Developing the Design:

Lo-fi Prototype

EduConnect

Presented by Ikechi Akujobi

Introduction

Overview

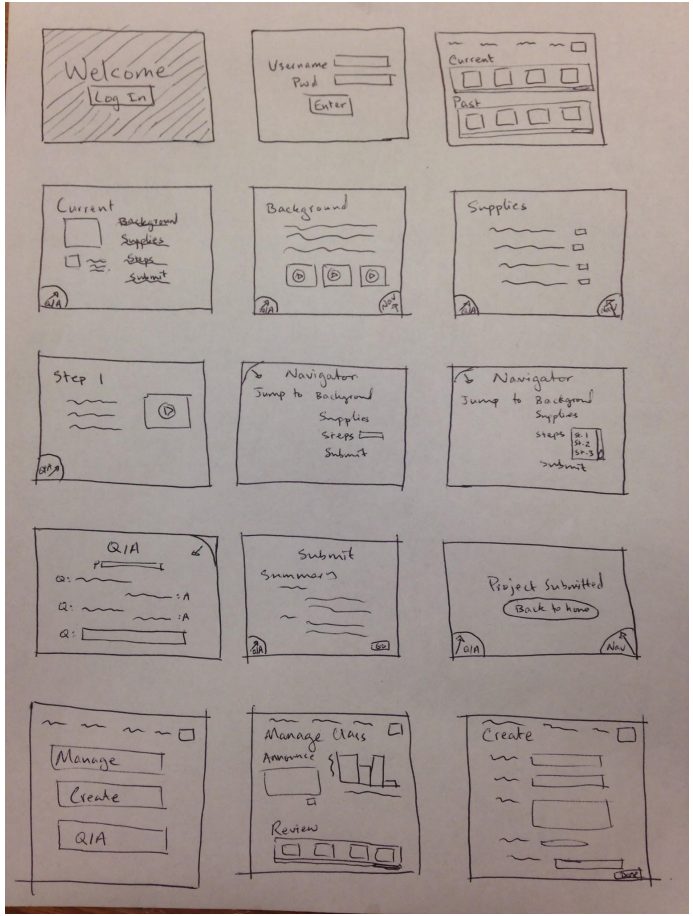
- Mission statement
- Chosen interface
- Lo-fi prototype and three tasks
- User testing
- Changes to Make

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

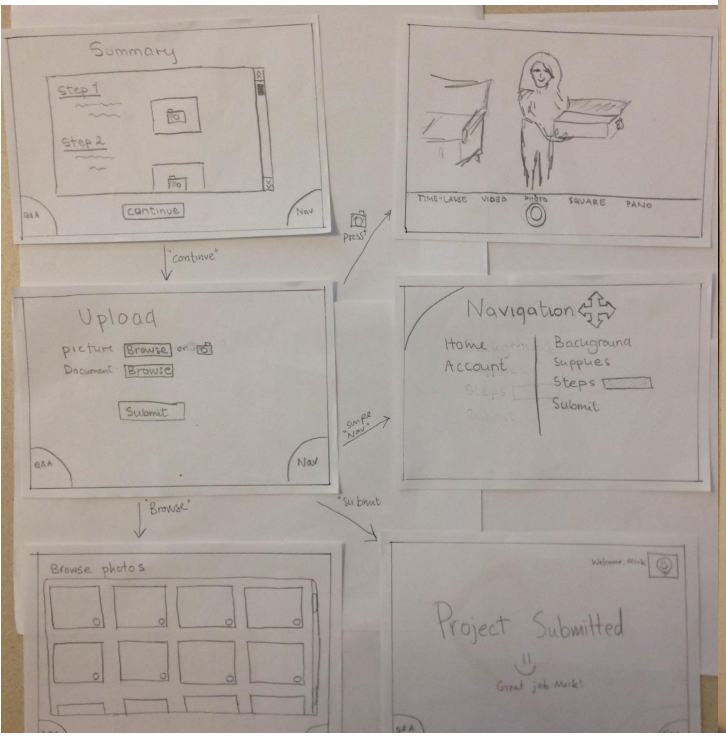
Pros:

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

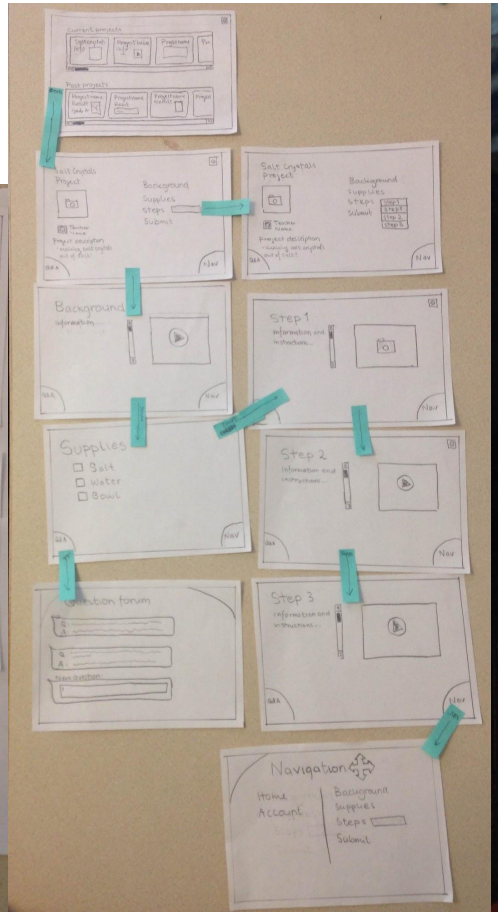


Lo-fi Prototype

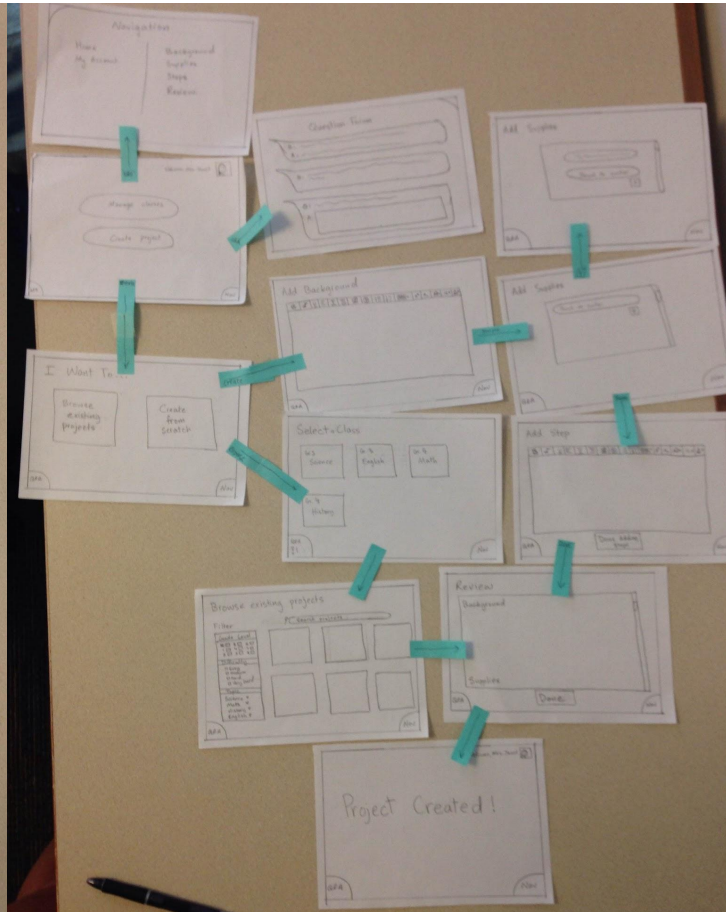
Lo-fi prototype structure



Simple Task



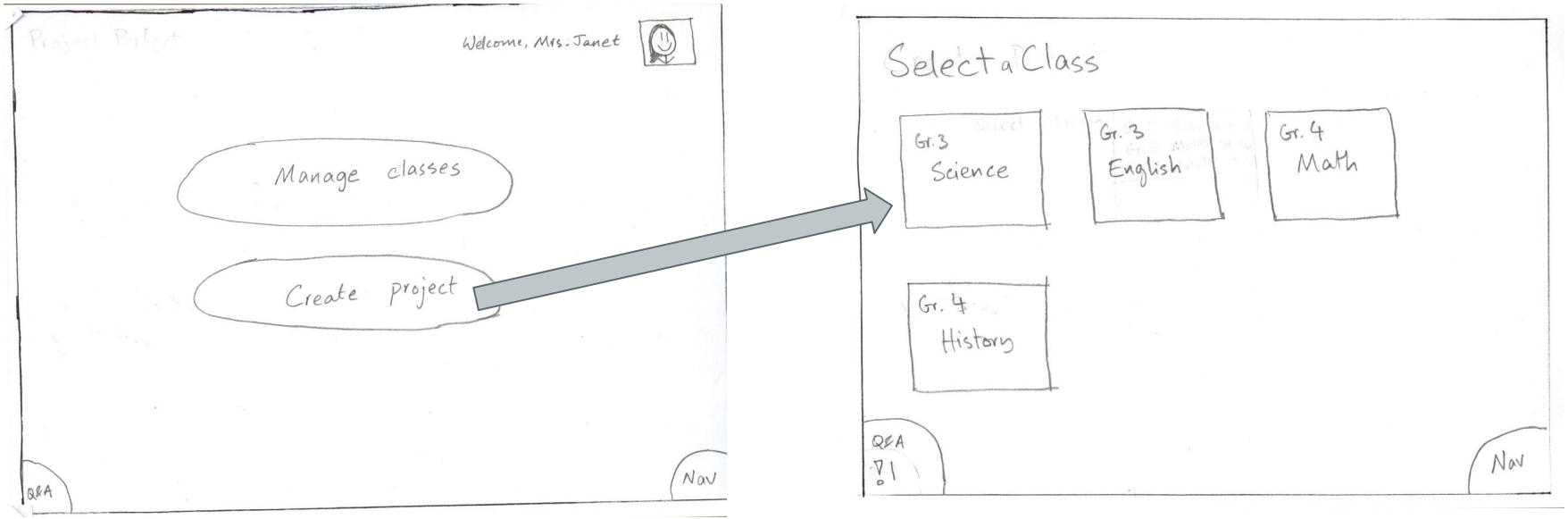
Medium Task



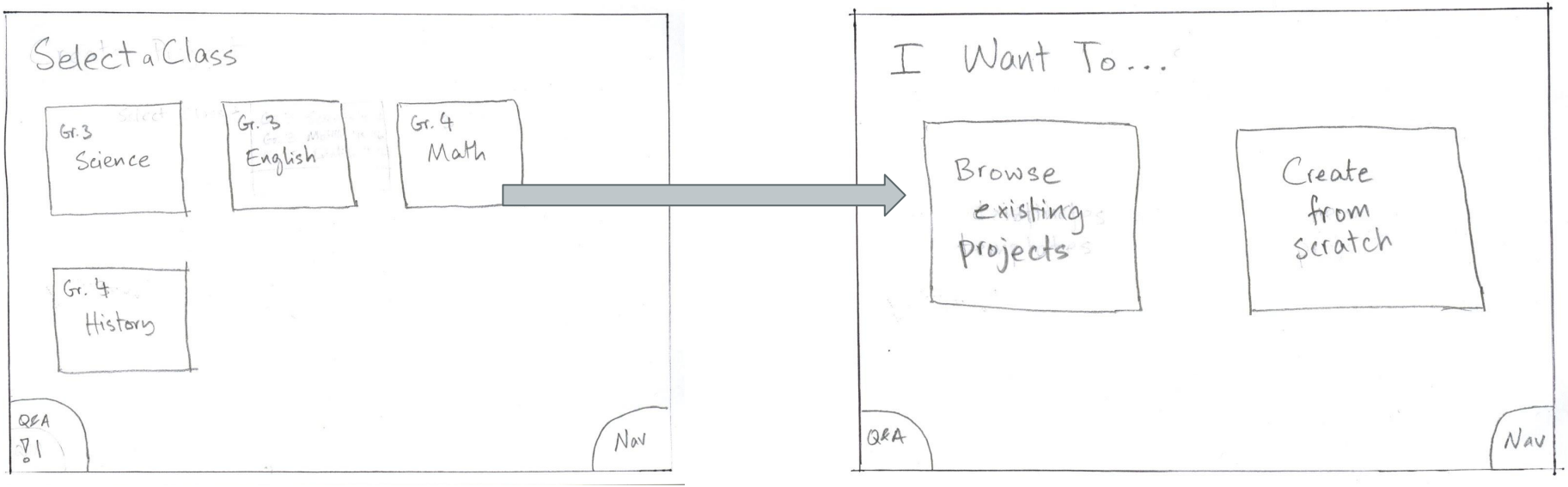
Complex Task

Task 1: Creating and Assigning Project

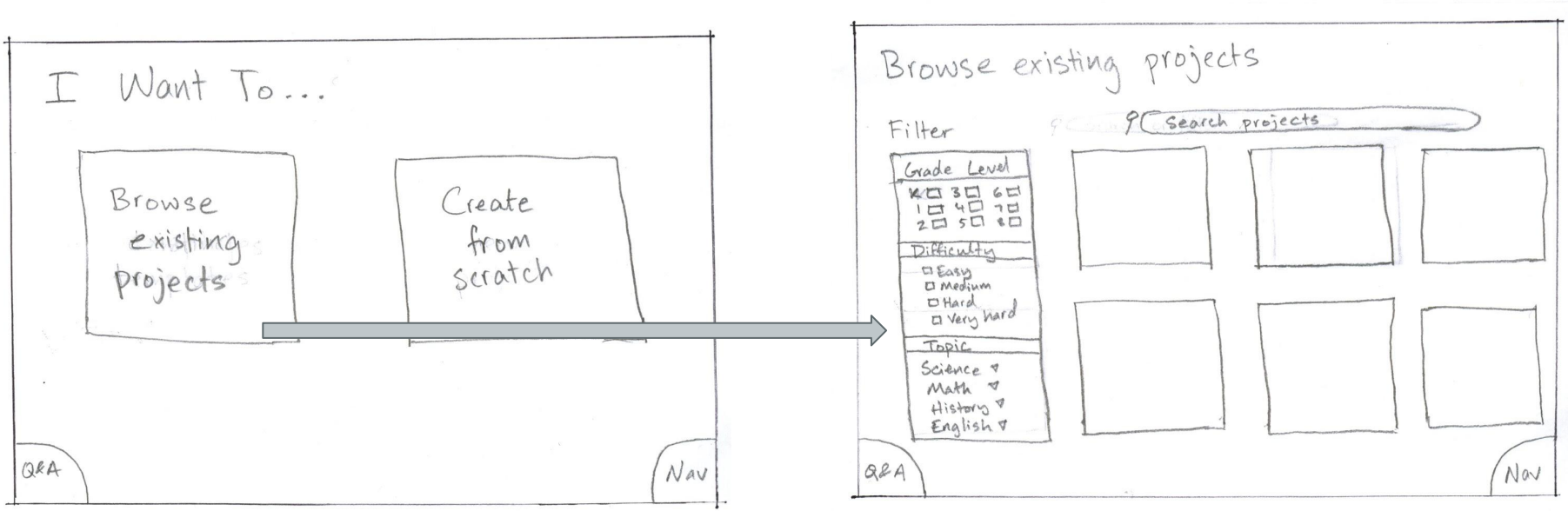
Teacher creates and assigns a class project with background info, a list of supplies, and instructions for students to follow.



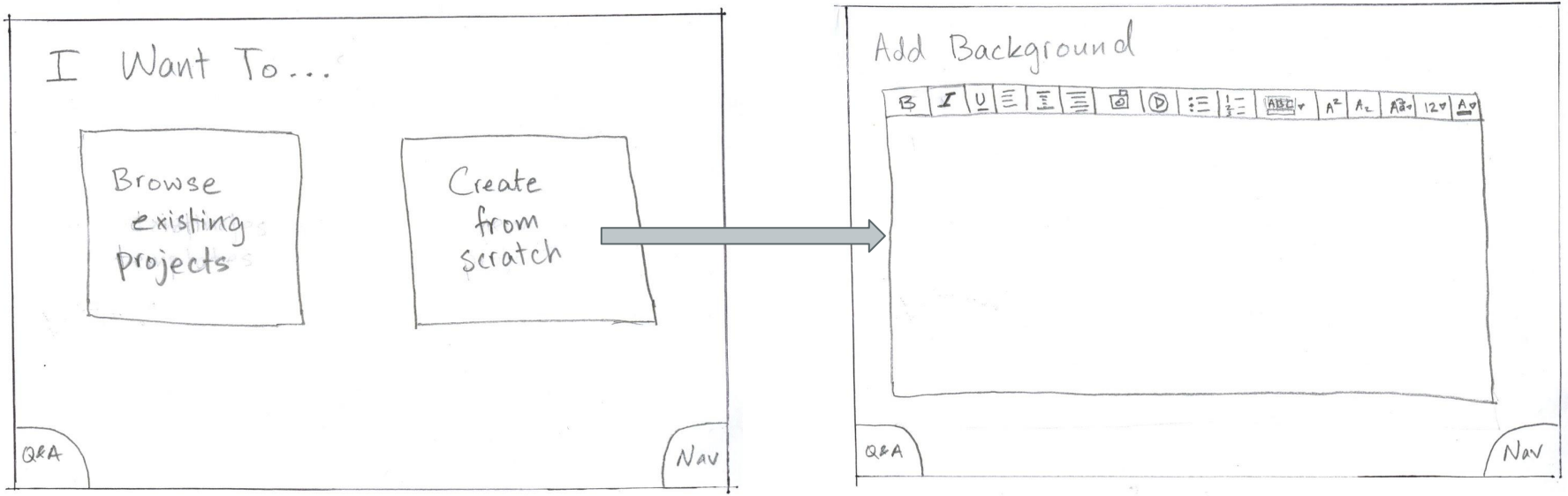
Click create project



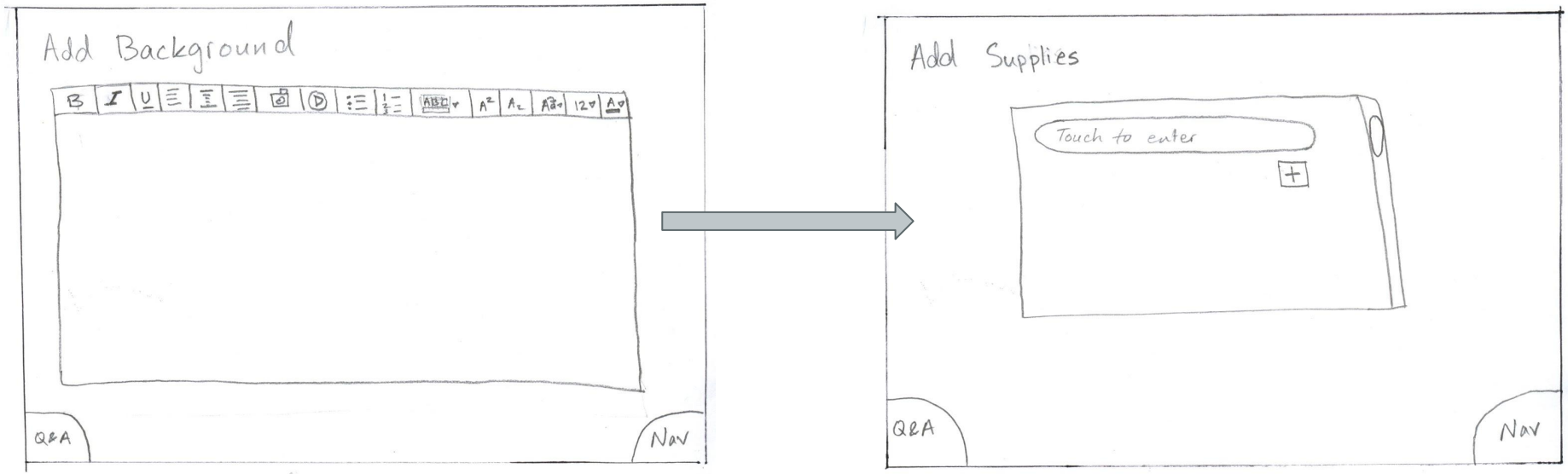
select class



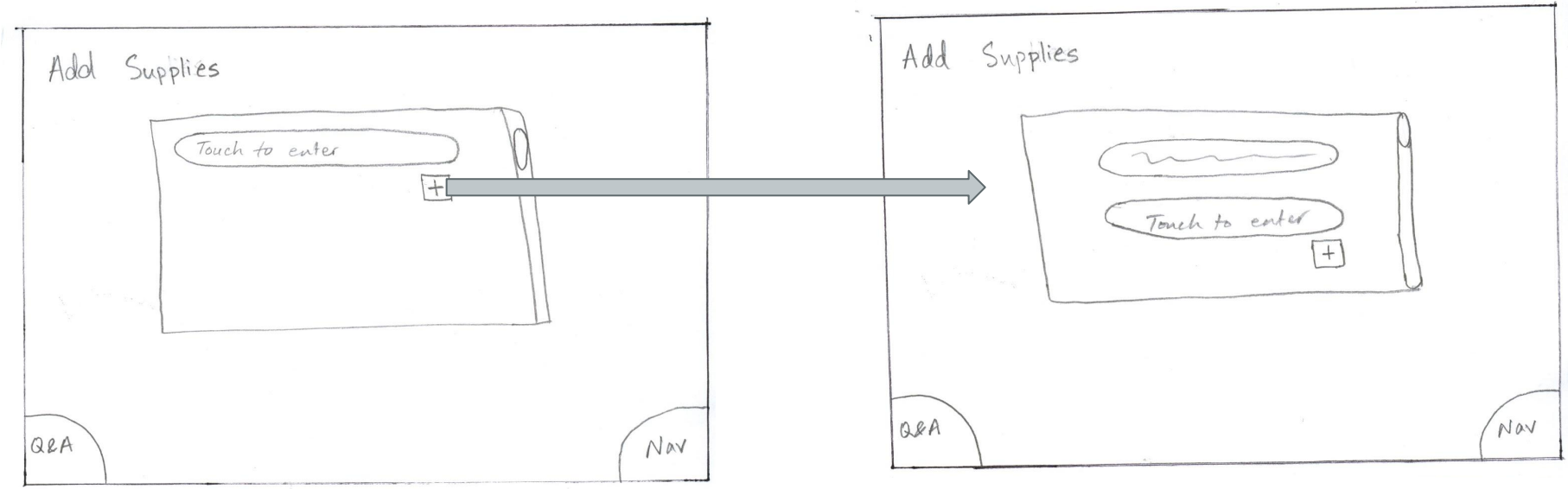
press browse existing projects



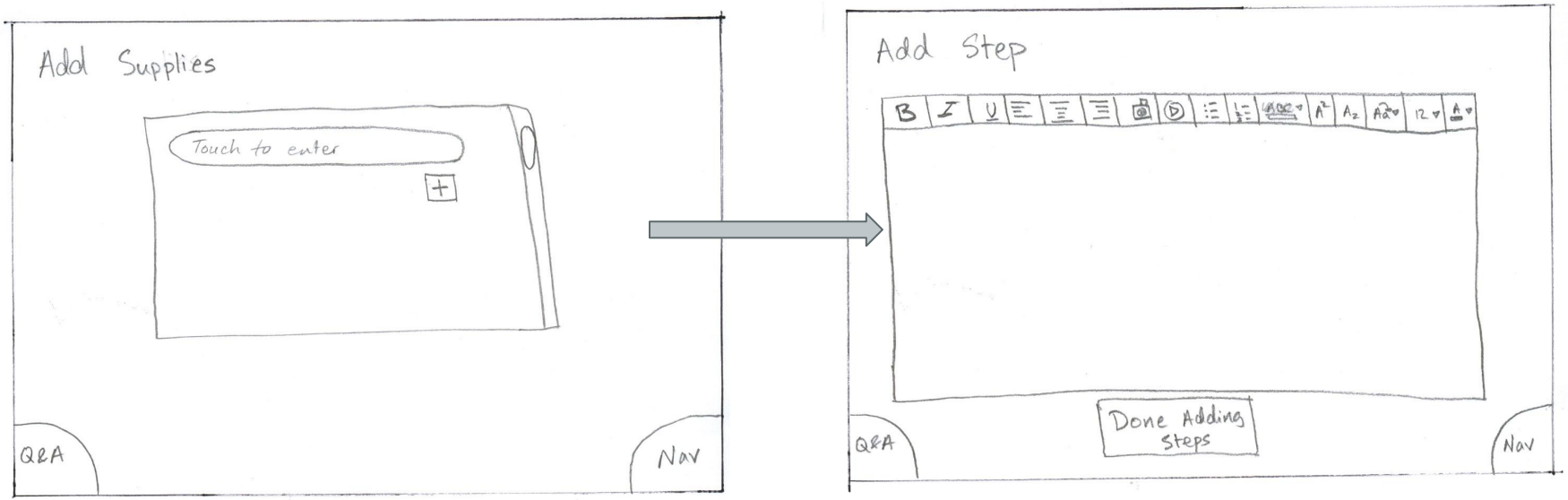
Press create from scratch



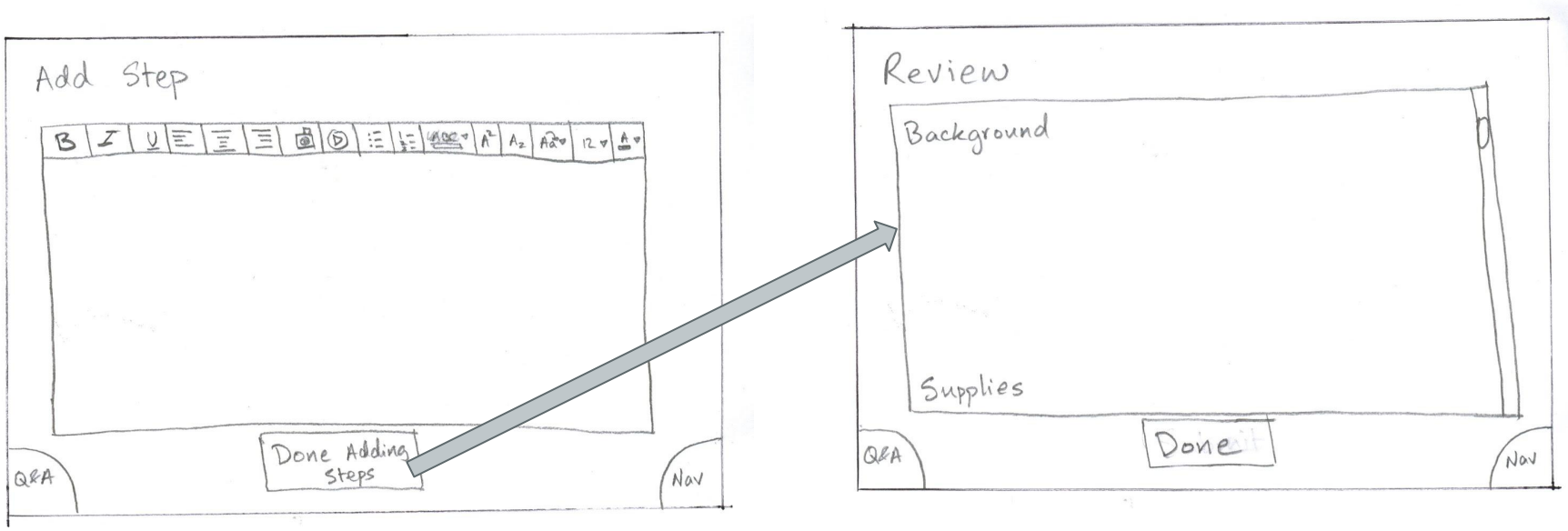
Swipe right


Add Supplies
Touch to enter
+
Q&A
Nav
Add Supplies
Touch to enter
+
Q&A
Nav

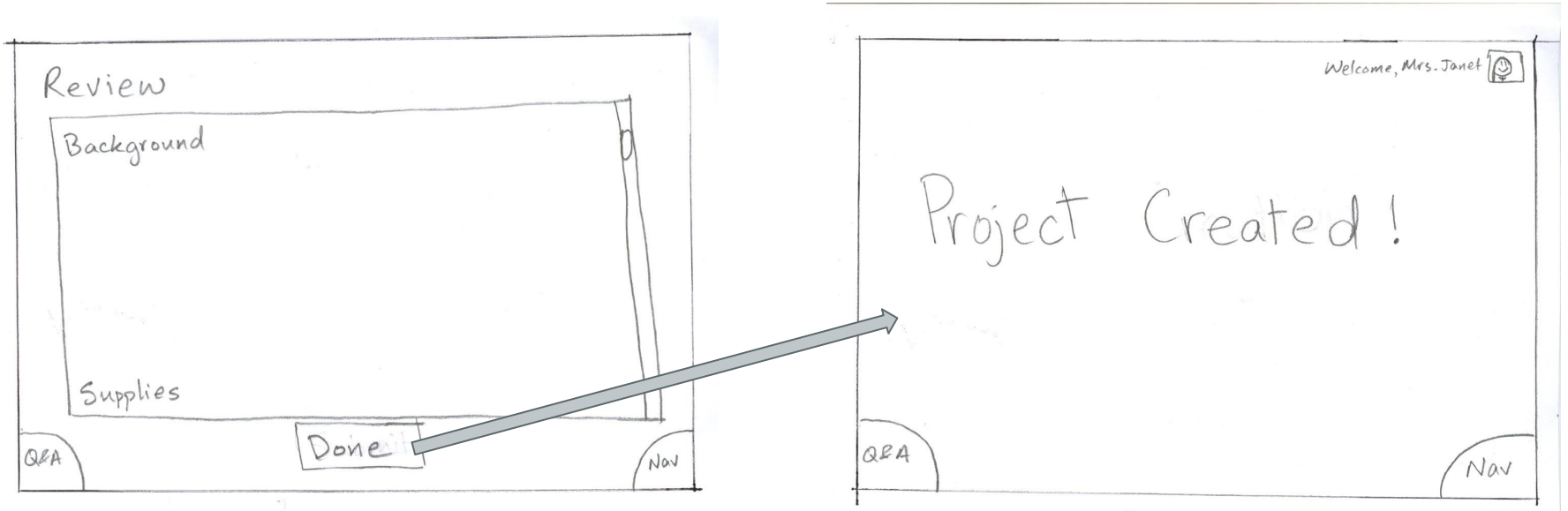
Press +


Add Supplies
Touch to enter
+
Q&A
Nav
Add Step
B
I
U
12
Done Adding Steps
Q&A
Nav

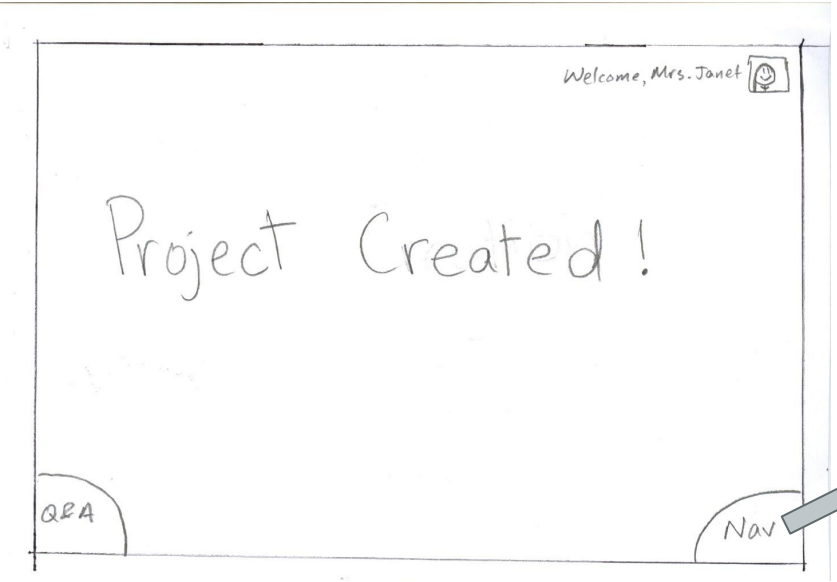
Swipe right

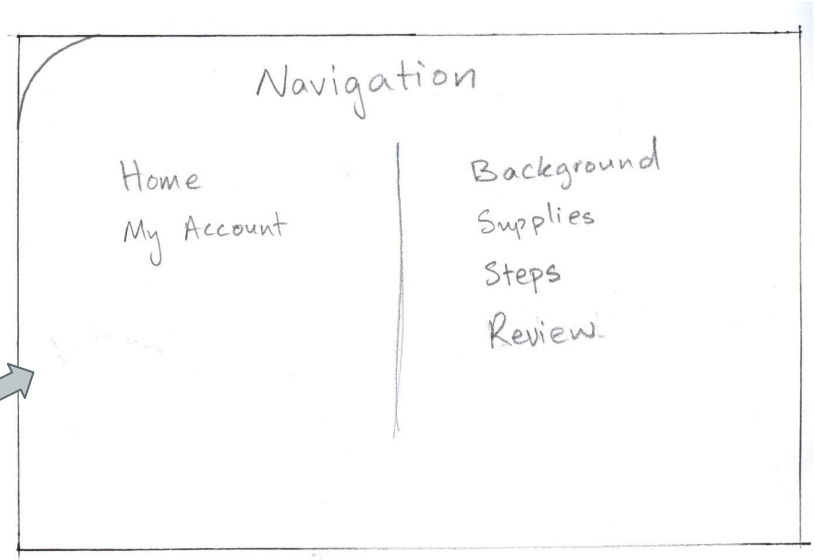


Press “done adding steps”

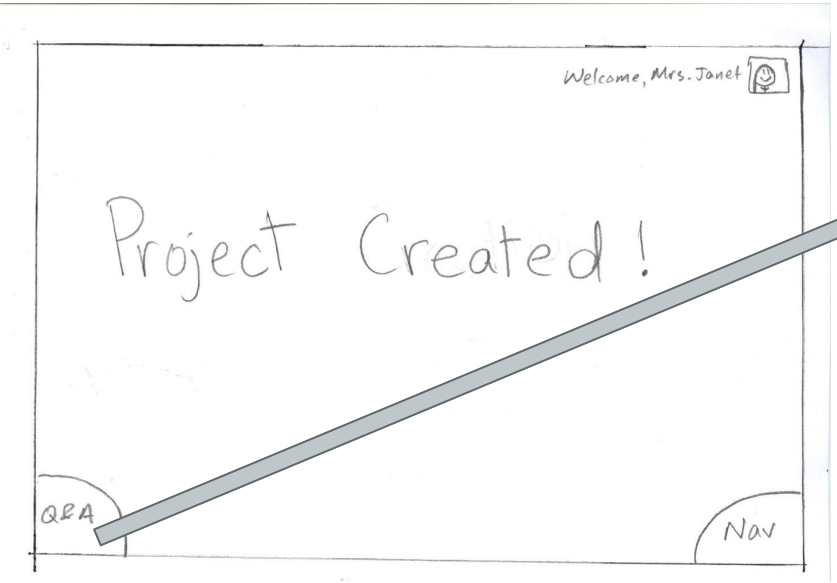

Review
Background
Supplies
Done
Q&A
Nav
Welcome, Mrs. Janet
Project Created!
Q&A
Nav

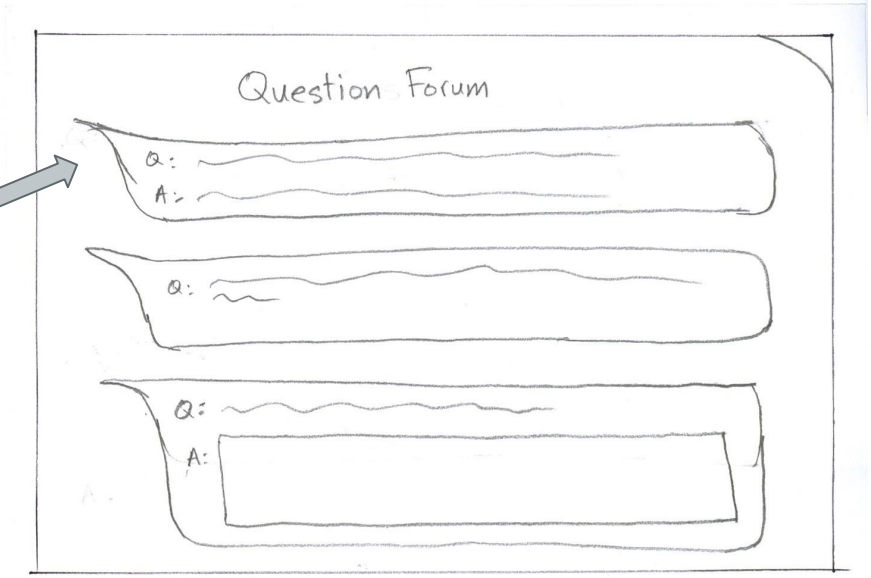
Press “done”


Welcome, Mrs. Janet
Project Created!
Q&A
Nav


Navigation
Home
My Account
Background
Supplies
Steps
Review

Swipe Nav

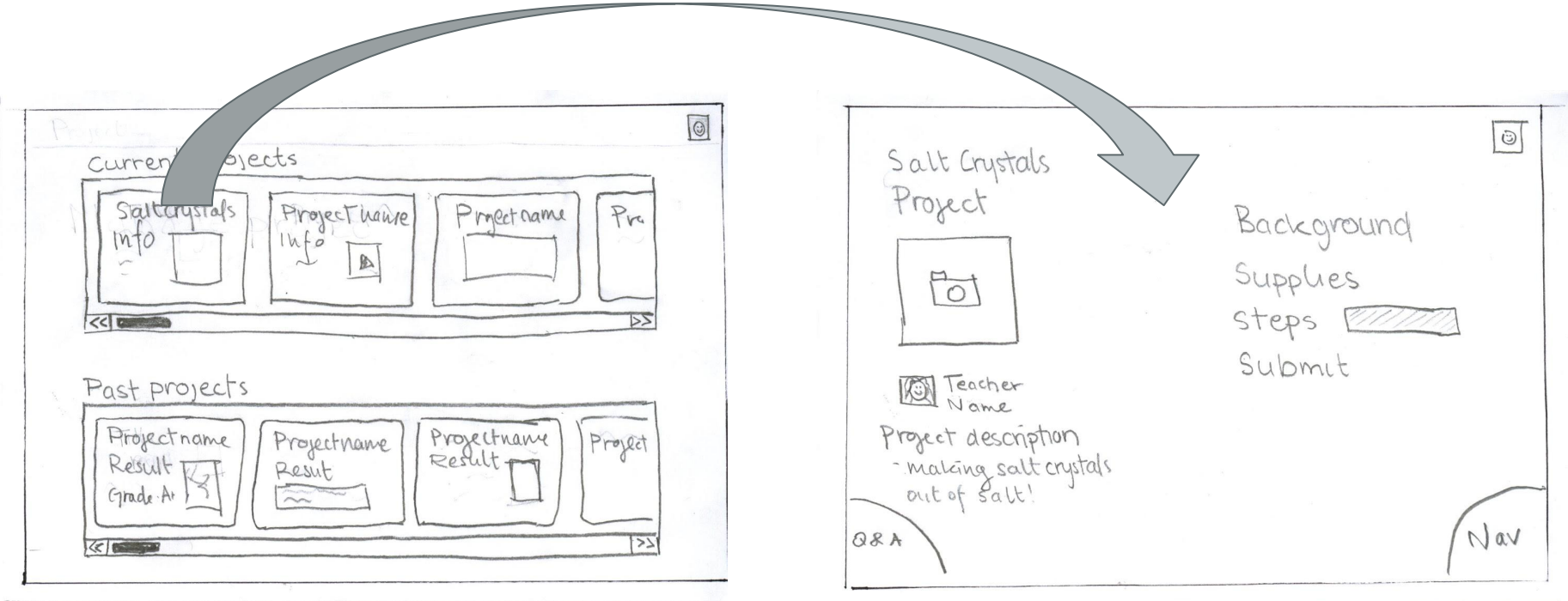

Welcome, Mrs. Janet
Project Created!
Q&A
Nav


Question Forum
Q:
A:
Q:
Q:
A:

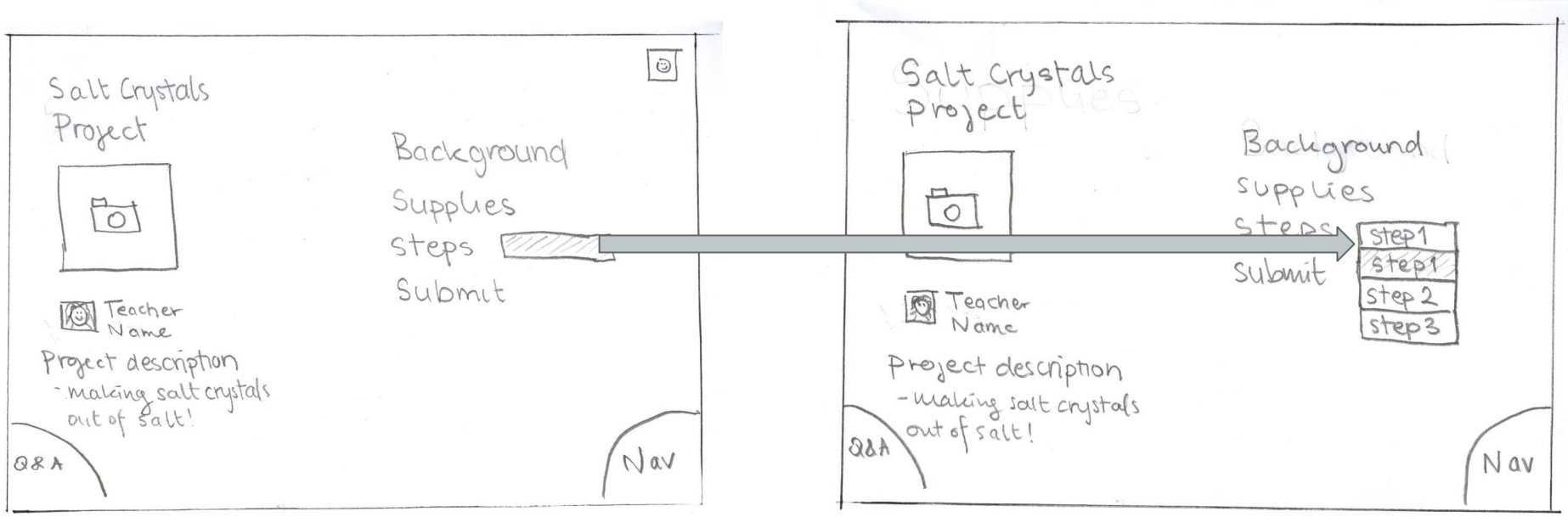
Swipe Q&A

Task 2: Doing the Project

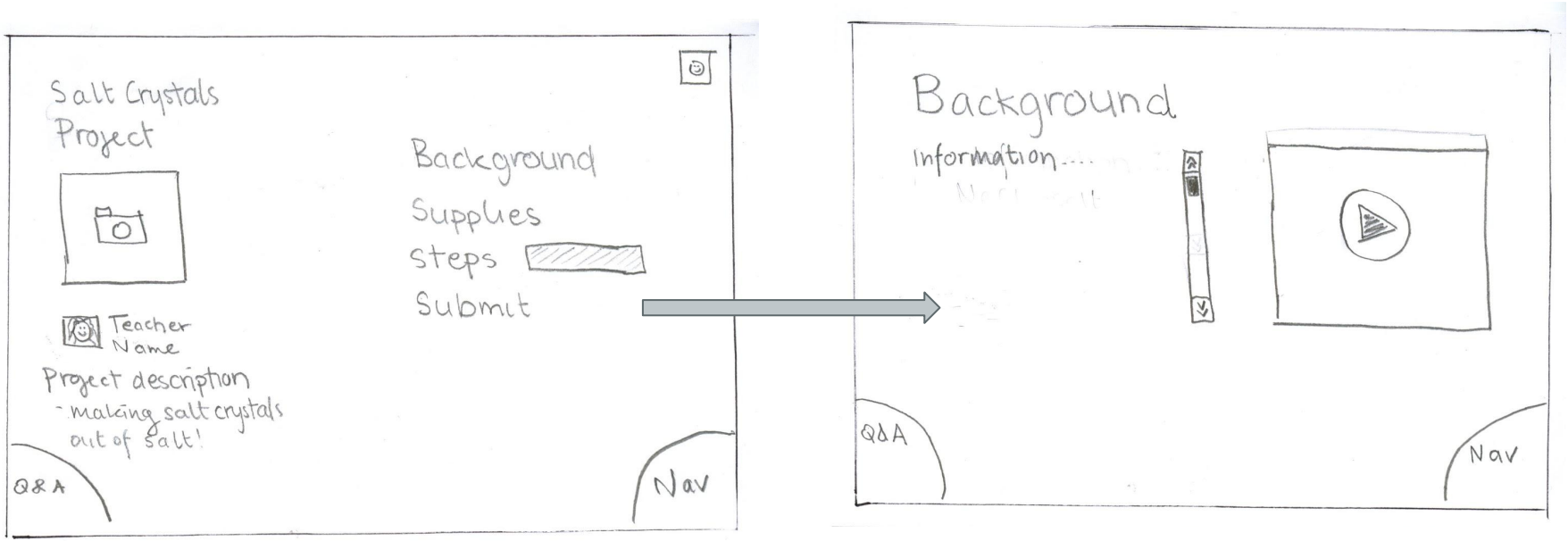
Students work on the project step-by-step and ask questions when needed.



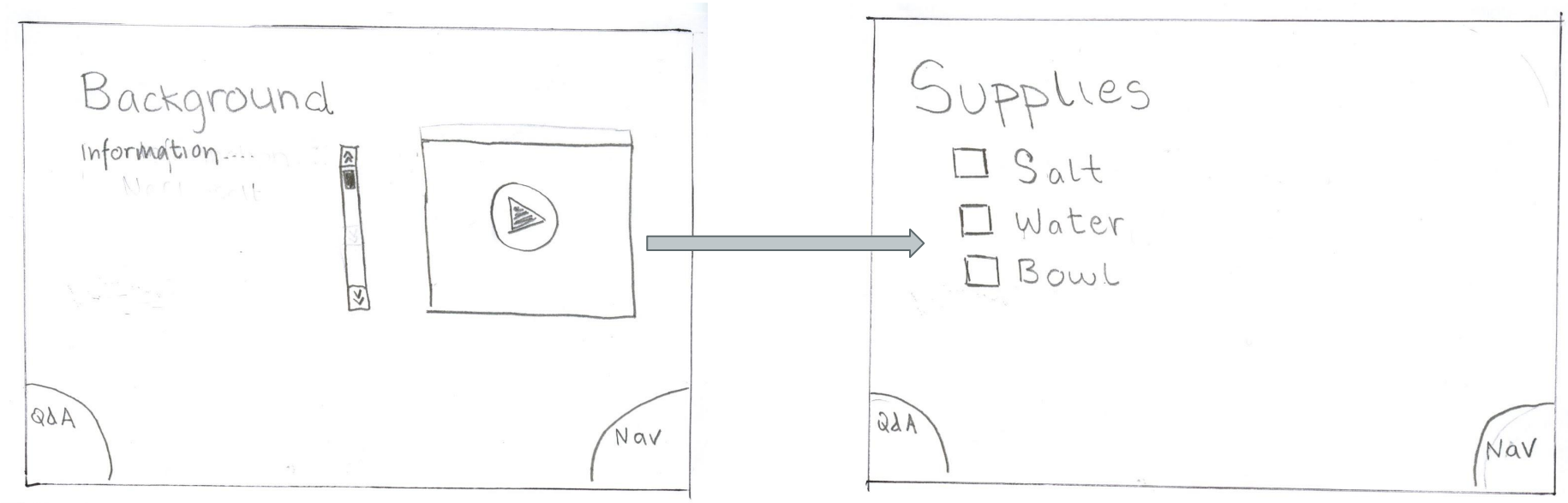
Scroll through list, press a project



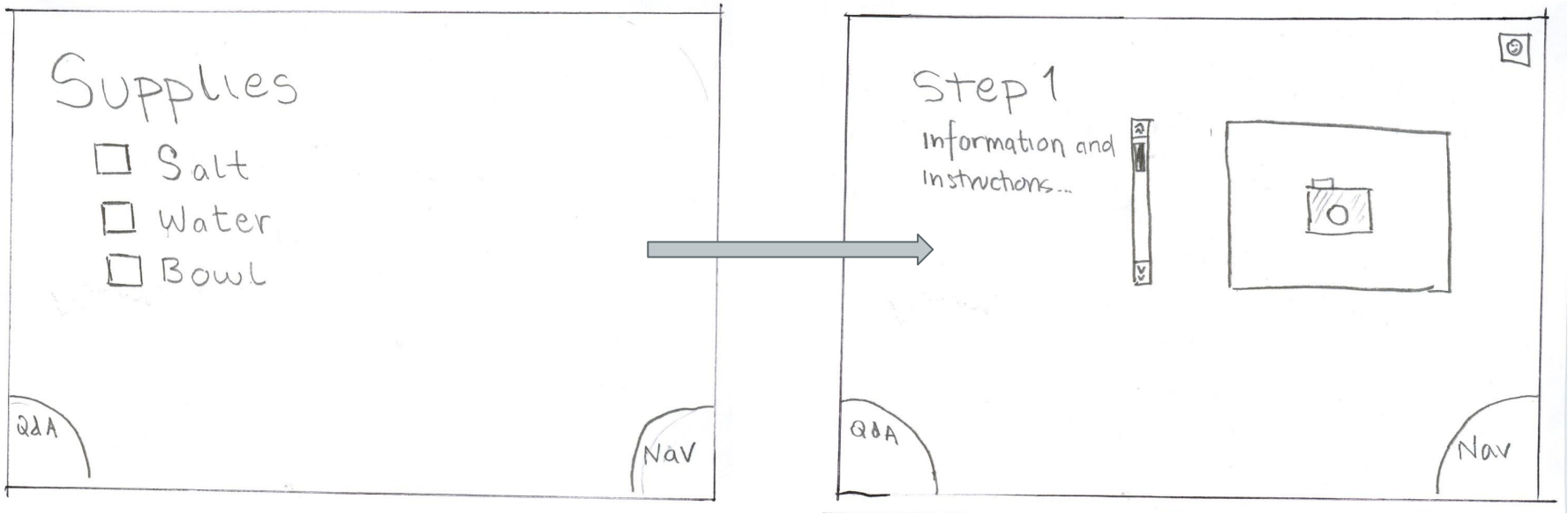
Press drop down bar


Salt Crystals
Project
Teacher
Name
Project description
- making salt crystals
out of salt!
Q&A
Background
Supplies
Steps
Submit
Nav
Background
Information....
Q&A
Nav

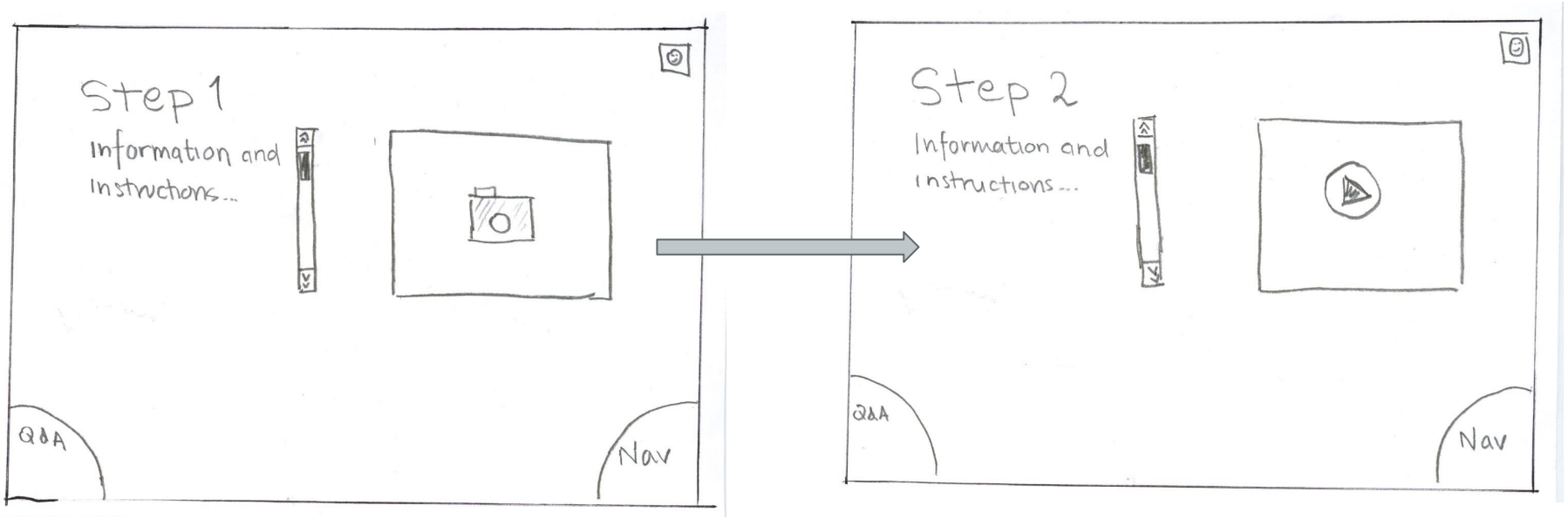
Swipe right


Background
Information....
Q&A
Nav
Supplies
Salt
Water
Bowl
Q&A
Nav

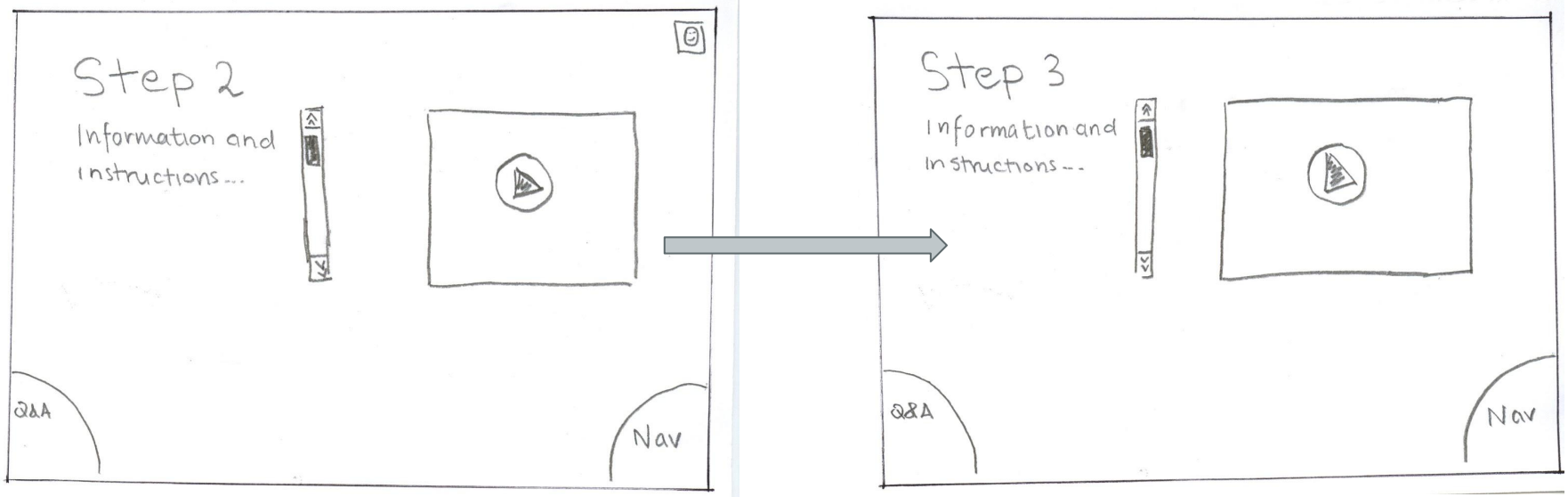
Swipe right


Supplies
Salt
Water
Bowl
Q&A
Nav
Step 1
Information and instructions...
Q&A
Nav

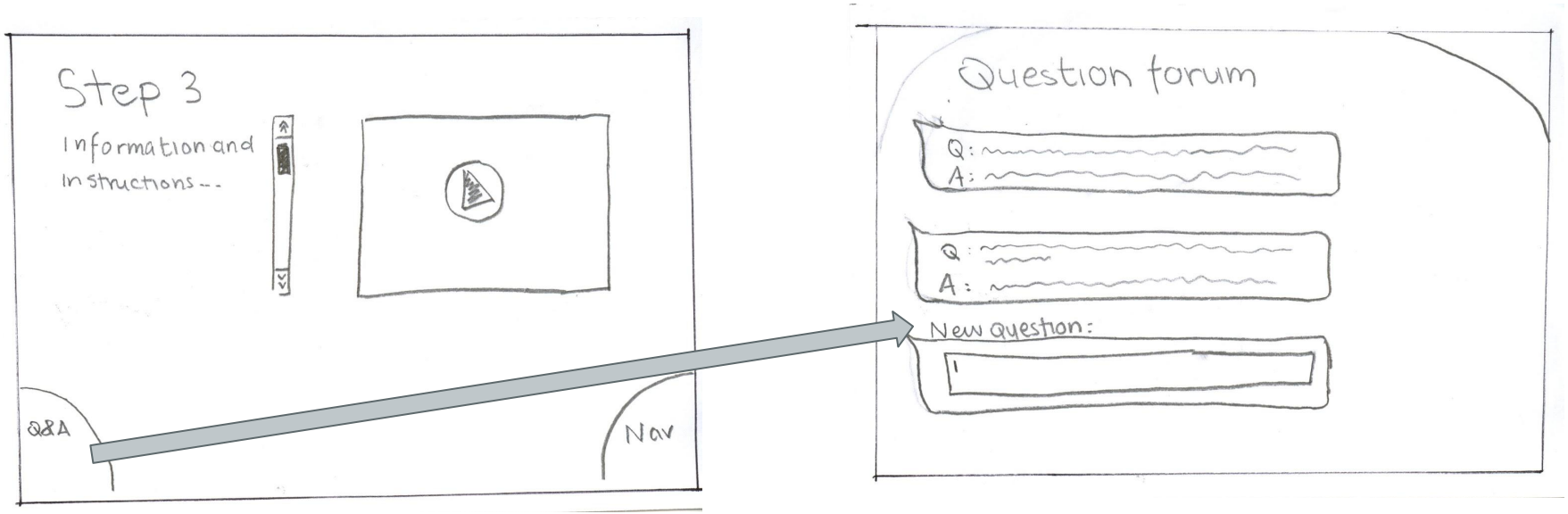
Swipe right


Step 1
Information and instructions...
Q&A
Nav
Step 2
Information and instructions...
Q&A
Nav

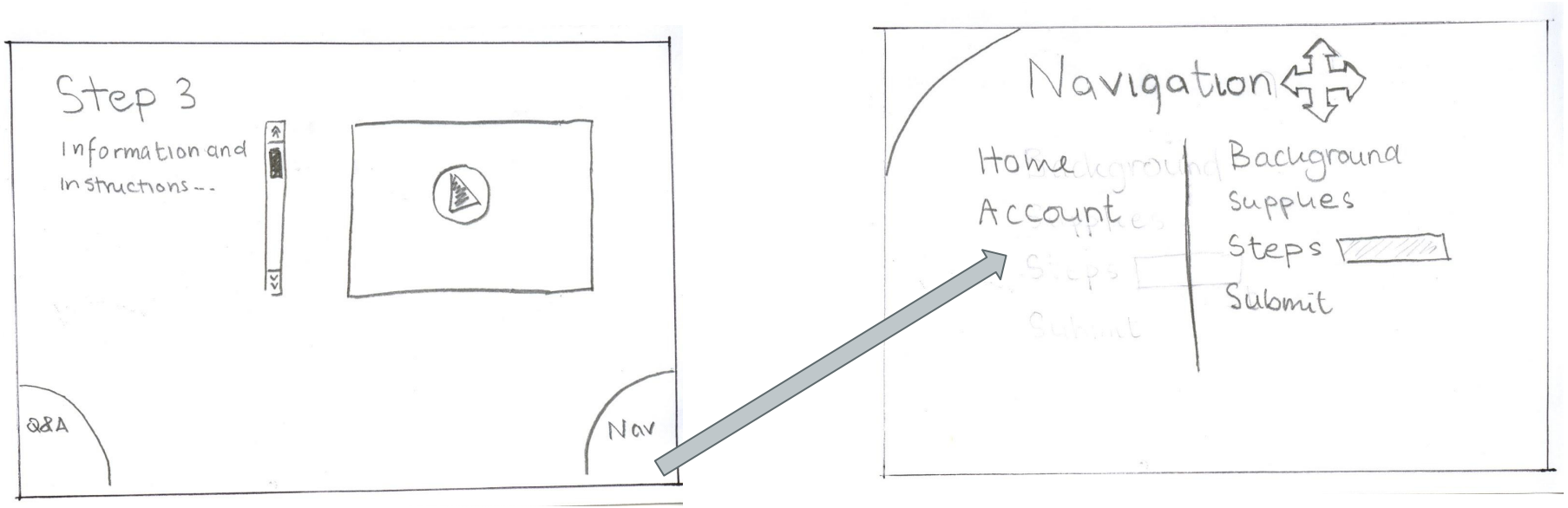
Swipe right


Step 2
Information and instructions...
Q&A
Nav
Step 3
Information and instructions...
Q&A
Nav

Swipe right



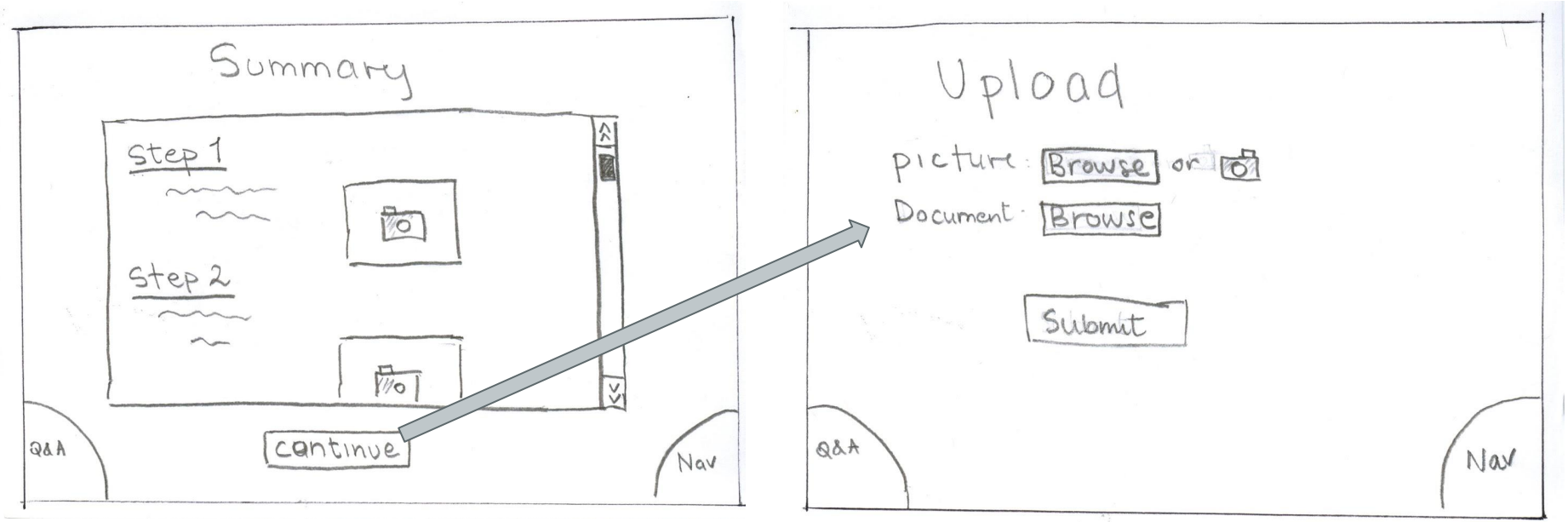
Swipe Q&A ↗ at any point of project



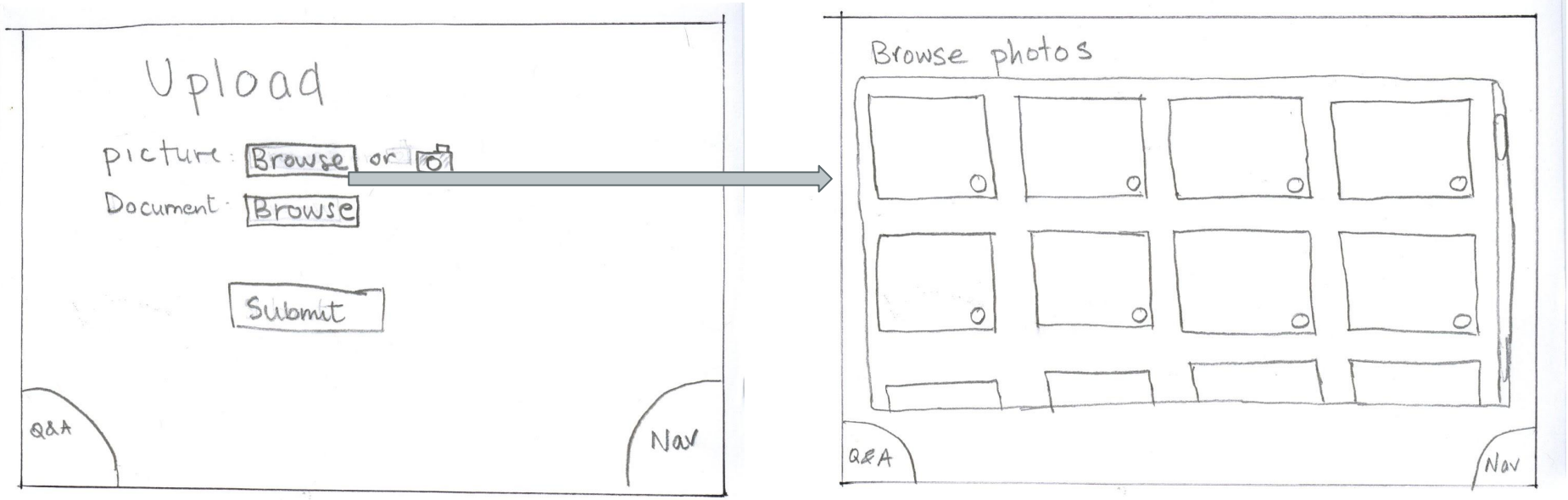
Swipe *to go to Navigation at any point in project*

Task 3: Submitting the Project

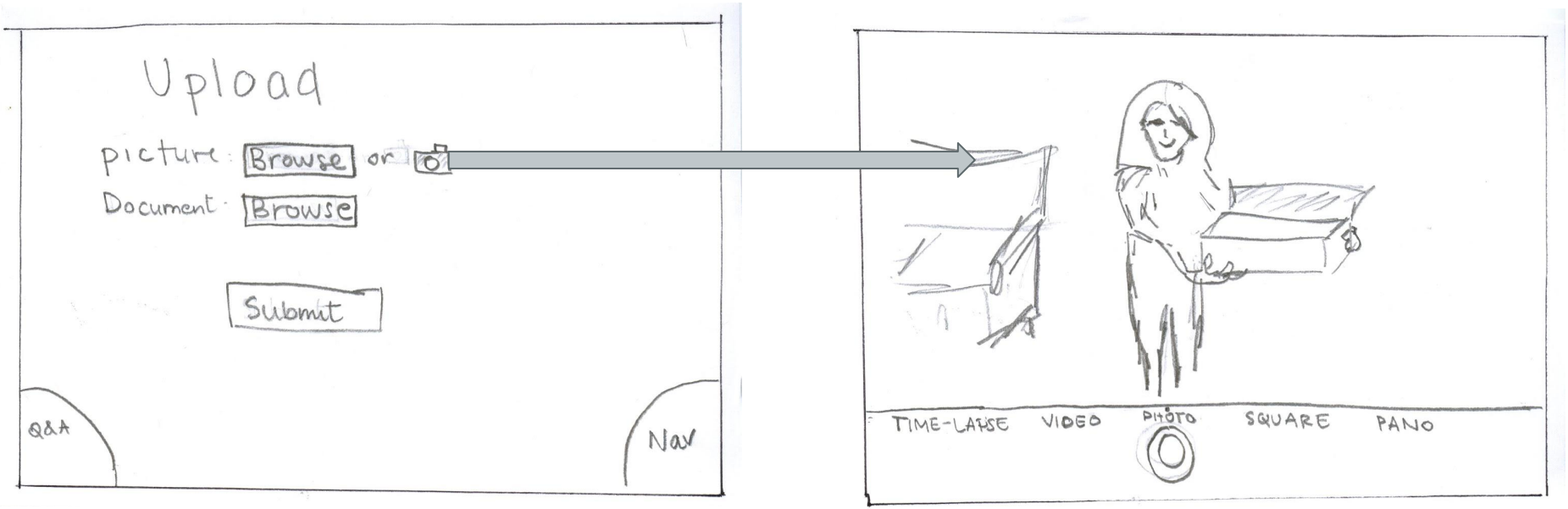
Students submit the completed class project for teacher review.



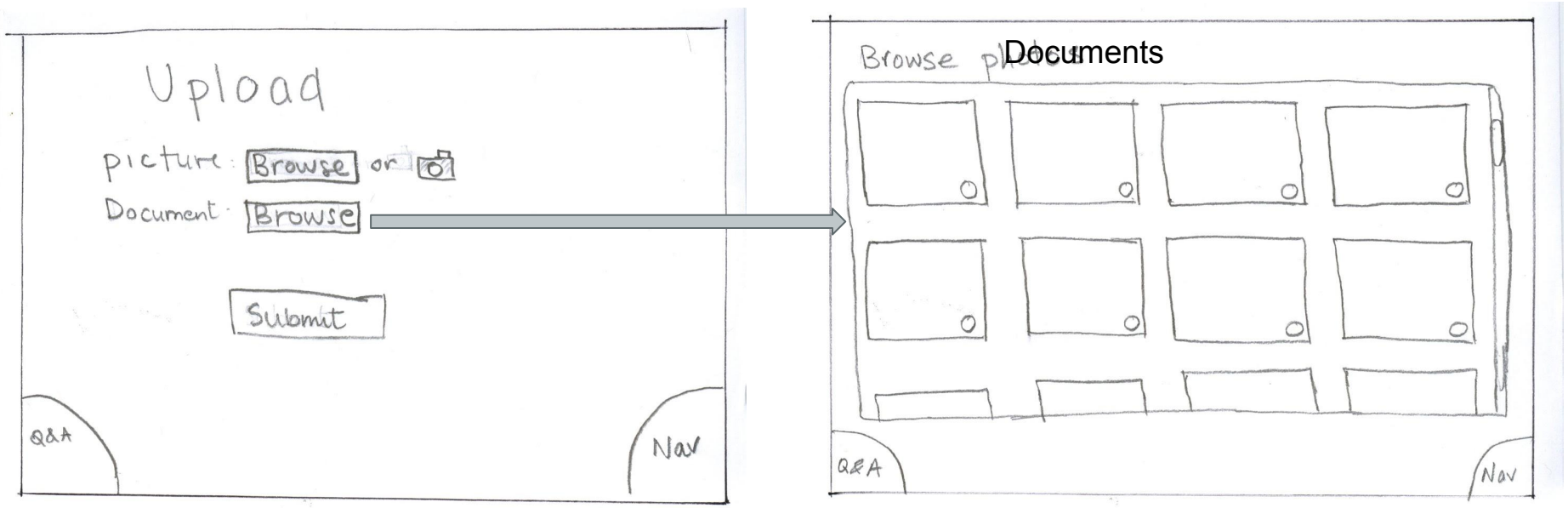
Press continue



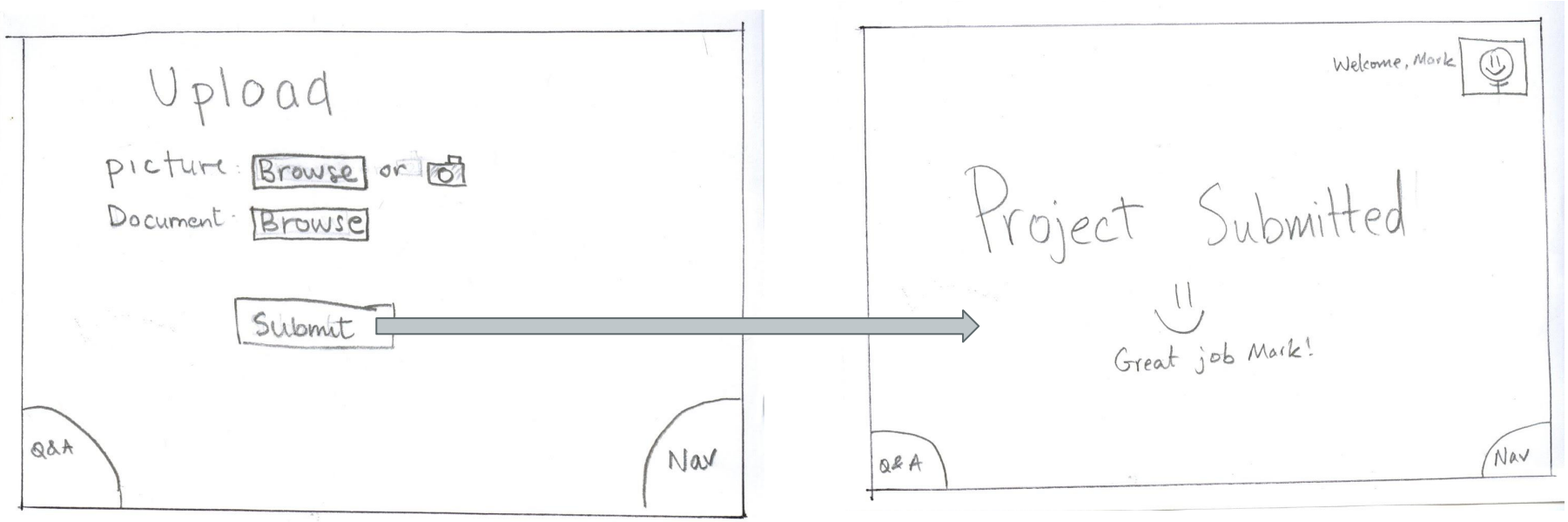
Press “browse”



Press the camera button



Press browse



Press “submit”

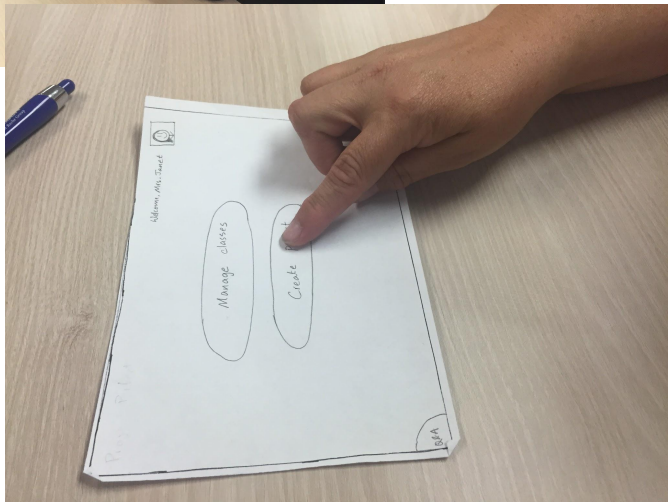
Testing

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

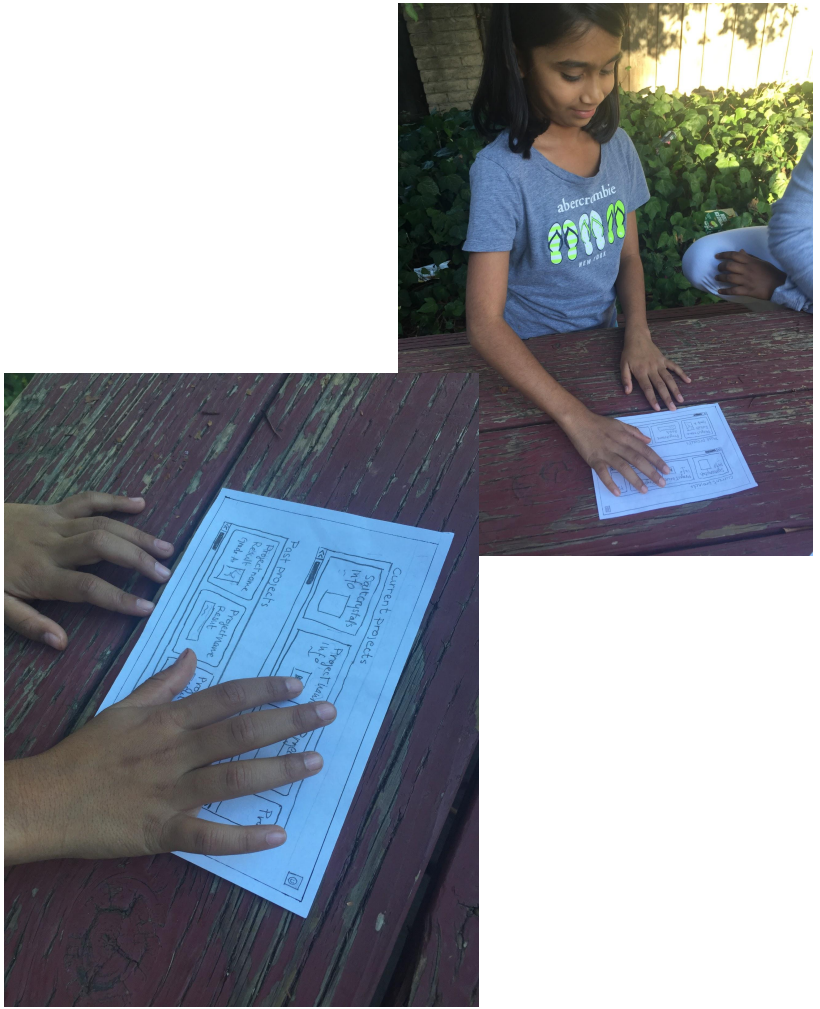
Test 1: Teacher

- 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



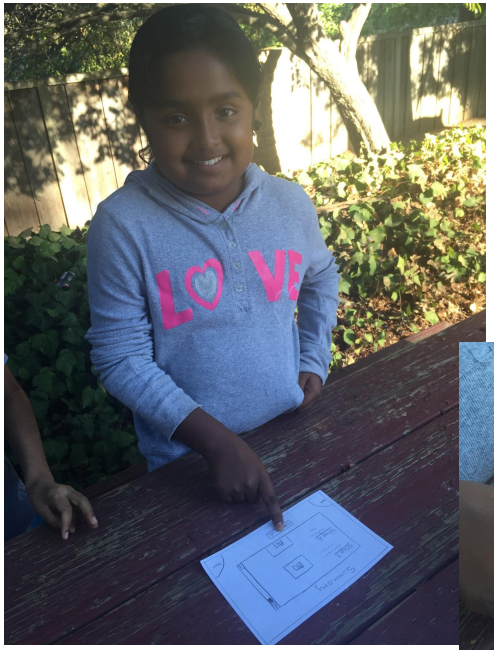
Test 2: Student 1

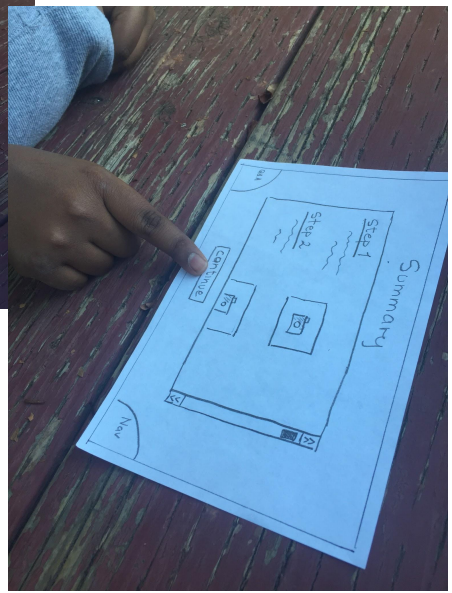
- Thought the landing page was intuitive
- Liked swiping between pages
- Didn’t find corner button obvious
- Felt like questions did not need to be private
- Wanted to answer Q/A questions



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 intitive
- 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!