

**Developing the
Design:**
Lo-fi Prototype
EduConnect
*Presented by Ikechi
Akujobi*

Introduction

Overview

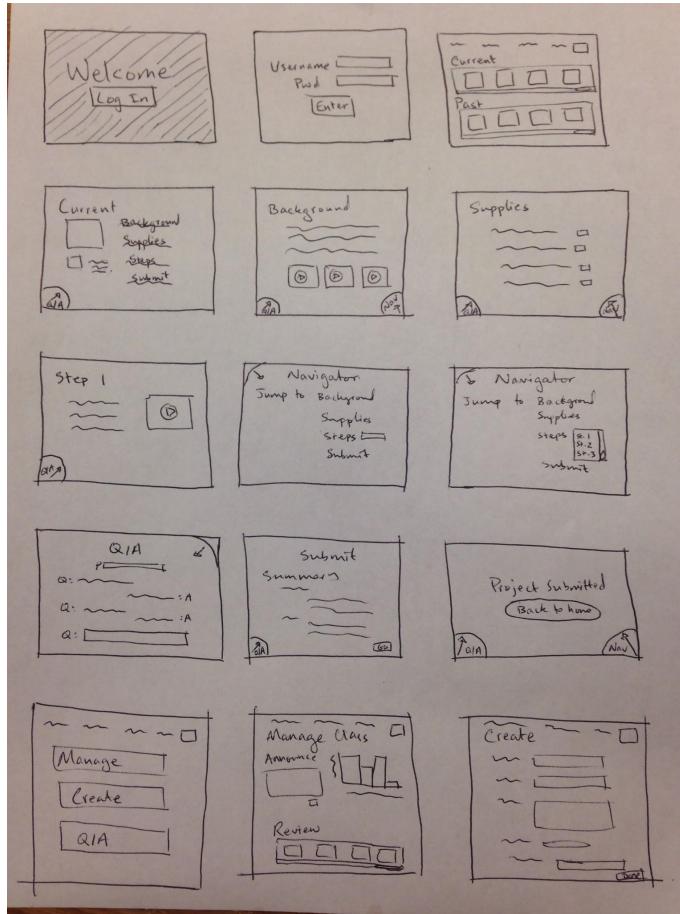
- Mission statement
- Chosen interface
- Lo-fi prototype and three tasks
- User testing
- Changes to Make

Our mission is to *bring painless class projects to classrooms everywhere* by creating a virtual platform where teachers can easily create and assign projects, and students can easily complete and submit them.

iPad Interface

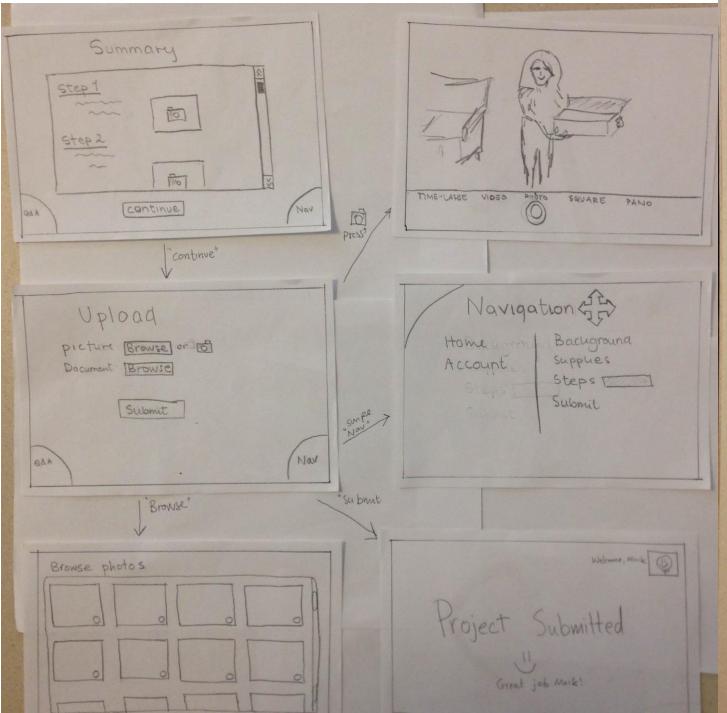
Pros:

- Mobility
- Simplicity
- Touch interface
- Screen space
- Communication w/ apps

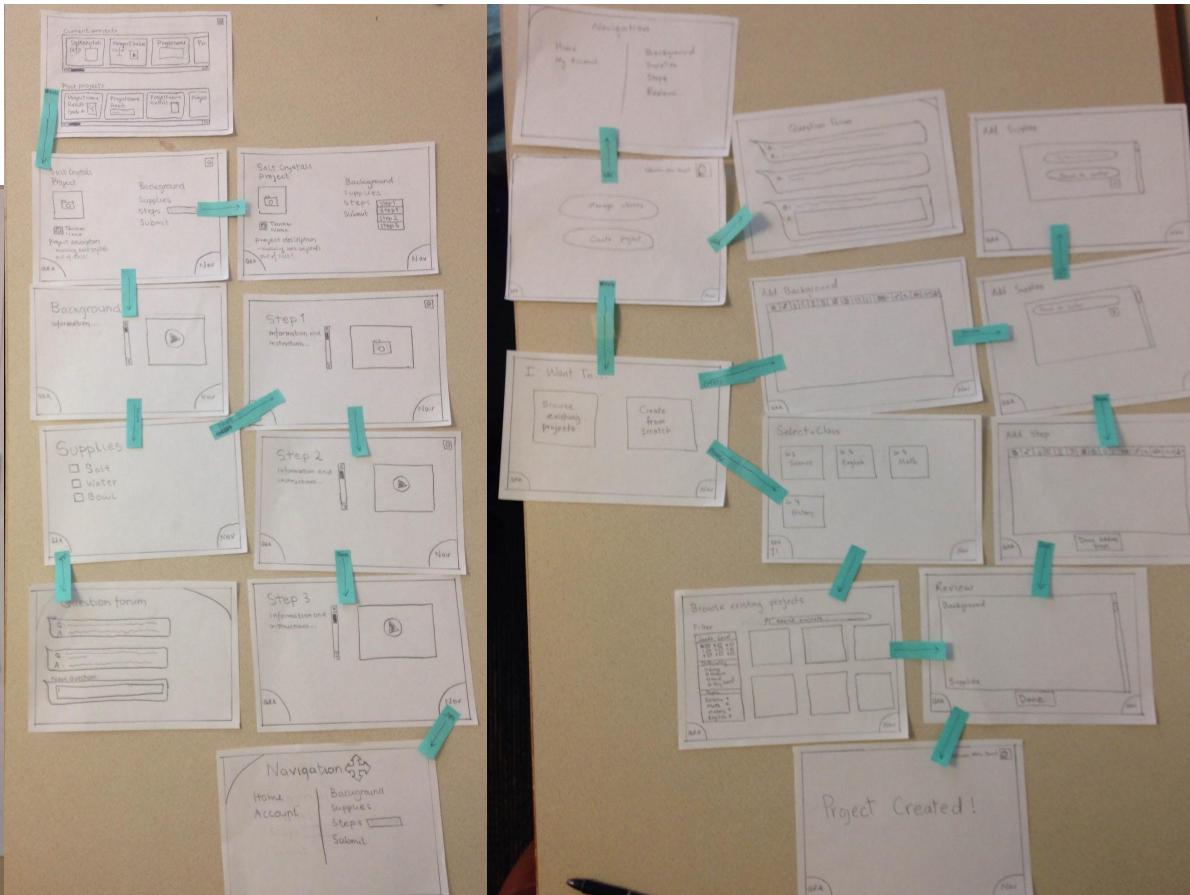


Lo-fi Prototype

Lo-fi prototype structure



Simple Task

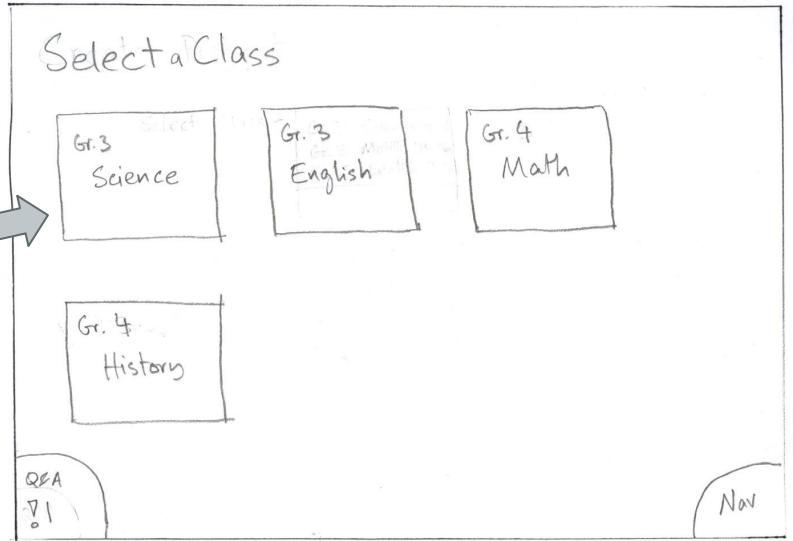
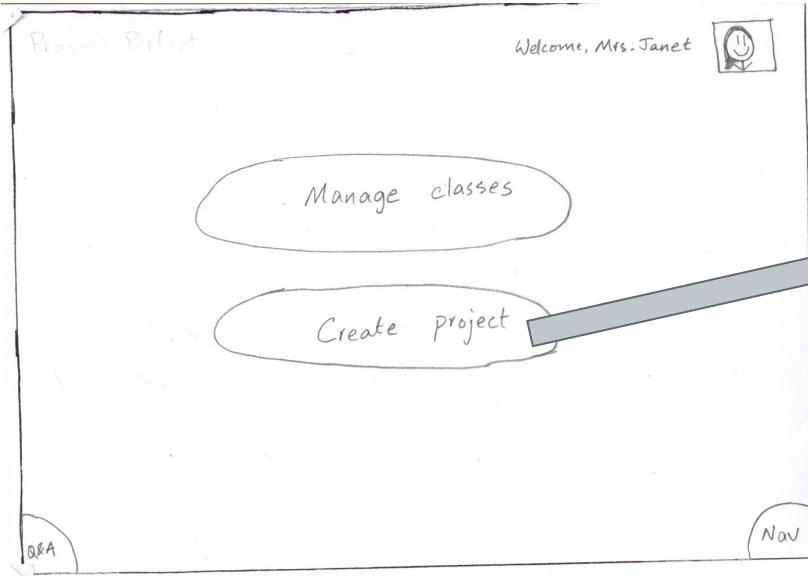


Medium Task

Complex Task

Task 1: Creating and Assigning Project

Teacher creates and assigns a class project with background info, a list of supplies, and instructions for students to follow.



Click create project

Select a Class

Gr. 3
Science

Gr. 3
English

Gr. 4
Math

Gr. 4
History

Q&A



Nav

I Want To...

Browse
existing
projects

Create
from
scratch

Q&A

Nav

select class

I Want To...

Browse existing projects

Create from scratch



Q&A

Nav

Browse existing projects

Filter

Grade Level

- K
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

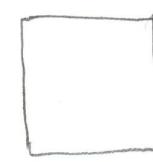
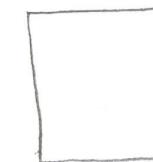
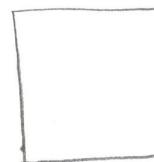
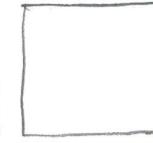
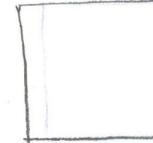
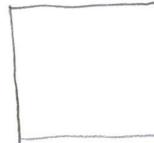
Difficulty

- Easy
- Medium
- Hard
- Very hard

Topic

- Science ▾
- Math ▾
- History ▾
- English ▾

Search projects



press browse existing projects

I Want To...

Browse
existing
projects

Create
from
scratch

Q&A

Nav

Add Background

B I U 三 三 三 回 (D : 三 1/2 ABC A² A³ A³ 12V A⁹

Q&A

Nav

Press create from scratch

Add Background

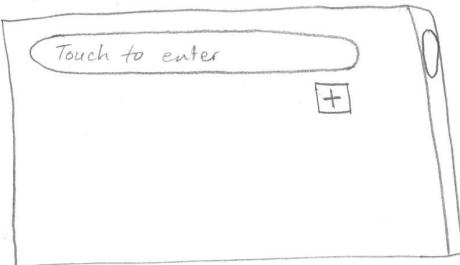
B I U 三 三 三 三 ① 三 1 - 1 - ABC A² A₂ A³ A₃ 12 A⁴ A₄

Q&A

Nav



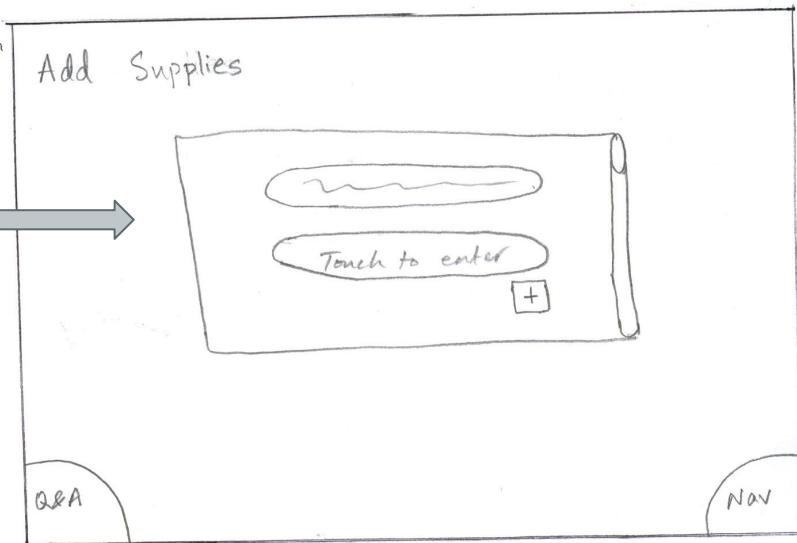
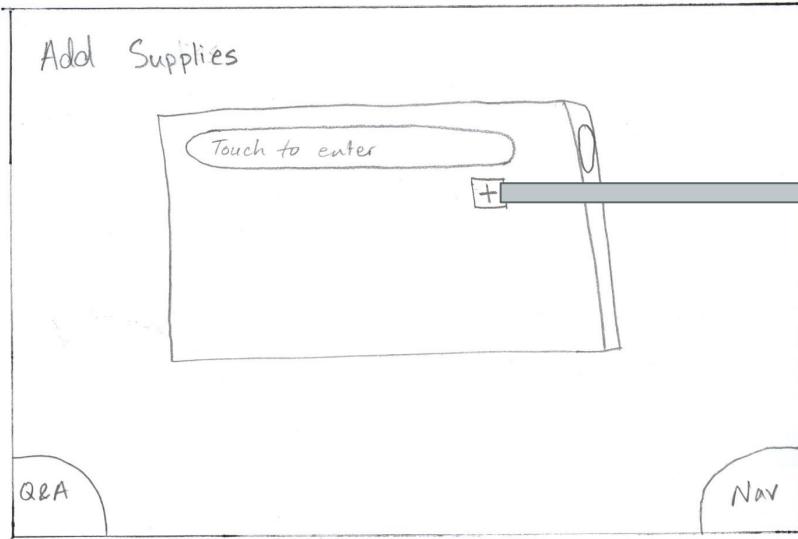
Add Supplies



Q&A

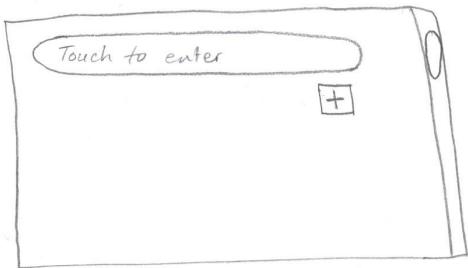
Nav

Swipe right



Press +

Add Supplies



Q&A

NAV

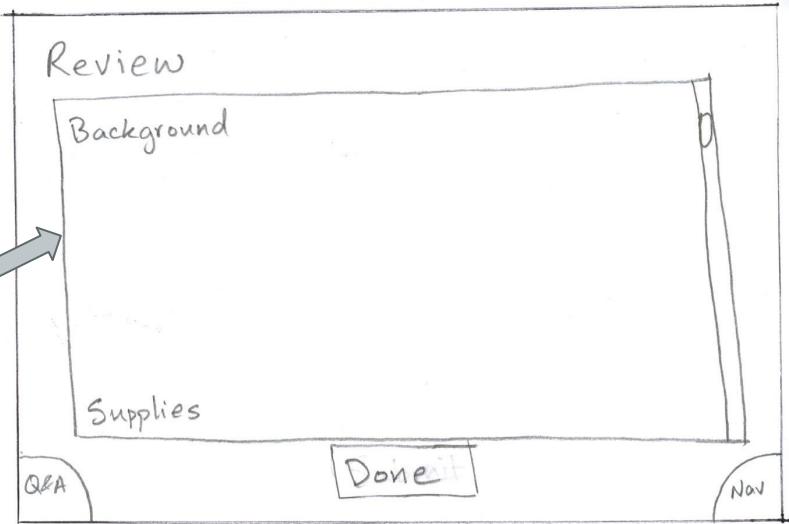
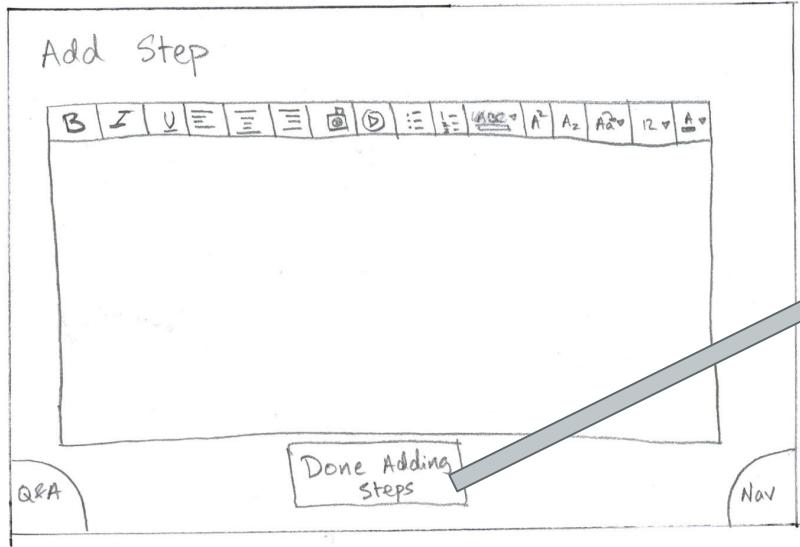
Add Step



Done Adding
Steps

NAV

Swipe right



Press “done adding steps”

Review

Background

Supplies

Q&A

Done

Nav



Press "done"

Welcome, Mrs. Janet 

Project Created!

Q&A

Nav



Project Created!

Welcome, Mrs. Janet



Q&A

Nav

Swipe Nav

Navigation

Home

My Account

Background
Supplies
Steps
Review

Welcome, Mrs. Janet



Project Created!

Q&A

Nav

Question Forum

Q:

A:

Q:

A:

Q:

A:

Swipe Q&A

Task 2: Doing the Project

Students work on the project step-by-step and ask questions when needed.

Projects

Current projects

Saltcrystals info

Projecthouse info

Projectname

Project

Past projects

Projectname Result Grade A+

Projectname Result

Project

Salt Crystals Project

Background

Supplies

Steps

Submit

Teacher Name

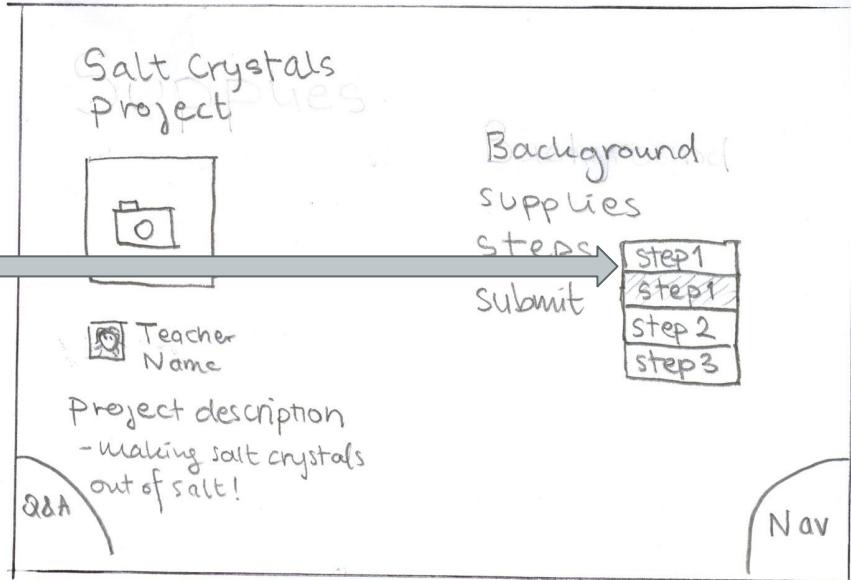
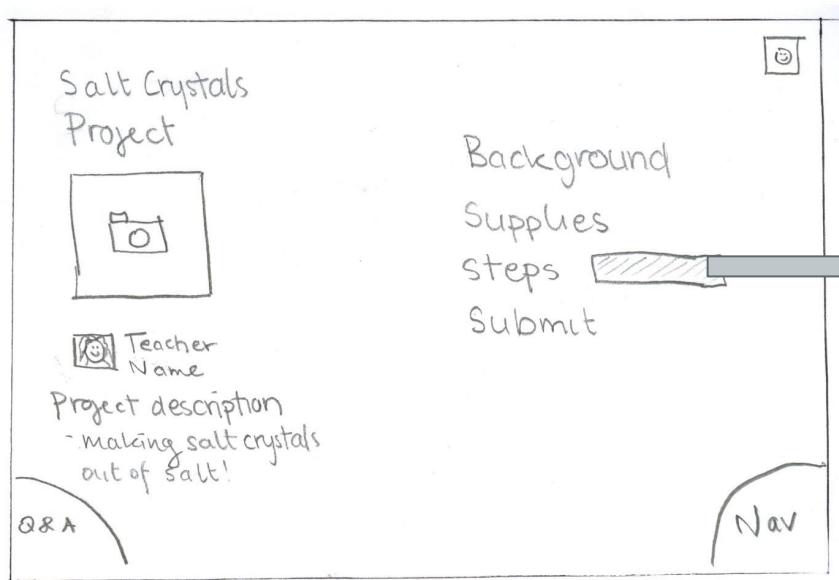
Project description

- making salt crystals out of salt!

Q&A

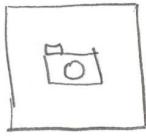
Nav

Scroll through list, press a project



Press drop down bar

Salt Crystals Project



Teacher
Name

Project description
- making salt crystals
out of salt!

Q&A

Background
Supplies
steps
Submit

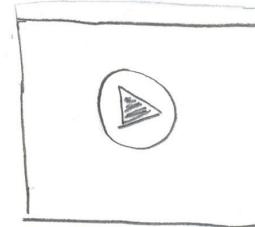


Nav

Background

Information...

Next >



Q&A

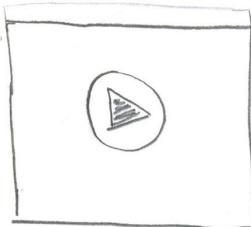
Nav

Swipe right

Background

Information

Nav salt



Nav

Q&A

Nav

Supplies

- Salt
- Water
- Bowl

Q&A

Nav

Swipe right

Supplies

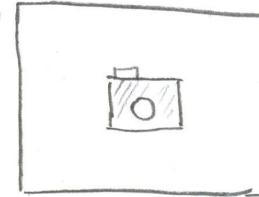
- Salt
- Water
- Bowl

Q&A

Nav

Step 1

Information and
Instructions...

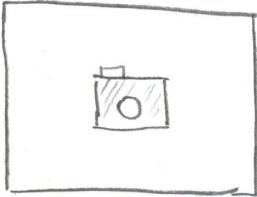


Nav

Swipe right

Step 1

Information and
Instructions...

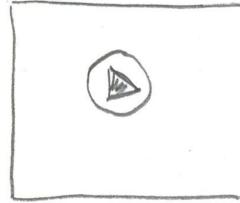


Q&A

Nav

Step 2

Information and
Instructions...

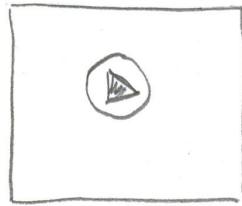


Nav

Swipe right

Step 2

Information and
Instructions...

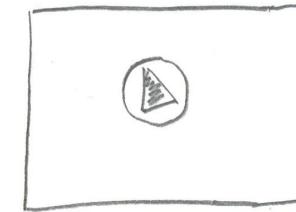


Q&A

Nav

Step 3

Information and
Instructions...



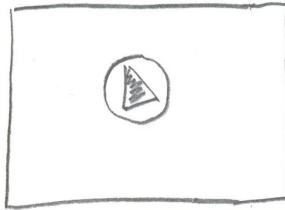
Q&A

Nav

Swipe right

Step 3

Information and
Instructions--



Q&A

Nav

Question forum

Q: ~~~~~
A: ~~~~~

Q: ~~~~~
A: ~~~~~

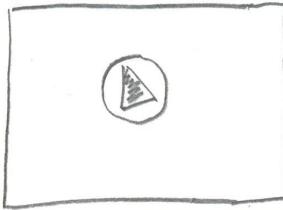
New question:

'

Swipe Q&A / at any point of project

Step 3

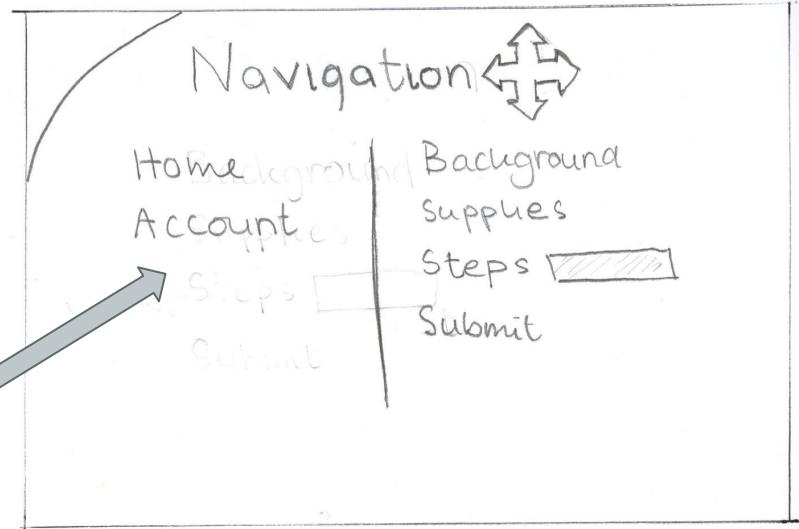
Information and
Instructions--



Project
Details

Q&A

Nav



Swipe ↘ to go to Navigation at any point in project

Task 3: Submitting the Project

Students submit the completed class project for teacher review.

Summary

Step 1



Step 2



continue

Q&A

Upload

picture: or

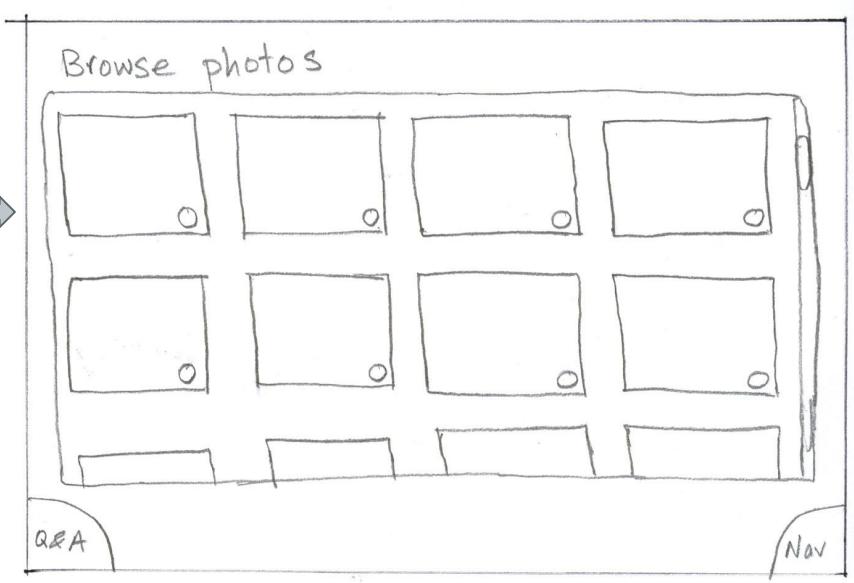
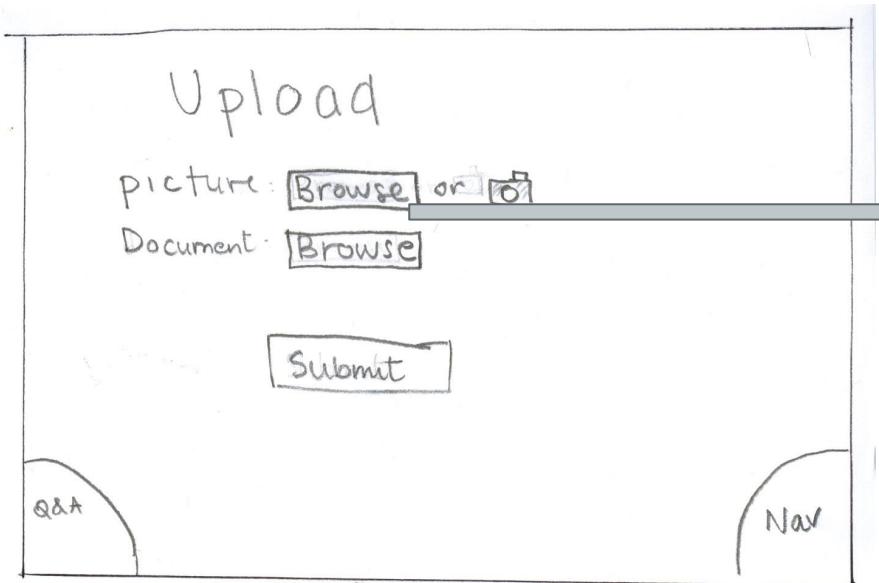
Document:

Nav

Q&A

Nav

Press continue

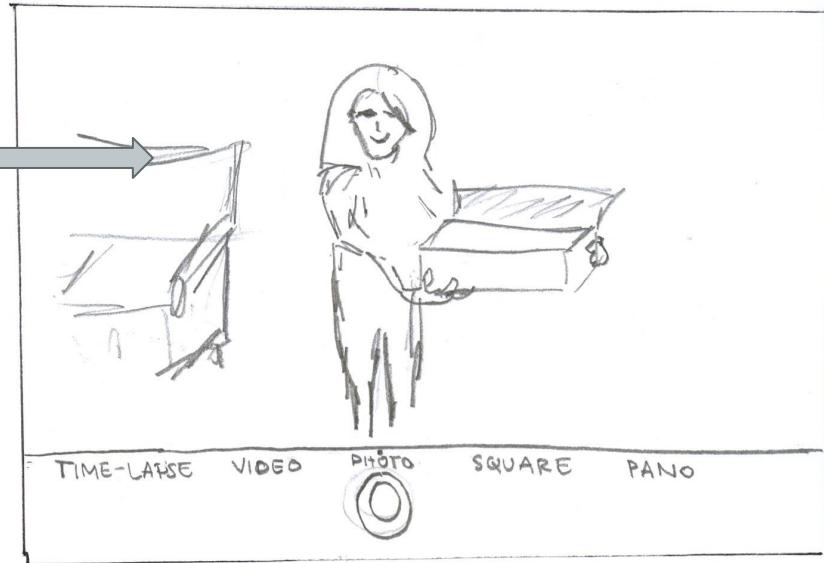


Press "browse"

Upload

picture: or

Document:



Press the camera button

Upload

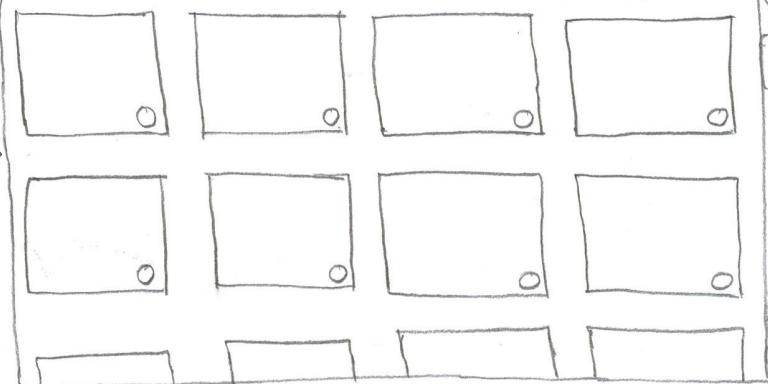
picture: or

Document:

Q&A

Nav

Browse documents



Q&A

Nav

Press browse

Upload

picture: or

Document:

Q&A

Nav

Project Submitted!



Great job Mark!



Welcome, Mark

NAV

Press "submit"

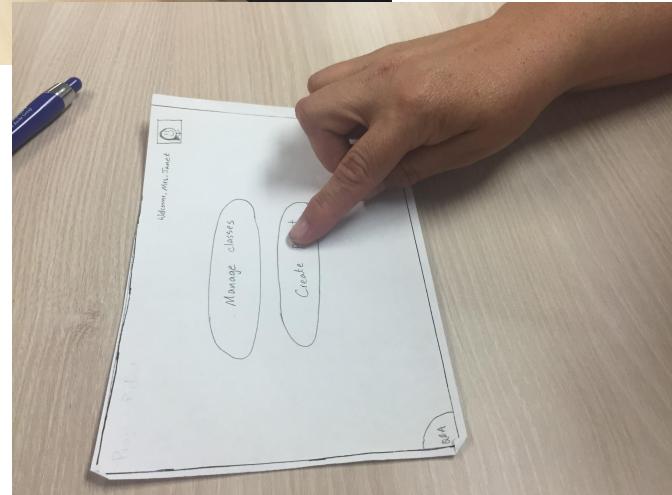
Testing

Experimental Method

1. Target Audience: Elementary school teachers and students
2. Quick questions to understand context and technical background
3. Introduction of the user's context
4. Completion of relevant tasks
5. Feedback/Comments/Suggestions

Test 1: Teacher

- Figured out the interface quickly
- Flow fit thought process
- “Nav” and “Q/A” buttons not obvious
- Adding pictures/video to pages was not obvious
- Felt student could answer questions
- Wanted export option



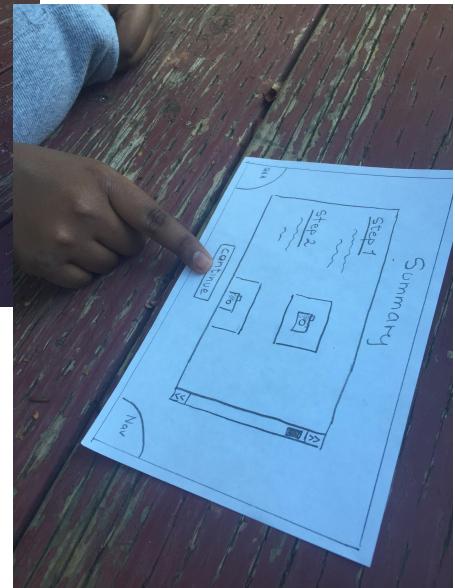
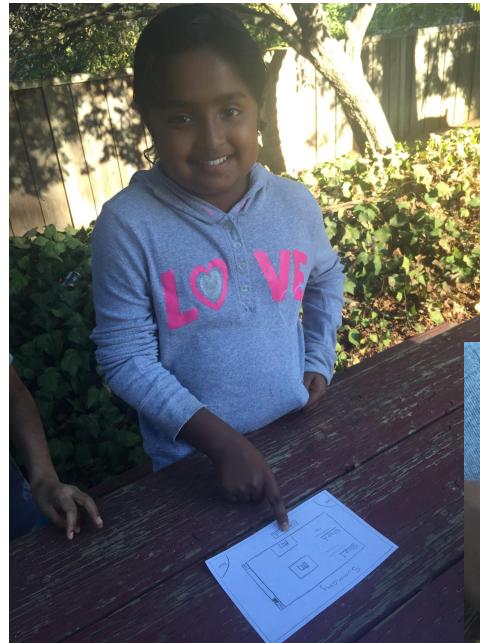
Test 2: Student 1

- Thought the landing page was intuitive
- Liked swiping between pages
- Didn't find corner button obvious
- Felt like questions did not need to be private
- Wanted to answer Q/A questions



Test 3: Student 2

- Wanted section for just-assigned projects
- Wanted comments for questions
- Confused by what “Nav” was
- Thought corners could be touch-based as well
- Really likes using the interface



Moving
Forward

Changes to Current UI

- Improve clarity and relevance of titles and headers
- Change design and/or positioning of Q/A and Nav button to make them less confusing
- Possible redesign project creation pages

Added features

- Let students answer questions
- Include way to export created projects
- More student-to-student interaction

Summary

- Task flows were seen as intuitive
- Opinions on the interface were generally positive
- Need to improve our UI to mitigate confusion
- New features of the app we need to add on

Thank you!