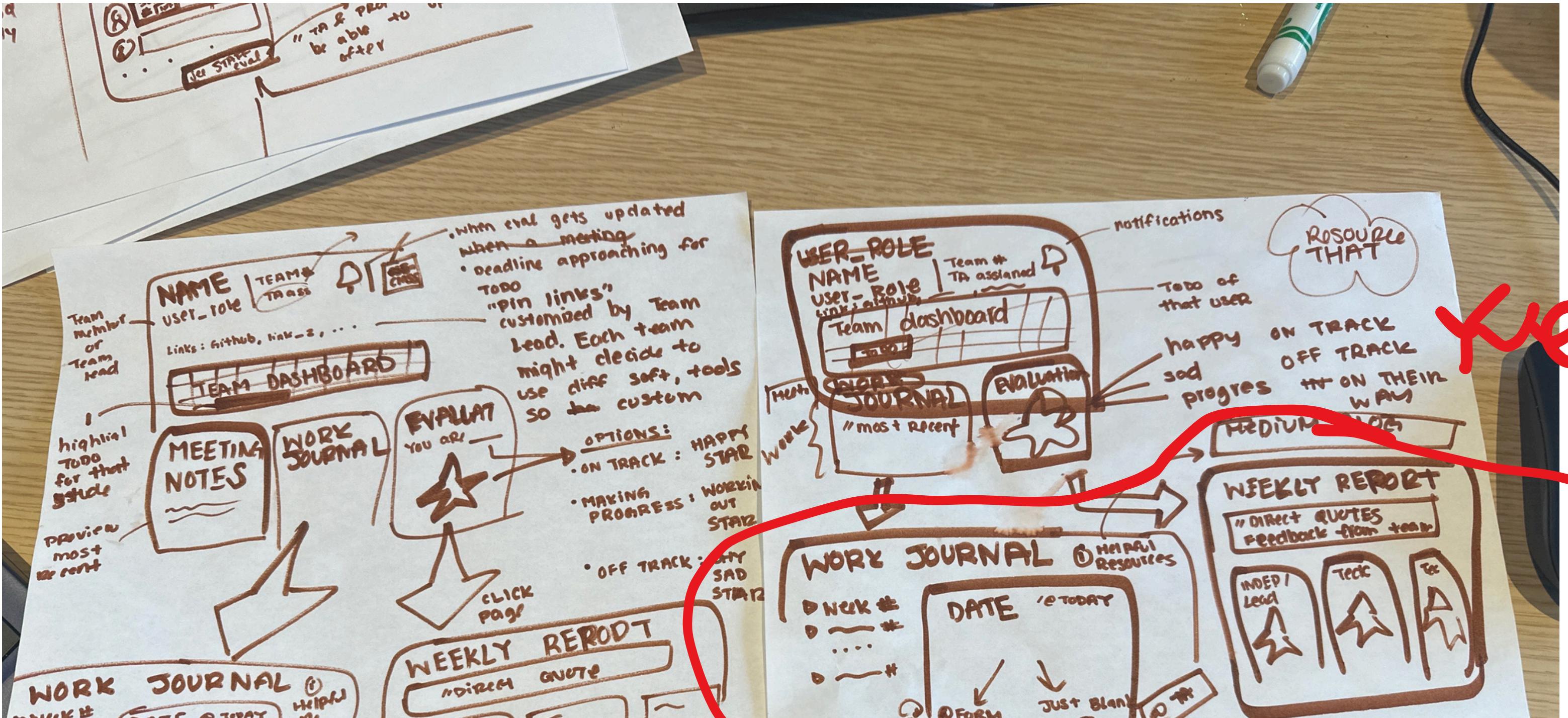
Plan out the big bold boxes so later we get into the details

fUNCTION layout and flow

provide context for why, and include rabbit important for team feedback







Xeji

1st draft

