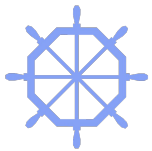
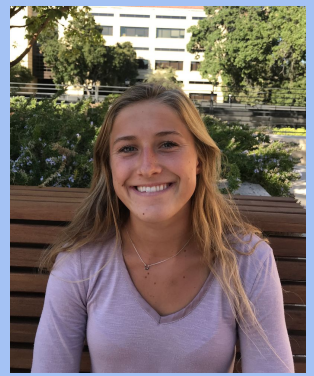
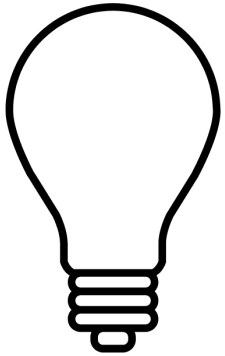
Low-fi Prototyping & Pilot Usability Testing



Hello!

We are HELM





Lessonly

The Online Teachers' Lounge

Roadmap

Value Proposition
Selected Interface
Low-fi Prototype
Tasks
Experimental Method
Experiment Results

Roadmap

Value Proposition

Selected Interface

Low-fi Prototype

Tasks

Experimental Method

Experiment Results

Value Proposition

Crowdsourced Lesson Planning and Organization

Roadmap

Value Proposition

Selected Interface

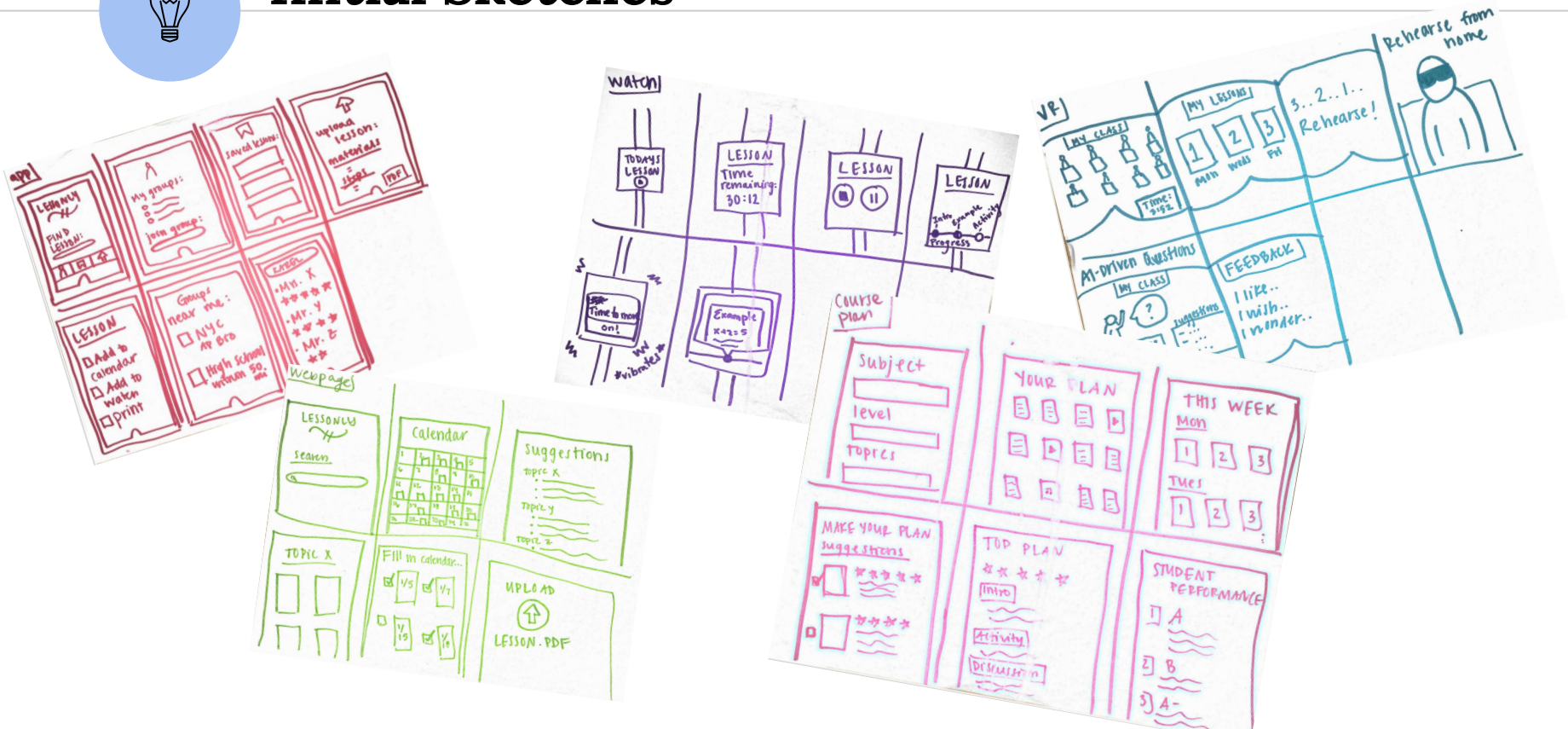
Low-fi Prototype

Tasks

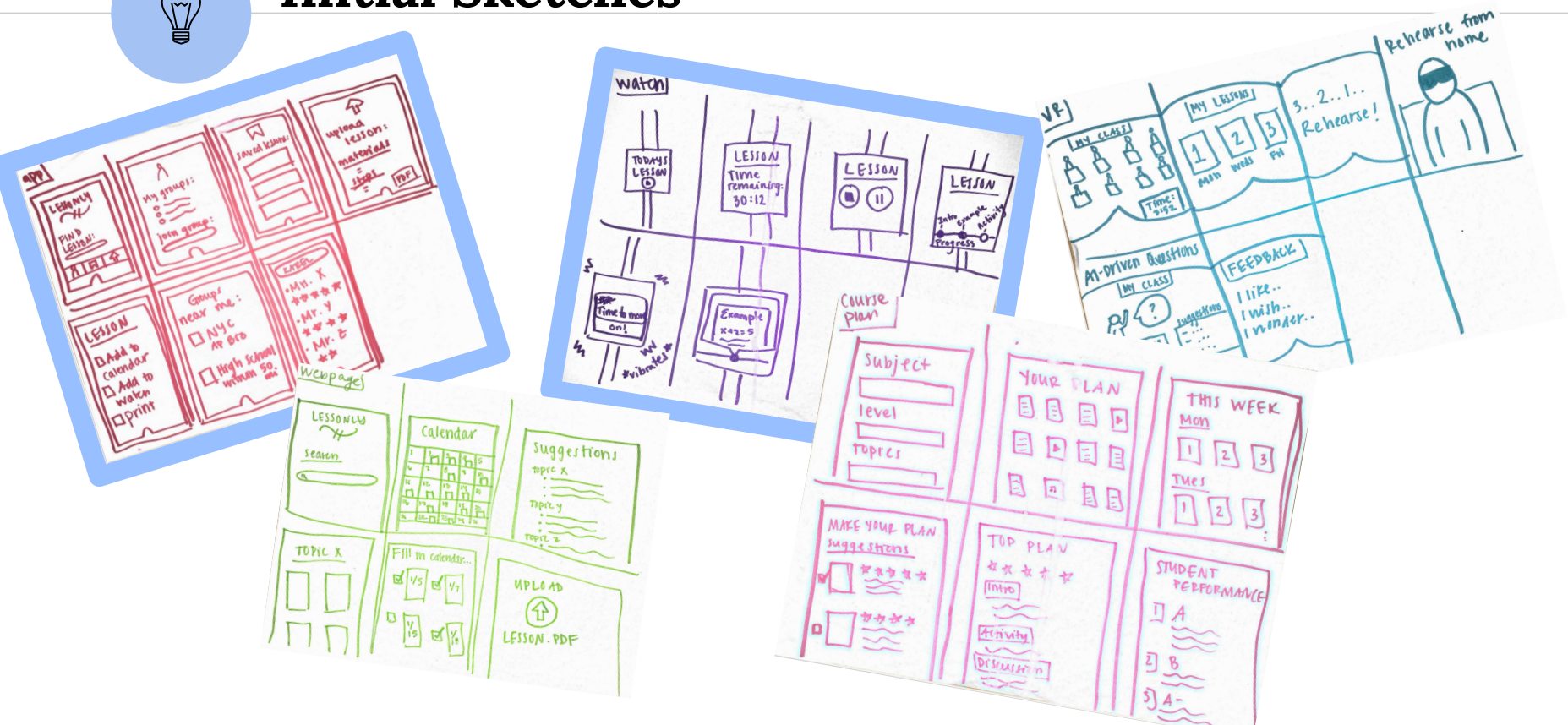
Experimental Method

Experiment Results

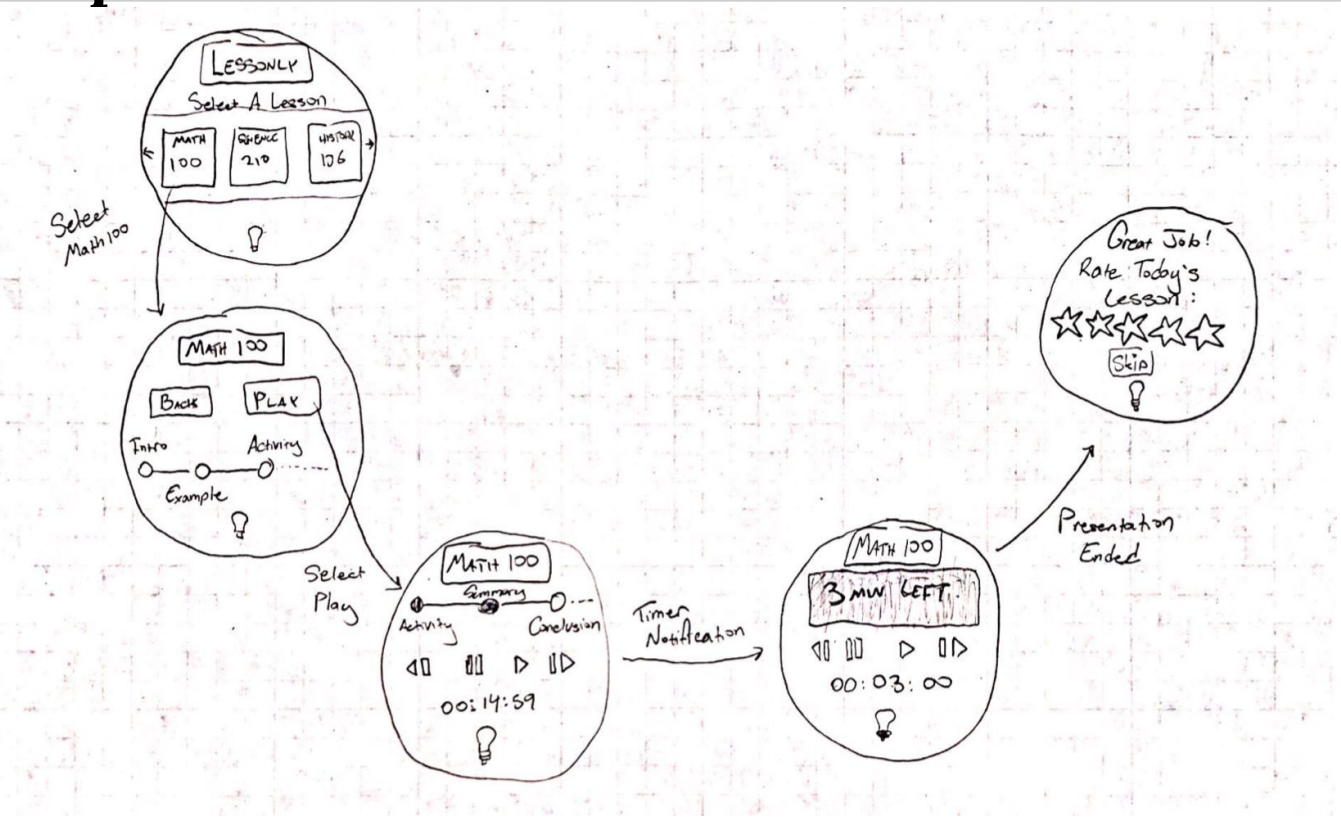
Initial Sketches



Initial Sketches



Top Two


LESSONLY
Select A Lesson
MATH 100
SCIENCE 210
HISTORY 106
Select Math 100
MATH 100
BACK
PLAY
Intro
Activity
Example
Select Play
MATH 100
Summary
Activity
Conclusion
00:14:59
Timer Notification
MATH 100
3 MIN LEFT
00:03:00
Presentation Ended
Great Job!
Rate Today's Lesson:
SKIP

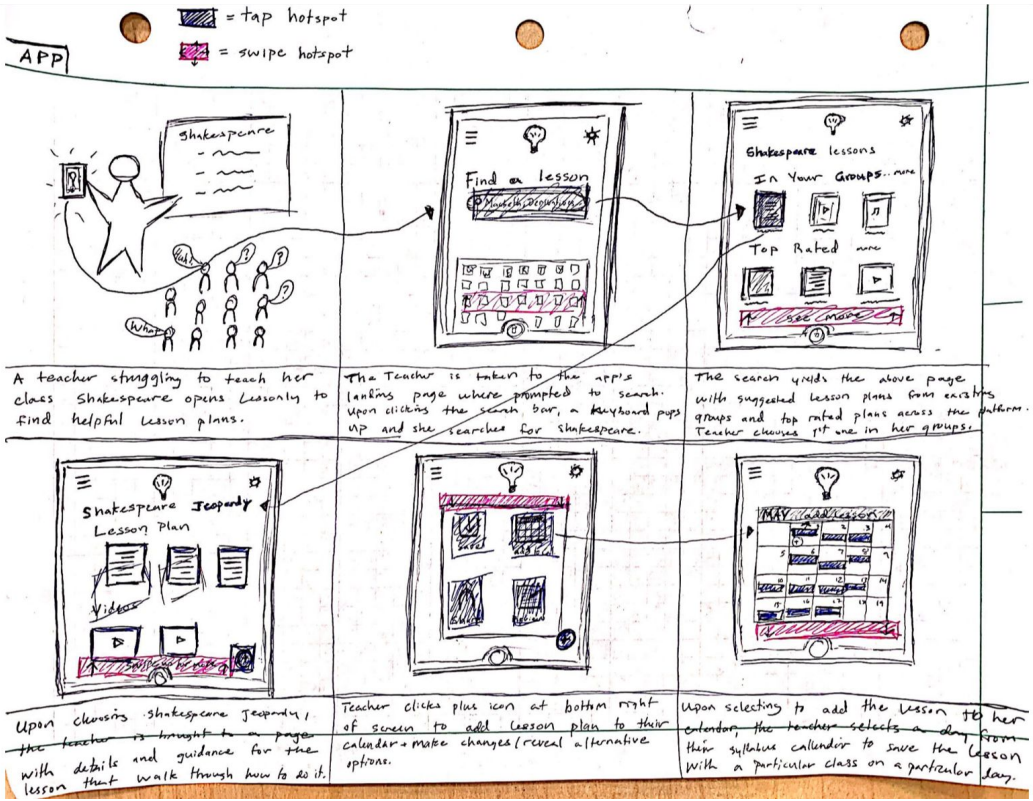
[Pros]

- Many features
- Simple interface
- User friendly
- Seamless lifestyle integration
- Offline potential

[Cons]

- Functions like a feature
- Less versatile
- Small screen
- Assistant, not planner

Top Two


= tap hotspot
= swipe hotspot
APP
Shakespeare
Find a lesson
Shakespeare lessons
In Your Groups... more
Top Rated more
A teacher struggling to teach her class Shakespeare opens Lessonly to find helpful lesson plans.
The Teacher is taken to the app's landing page where prompted to search. Upon clicking the search bar, a keyboard pops up and she searches for Shakespeare.
The search yields the above page with suggested lesson plans from existing groups and top rated plans across the platform. Teacher chooses 1 of one in her groups.
Shakespeare Jeopardy
Lesson Plan
Video
Upon choosing Shakespeare Jeopardy, the teacher is brought to a page with details and guidance for the lesson that walk through how to do it.
Teacher clicks plus icon at bottom right of screen to add lesson plan to their calendar + make changes (reveal alternative options.
Upon selecting to add the lesson to her calendar, the teacher selects a day from their syllabus calendar to save the lesson with a particular class on a particular day.

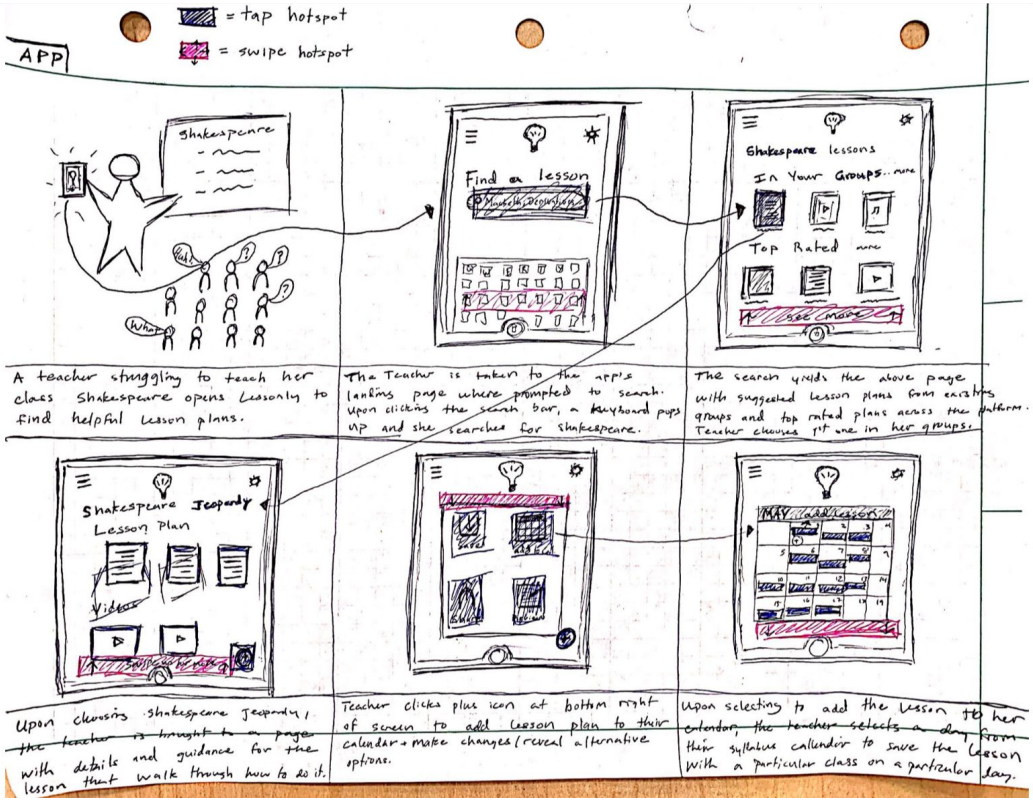
[Pros]

- Many features
- Integrations
- Social/community
- Storing + organizing

[Cons]

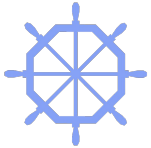
- Teachers + apps
- Features = overwhelming
- Roaming/data
- Lesson scanning can be frustrating

Selected Interface



Rationale

- High Functionality
- User Friendly



Roadmap

Value Proposition
Selected Interface
Low-fi Prototype
Tasks
Experimental Method
Experiment Results

Low-fi Prototyping

Roadmap

Value Proposition

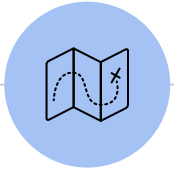
Selected Interface

Low-fi Prototype

Tasks

Experimental Method

Experiment Results



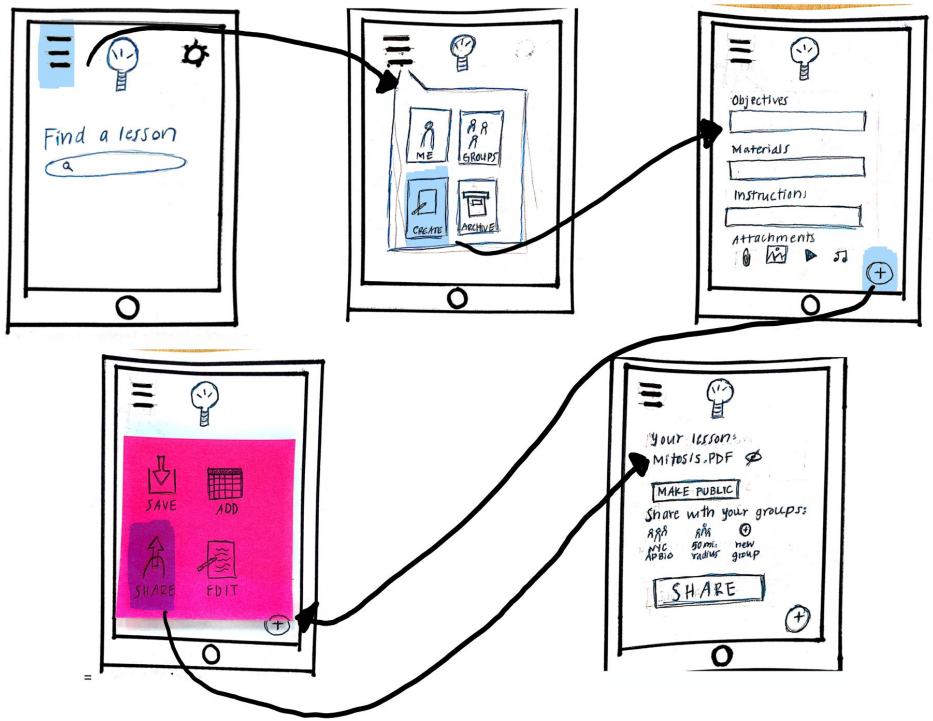
Our Tasks

1) **Keep a record** of an effective lesson plan

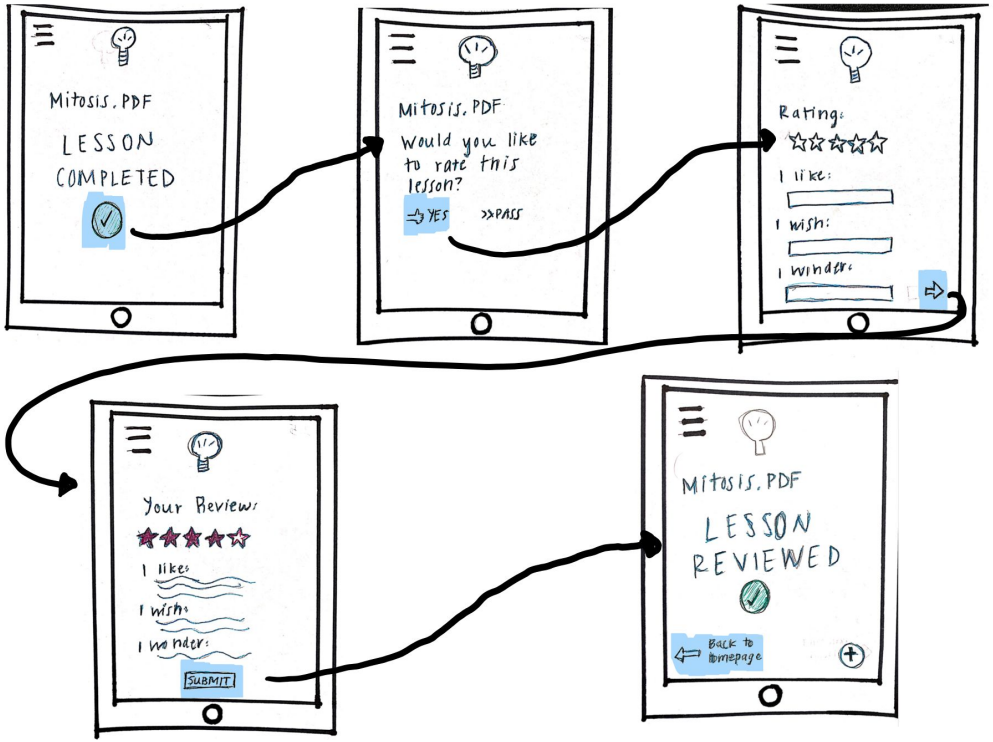
2) **Give feedback** to others on a lesson plans

3) **Find an excellent lesson plan** on short notice

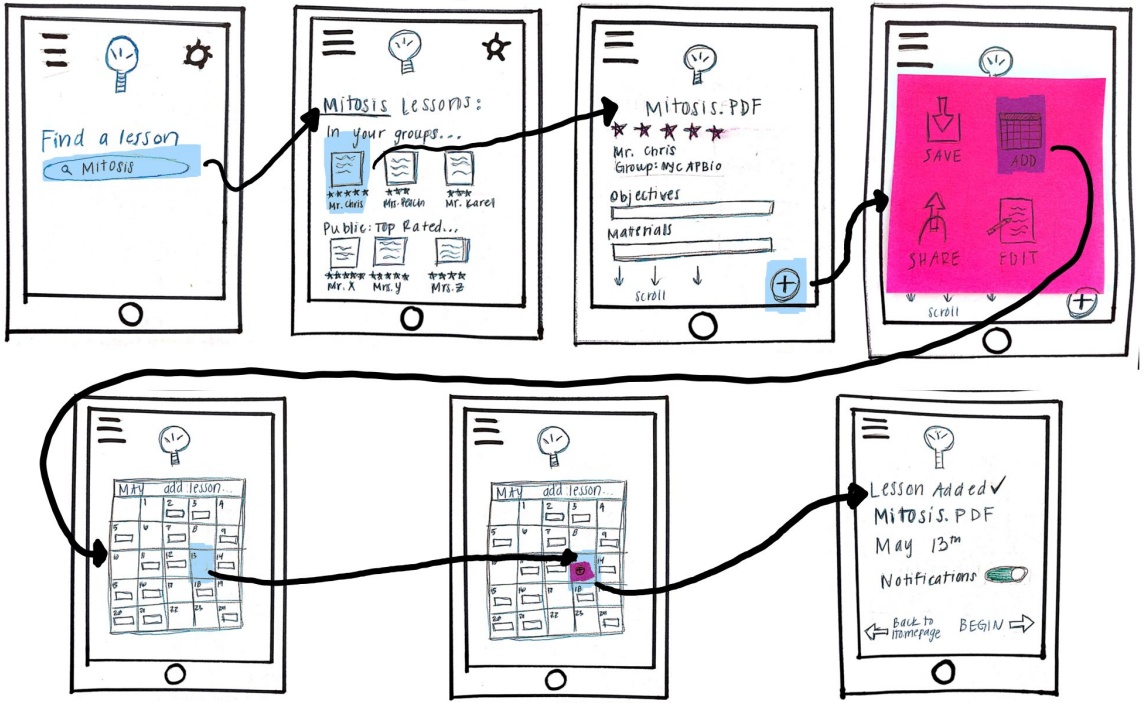
Simple - Create a lesson



Moderate - Give feedback



Complex - Find a lesson



Roadmap

Value Proposition
Selected Interface
Low-fi Prototype
Tasks
Experimental Method
Experiment Results

Experimental Method

Roles

2 greeters/facilitators

1 computer

1 observer/notetaker

Procedure

Introductions

Task performance

Feedback → Q&A

Measurements

Time spent on tasks

Mistakes made

Confidence

4 point severity scale

Participants - 3 T's

Teacher	Tutor	TA
High school	Grammar school	Stanford University
Large Classes	One-on-One	Small groups
Subject specialty	General HW help	CS lessons + help

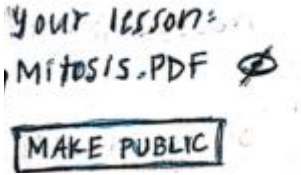
Roadmap

Value Proposition
Selected Interface
Low-fi Prototype
Tasks
Experimental Method
Experiment Results

Experiment #1 - Create

"Add" menu is intuitive and useful

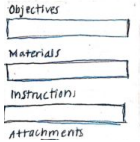
Appreciative of ability to control privacy/share selectively



Prominent share button = great

Confused on which icon to pick on landing page

"Objective" section unclear



Public setting caused initial confusion

Experiment #2 - Feedback

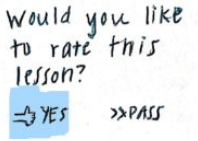
Like seeing full summative report

Easy to submit with arrow icons

Overall, icons were a hit and intuitive

Check icon was persistent source of confusion

What about not wanting to rate lesson?



"I wonder" box = unintuitive

Experiment #3 - Find

Star rating system was popular

Once understood, calendar option was a hit

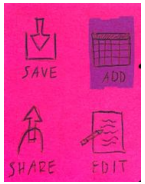
Groups feel safe/effective

Uncertainty with no visible keyboard

Unsure how to submit search

Teachers use first names

Add to calendar initially unintuitive



Suggested UI Changes

1) **Landing page** needs additional direction to lead user to search bar/menu

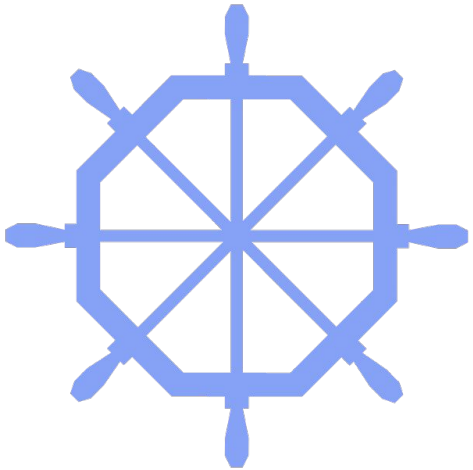
2) **Prioritize groups**, don't default to public

3) **Add descriptions** for a few of the progressive icons

Summary

[Extensive sketching → **app** interface]
[Systematically **test** 3 participants]

→ Overall, participants enjoyed and understood
→ UI needs **direction**, **transparency**, **intuitive iconography**



Helm

design collective