A4 - Concept Video

Team 2: J*AI*DED

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01

Project Name & Value Proposition

Solution from A2

Our solution will provide students with pre-planned and convenient study group sessions using preferences, schedules, and learning styles

DRUM ROLL PLEASE

Introducing:

Locked in

Effortless, personalized study groups tailored to your schedule, preferences, and learning styles

02
Problem & Solution

Primary User and their problem

Our interviews revealed that many us undergraduate students use collaboration as a study tool for academic success, but often find the formation, scheduling, and planning of such groups quite difficult.

How does Locked in work?

We collect information from students in classes and use AI enhanced tools paired with research on effective collaboration practices to automatically plan recurring study sessions
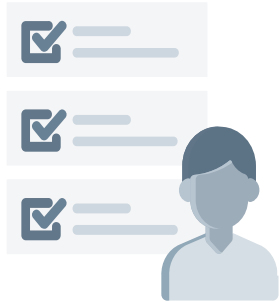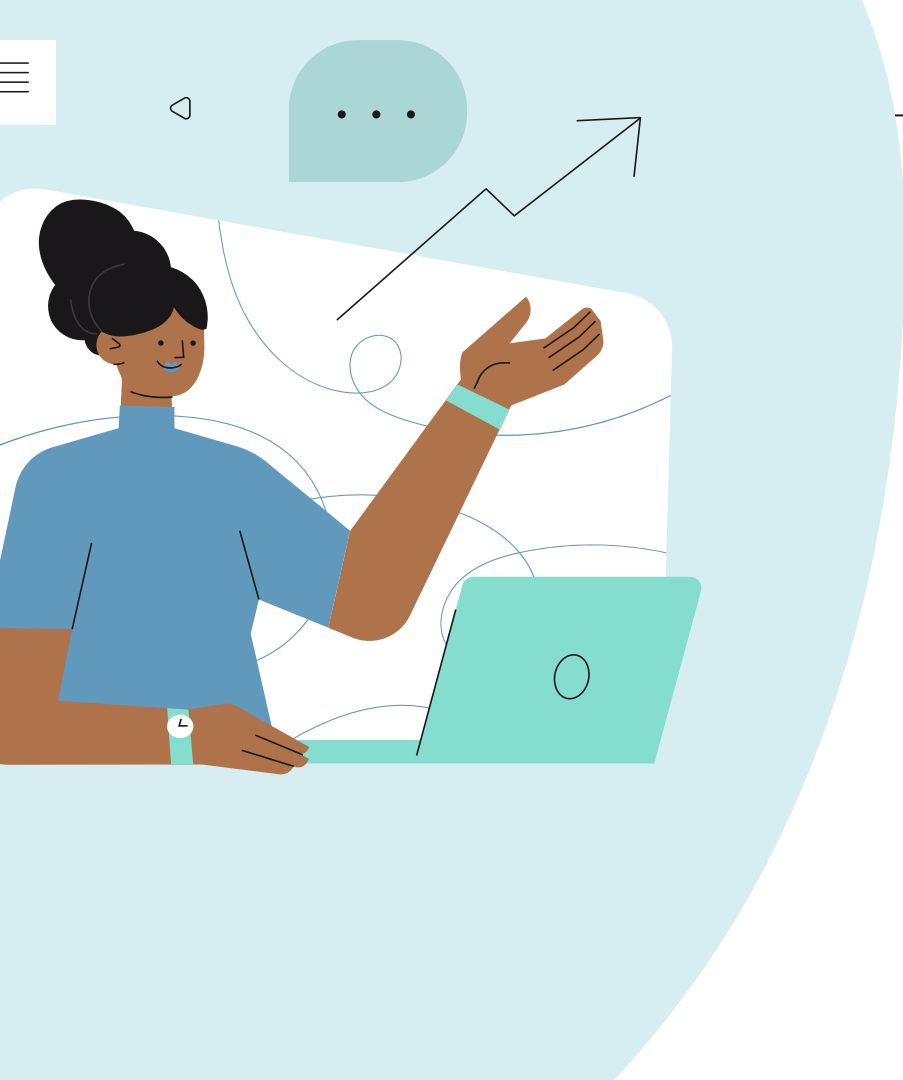
03

Market
Research

Comparison #1

Discord

Mission statement

Discord is about give people the power to create space to find belonging in their lives.

What works from our problem domain?

- Discord allows users to create communities and a sense of belonging
- Flexibility in managing different channels for topics or groups based on what the users want
- Real-time communication for individual or group help via direct messages or in public channels

What doesn't work?

- Potential distractions from other channels, DMs, or groups from the same server. Would have to separate personal from educational to limit distractions
- Difficult to manage large groups or communities if there isn't clear guidelines or moderation
- Often has many channels, it's busy and can be overwhelming
- Free-for all type of environment

Comparison #1

Discord

Mission statement
Discord is about give people the power to create space to find belonging in their lives.

Main Takeaways

- Unlike Discord, which is very general and unspecialized, our solution specifically targets academic collaboration by matching students based on detailed profiles and other academic goals
- Instead of a free-for-all environment, we tailor matches and people that would increase the likelihood of working together with the same goals
- Our solution focuses on continuous partnerships between people and groups

Comparison #2

Marriage Pact

Mission statement: Matches students looking for romantic/platonic partners within the same university/ college based on a personality questionnaire filled individually.

What works from our problem domain?

- Marriage Pact allows users to match users with similar values, interests and personalities, increasing the chance they will get along
- Questionnaire format allows a personalized, tailored experience
- Artificial-Intelligence for optimal pairings of student profiles
- Users motivated by the possibility of matching with new, promising people as well as already existing crushes
- Gamified, multi-step match announcement created a big hype on campus

What doesn't work?

- Matches can be heavily influenced by background or protected traits
- Difficult to ensure students will follow up on the pairing- a high percentage of pairs hesitate to reach out
- No encouragement to make the first move and no platform that supports interaction between pairs- matches need to stalk and DM on another
- All-around feelings of awkwardness- especially if the match is a friend/ someone disliked

MARRIAGE PACT

Comparison #2

Marriage Pact

Mission statement: Matches students looking for romantic/platonic partners within the same university/ college based on a personality questionnaire filled individually.

Main Takeaways 🚀

- Unlike Marriage Pact, which is geared towards matching couples based on romantic preferences and personality, our solutions targets more practical and less personal aspects that are specific to academic collaboration
- Our solution provides a platform where study pairs are connected, and put into contact as soon as the matches become available, removing the hesitancy of reaching out or the anxiety of being the first one to make a move
- Our solution minimizes the feelings of awkwardness by focusing on the tasks and academic achievement, aiming for continuous collaboration
- Unlike Marriage Pact, we give our users the option to state those they would not like to be paired with

Comparison #3

Slack

Mission statement

Slack's goal is to make work and collaboration simpler, more productive, and more connected through intuitive communication tools

What works from our problem domain?

What doesn't work?

- Slack allows communication between students in a shared workspace
- Slack offers peer-to-peer interaction through the creation of group chats and channels
- The platform is efficient, as messages are sent in real time and recipients are immediately notified

- Slack's workspace easily gets overcrowded with channels, making it difficult to locate proper channels.
- Depending on the classes that use Slack, the channels are not named to be class-specific, causing confusion in channel organization
- There is no way to know about other classmates, such as their study schedules or habits, making it difficult to meet other study partners

Comparison #3

Slack

Mission statement

Slack's goal is to make work and collaboration simpler, more productive, and more connected through intuitive communication tools

Main Takeaways

- Unlike Slack, which does not offer any matching process between students based on availability or habits, our solution allows users to create a personalized profile and the matching of similar profiles
- Our platform will not use channels, which causes overcrowding. Instead, we will have a direct message feature for individuals and groups as well as a centralized space to announce study sessions.
- Our solution focuses on connecting students optimally and efficiently, and also maintaining those connections.

Comparison #4

Ed Discussion

Mission statement

Ed Discussion helps scale class communication by making questions visible to everyone

What works from our problem domain?

- It is quick and easy for students to get answers to specific questions they have
- Anonymity decrease the activation effort to reach out for help
- Having professors control access to the group ensures that no bad actors can enter the community

What doesn't work?

- Students cannot get help in a class if they cannot formulate a question to ask
- There is no way for students to connect with each other outside of the platform
- Getting study help is a one time thing, process must be repeated for each request

Comparison #4

Ed Discussion

Mission statement

Ed Discussion helps scale class communication by making questions visible to everyone

Main Takeaways

- Compared to Edstem, where students can connect with teachers and TAs in the class for one-time questions, our solution is tailored to connecting students with each other to learn together over multiple study sessions.
- We need a way to verify class enrollment within our study groups to prevent infiltration by bad actors
- It would be game changing if students could receive more involved study help without high user activation energy

Competitor comparison matrix

04

Values in Design

Stakeholders and Ethical Implications

Direct Stakeholders

- Undergraduate students
- Educational Institutions
- Teachers/Professors

Indirect Stakeholders

- Parents
- TA's or other staff
- Academic Advisors
- Tutors

Ethical Implications - Tarot Cards of Tech

- **The Big Bad Wolf**
  - Implication: **academic exploitation**. For example, one person in a study group may **rely** on the other members to do a majority of the work. This could lead to an **imbalance of learning** and **academic integrity issues**, such as plagiarism
  - Reflection: we could have a **peer review system**, where a feedback mechanism can help detect unfair behavior early on
- **The Scandal**
  - Implication: **algorithmic bias**. Matching could be biased against specific groups of people, have to be careful to test and see how matching **behaves** on user inputs
  - Reflection: be **transparent** on how the matching algorithm would work, what types of things are **considered**, but keep **weights secret** so people can't game the system

05

Tasks

simple

the user can **discover** public open study sessions for a class

moderate

the user can **create** a study profile and get **matched** with recurring partners/study groups
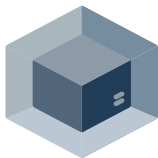
complex

the user can **plan** and **host** public/private study sessions for a class or group
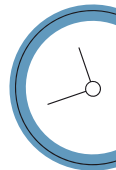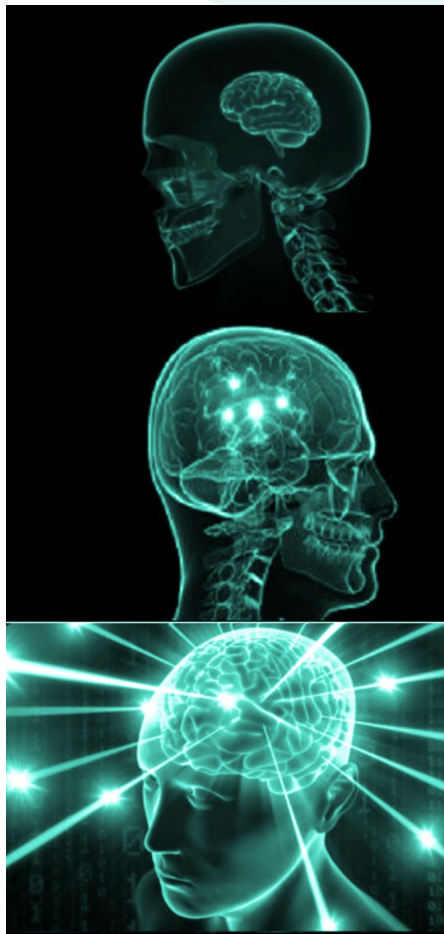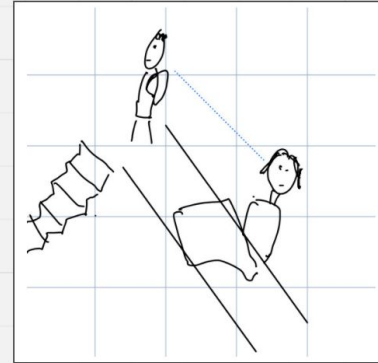
06

Storyboarding

[mood change]

⟶ discouraged
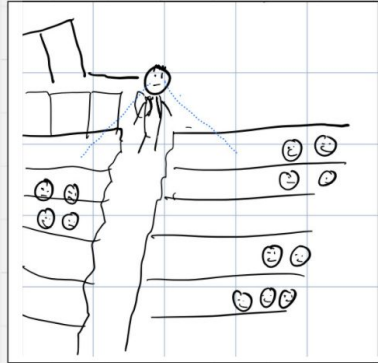
1	2	3
A student John enters class, looks around, and sits alone	Professor says, "PSET1 is due next week, collaboration is encouraged, and you can submit in groups of up to 3"	John looks anxiously around trying to find a partner, tries to say something to the person on the right but they walk away
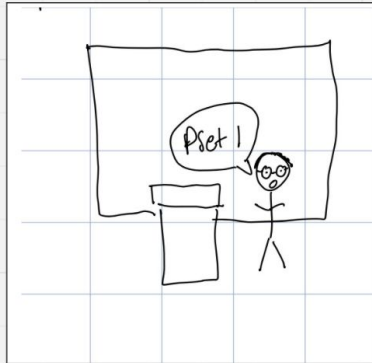
[setting]

classroom ⟶ lack of community

[setting]
studying alone, working on PSET
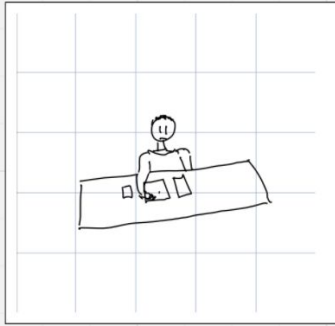
4	5	6	7
The student works on PSET1 alone, anxious that they don't have the correct answers	John falls asleep frustrated after working for a long time	John wakes up to a notification on their phone, it's a failing grade for a previous assignment	John is in despair!
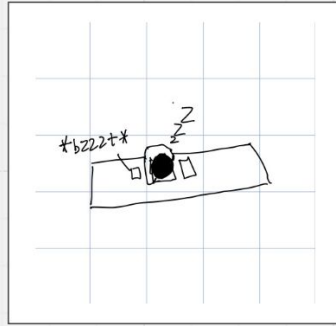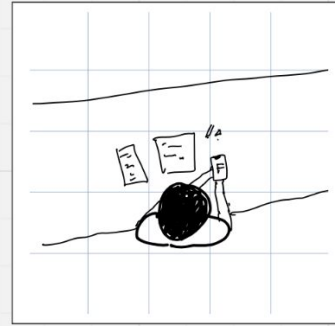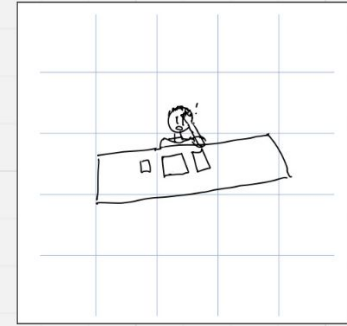
[mood change]
discouraged ⟶ isolated + despair
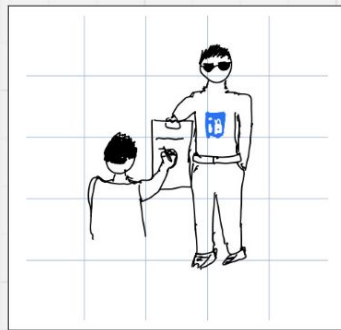
[task 1]
discover public open study
sessions for a class

[task 2]
create a study profile and get matched
with a recurring study group
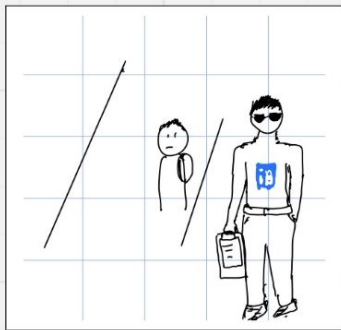
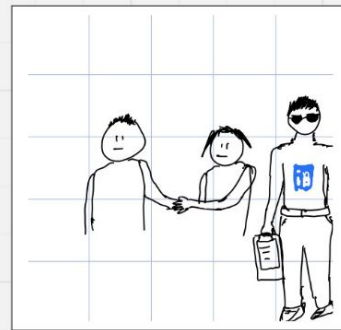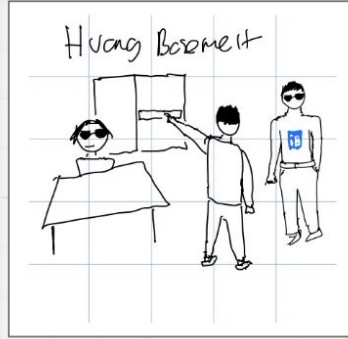| 8	9	10	11
As John walks home from class, LockedIn appears and gives the student a form to fill out	John fills out the form on the clipboard and gives back the paper to LockedIn, selecting a study time	In class, a different student Lu also fills out the form with the same study time as John	LockedIn makes an evaluation and connects John and Lu together, they form a partnership
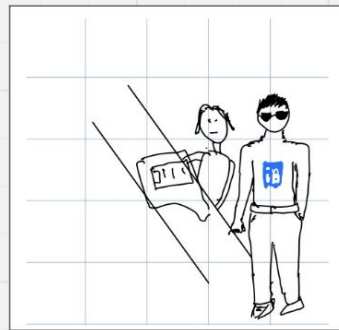
[mood change]

despair ⟶ partnership

[mood change]

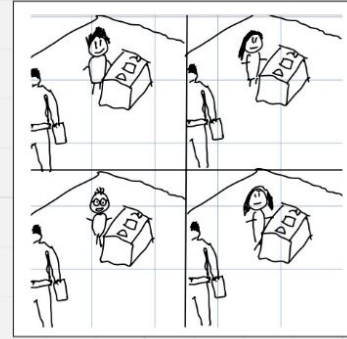partnership ⟶ commendatory
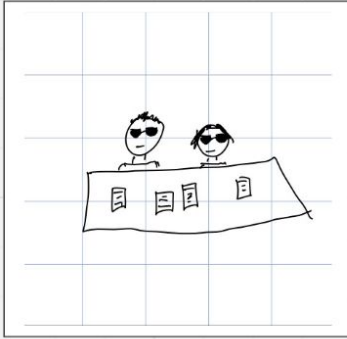
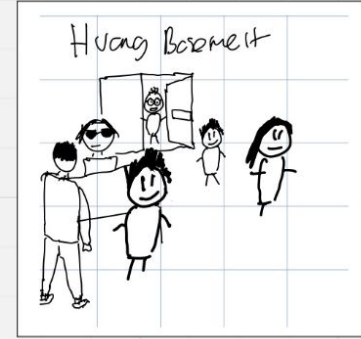| 12	13	14	15
The students are now locked in! They start to study together	John and Lu decide to make a public study session, they give an announcement to LockedIn to deliver	LockedIn brings the announcement to other students with similar goals	A group of students comes to Huang Basement to join John and Lu's study session, ready to lock in

[task 3]
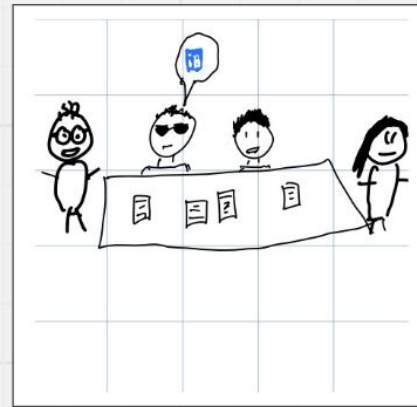plan and host the public open
study sessions for a class

[resolution]
academic success & lasting partnerships
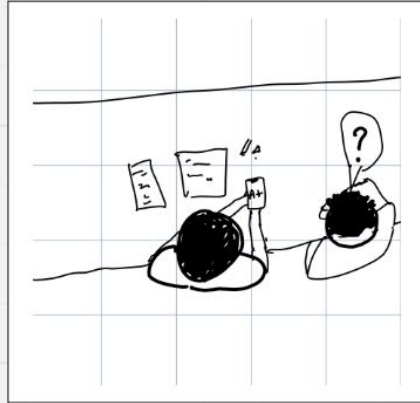
16

John and Lu receive a notification on their
previous assignment, they got an A+!

17

Other students come to ask John and Lu how
they have been doing so good in class, they say,
"You got to be LockedIn". The logo shows and
credits roll

Concept Video

07

APPENDIX