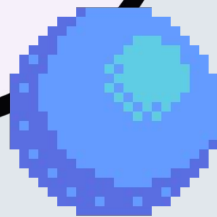


# High-Fidelity Prototype Checkpoint



David Castro, Leyth Toubassy, Marie  
Chu, Becky Miller

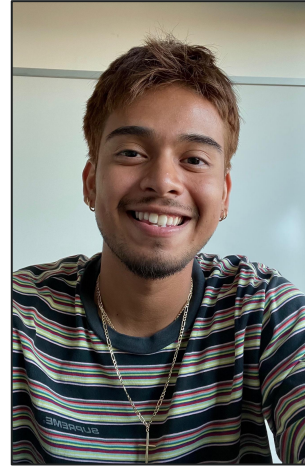
# Our Team



**Marie C.**  
Designer/Developer



**Leyth T.**  
Designer/Developer



**David C.**  
Designer



**Becky M.**  
Designer/Developer



**Learn art and build your  
community - one pixel at a time**



# Problem

It's difficult to continue learning art and creative expression beyond school because of perceived lack of skill and barriers to entry.

Art<sup>2</sup> 

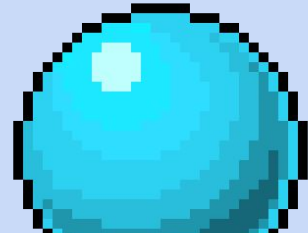
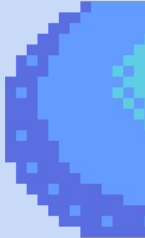
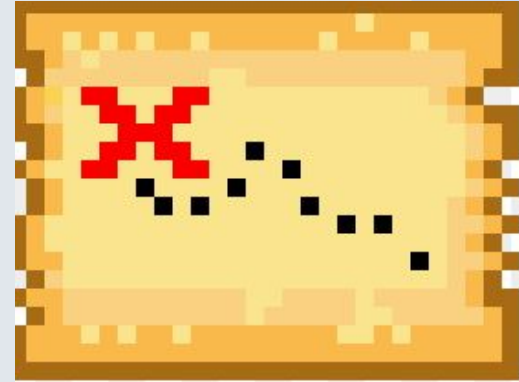
Collaborative, creative environment for users to learn pixel art on the go.





# Presentation Roadmap

<b>1.</b>	<b>Opening Slides</b>
<b>2.</b>	<b>Heuristic Evaluation Summary</b>
<b>3.</b>	<b>Product Revisions</b>
<b>4.</b>	<b>Prototype Implementation Status</b>
<b>5.</b>	<b>Live Demo</b>



The slide features a light blue background with four decorative spheres. Two are cyan with a white highlight, and two are blue with a cyan highlight. They are positioned in the corners: top-left, top-right, and bottom-right. A small white L-shaped mark is in the bottom-left corner.

# Heuristic Eval Summary



**15 Severity 3 / 4 Violations**

**28 Severity 1 / 2 Violations**

Our evaluators appreciated the minimalistic design, but thought the menu based navigation hid too many features, was unclear, and difficult to use. We also received feedback indicating that we should place more emphasis and focus on the collaboration and messaging elements of the app.

There were also a number of low severity recommendations regarding confirmation messages and pop ups.

# High Severity

1. **Toolbar arrow:** arrow direction should flip when toolbar deployed
2. **Pencil vs Bucket:** no difference between pencil and bucket
3. **Message input size:** increase size of message box for sharing
4. **Blank collaboration:** allow collaboration on a blank canvas
5. **Sharing mis-click:** option to deselect friends when sharing
6. **Artwork icon size:** icons on collaborate page too small
7. **Sharing clarity:** "1 friend selected" text should be bigger
8. **Discard Drafts:** no option to discard unwanted art
9. **Visibility of Sharing:** unclear how to share
10. **Home page carousel:** unclear what the carousel on the home page is
11. **Message collaborators:** unclear how to message collaborators
12. **Confusing canvas tools:** unclear how to use tools on canvas
13. **Navigation:** navigation through menus is difficult
14. **Save button:** include a save function on the canvas page
15. **Message notification:** difficult to access messages



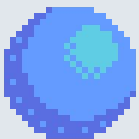
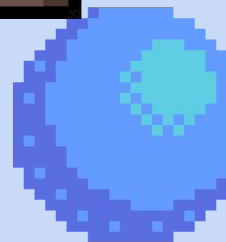
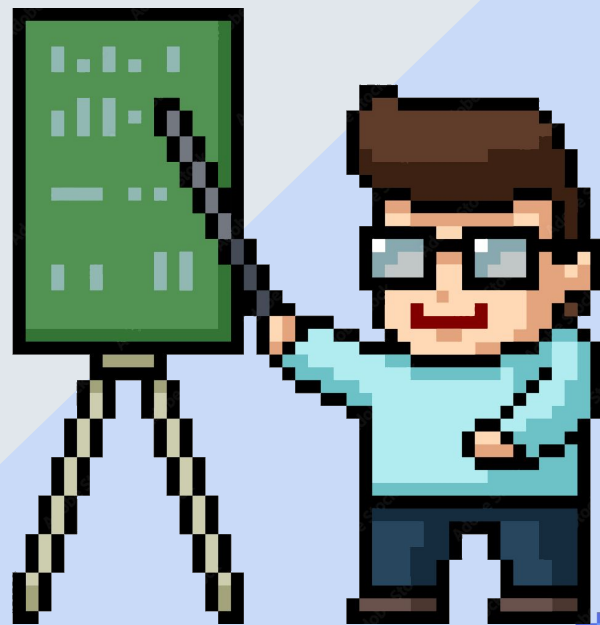
# High Severity

1. **Toolbar arrow:** ~~arrow direction should flip when toolbar deployed~~
2. **Pencil vs Bucket:** no difference between pencil and bucket
3. **Message input size:** increase size of message box for sharing
4. **Blank collaboration:** allow collaboration on a blank canvas
5. **Sharing mis-click:** option to deselect friends when sharing
6. **Artwork icon size:** icons on collaborate page too small
7. **Sharing clarity:** "1 friend selected" text should be bigger
8. **Discard Drafts:** no option to discard unwanted art
9. **Visibility of Sharing:** unclear how to share
10. **Home page carousel:** unclear what the carousel on the home page is
11. **Message collaborators:** unclear how to message collaborators
12. **Confusing canvas tools:** unclear how to use tools on canvas
13. **Navigation:** navigation through menus is difficult
14. **Save button:** include a save function on the canvas page
15. **Message notification:** difficult to access messages

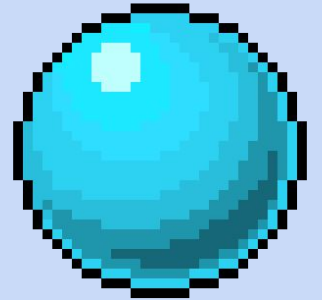
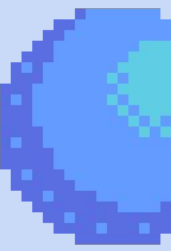
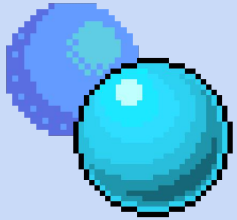


# Tutorial

- Video walkthrough of key app features
- Prompted when app is first opened
- Accessible throughout lifetime of the app
- Focuses on how to find tools, how to navigate to lessons

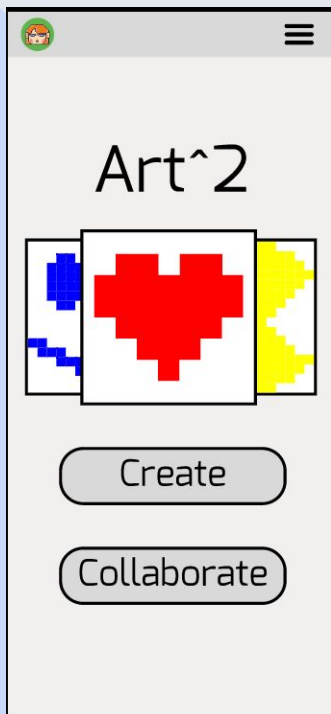


# Product Revisions

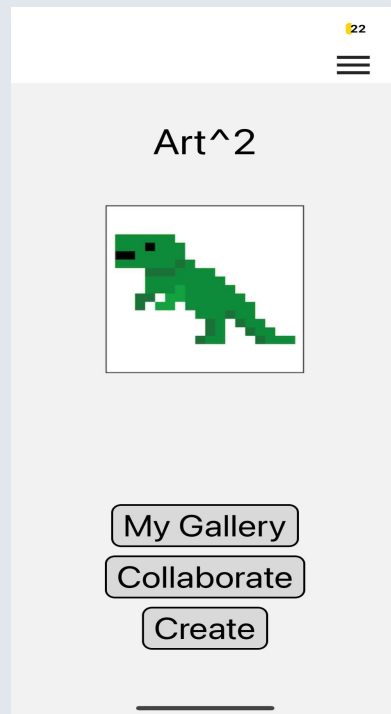


# Home

Before



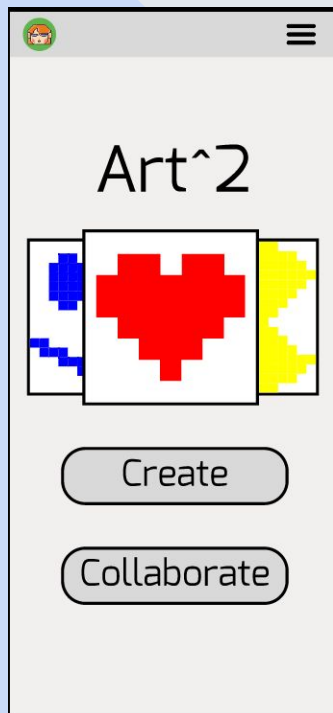
After



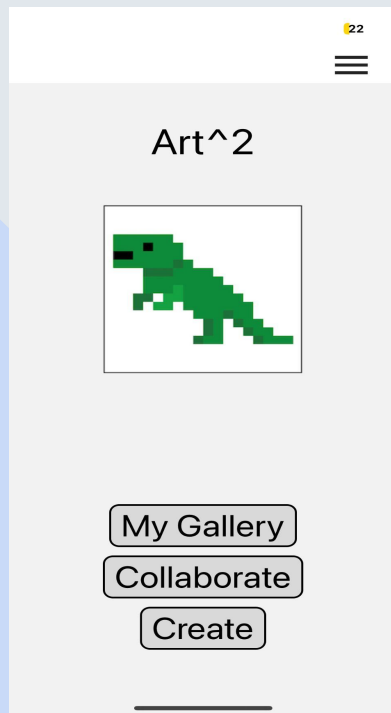


# Home

Before



After



# Rationale

10. **Home page carousel:** unclear what the carousel on the home page is

General feedback: things are too hidden in the menus

- Keeps focus on user's work
- More visibility of primary actions

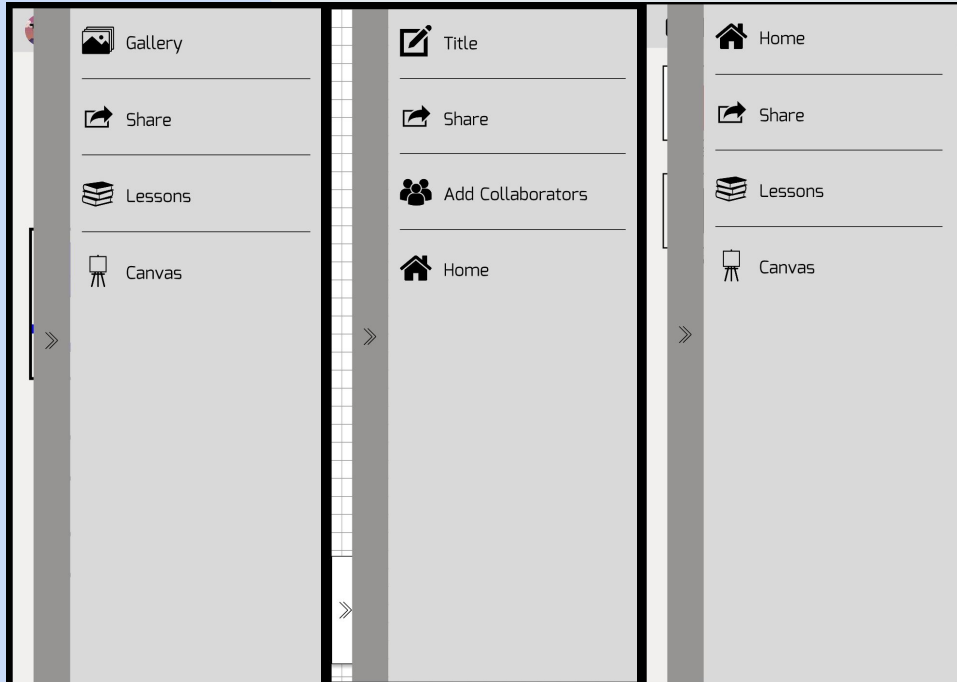




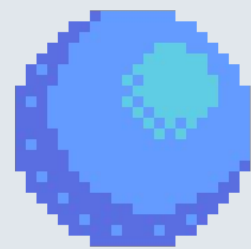
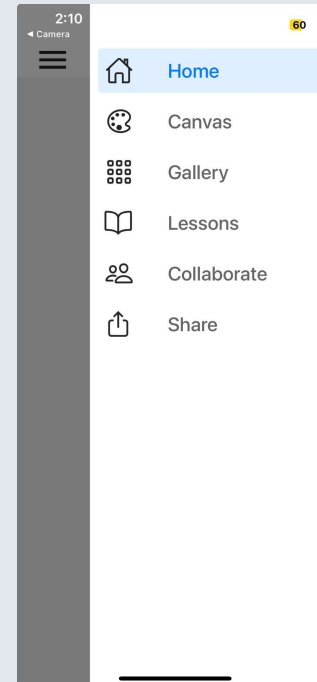
# Navigation Menu



## Before



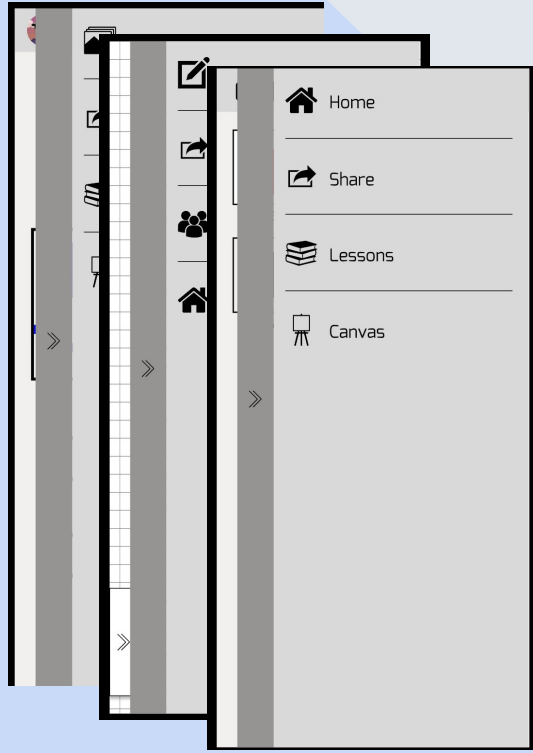
## After



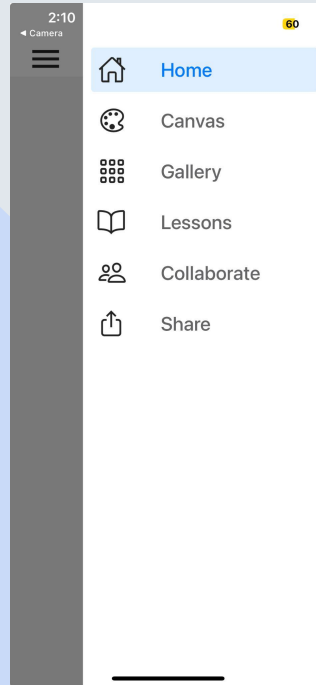


# Navigation Menu

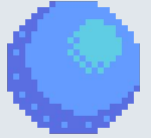
Before



After



# Rationale



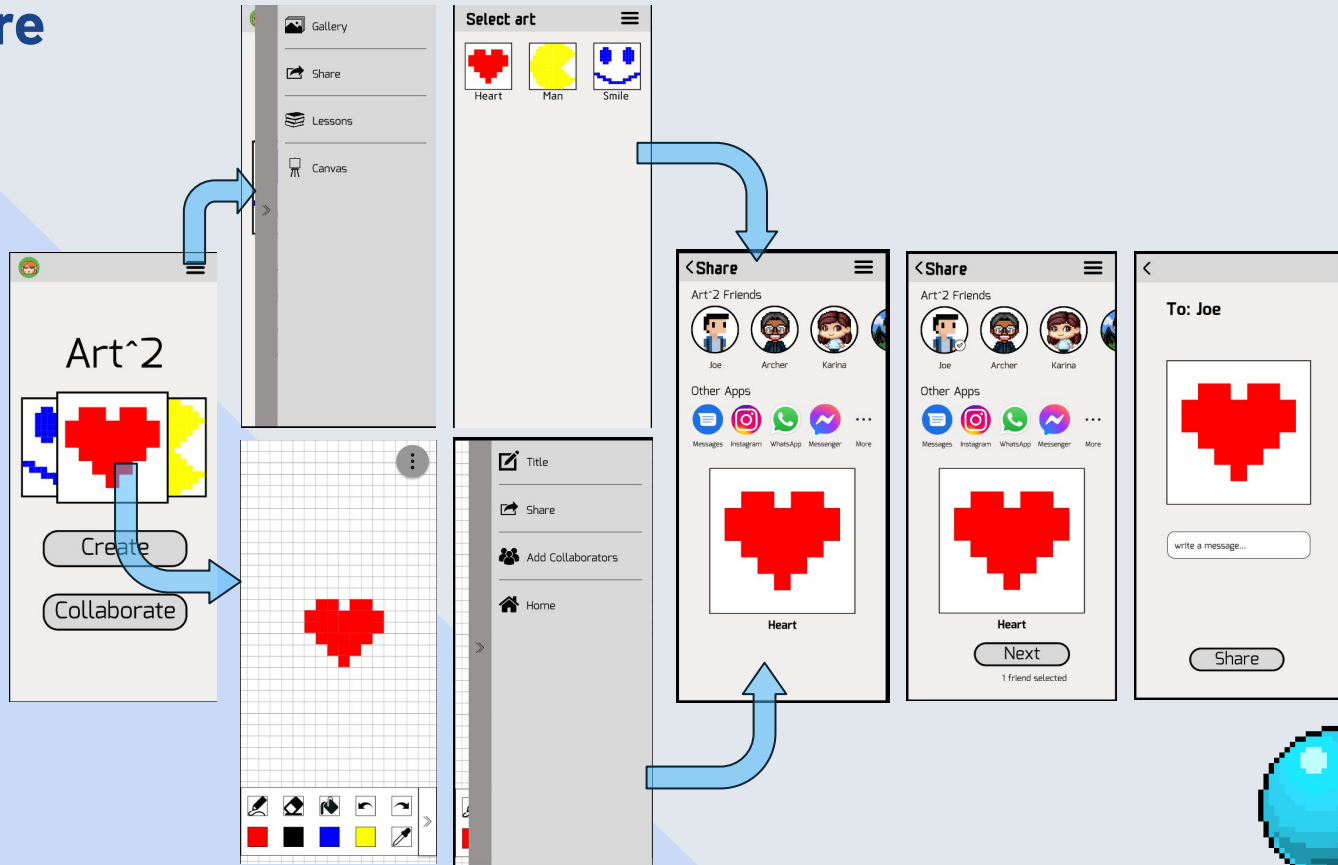
13. **Navigation:** navigation through menus is difficult

General feedback: inconsistency of menu is confusing  
finding features in menu inconvenient

- Same menu anywhere there is a hamburger menu
- Many features duplicated out of menu system

# Share/Collaborate

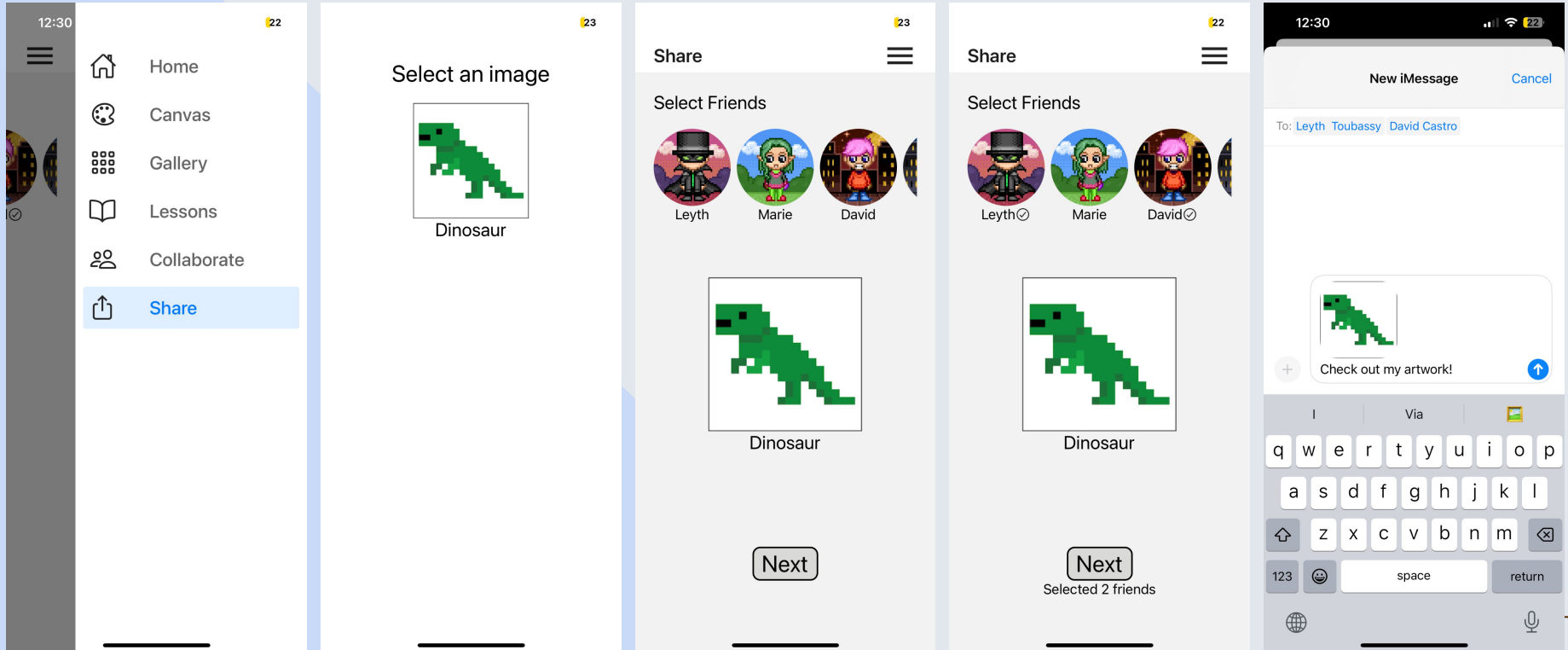
Before





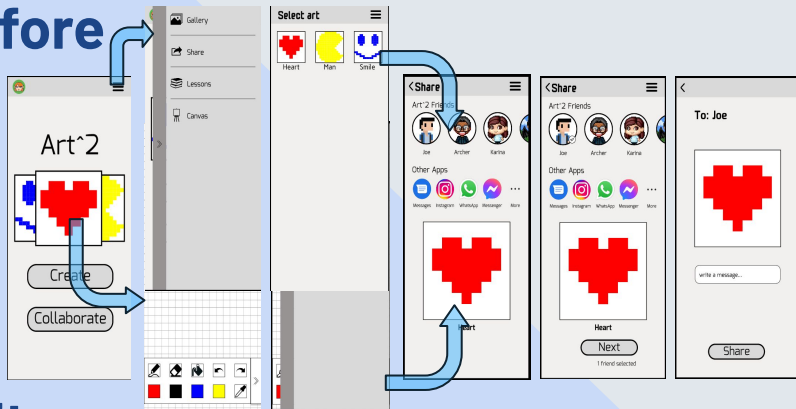
# Share/Collaborate

After

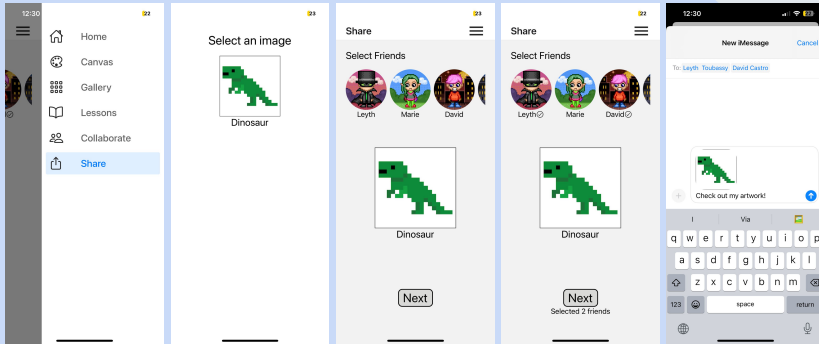


# Share/ Collaborate

Before



After



# Rationale

3-7. **Share/collaborate flow:** message size, blank canvas, unselect, icon size, text size

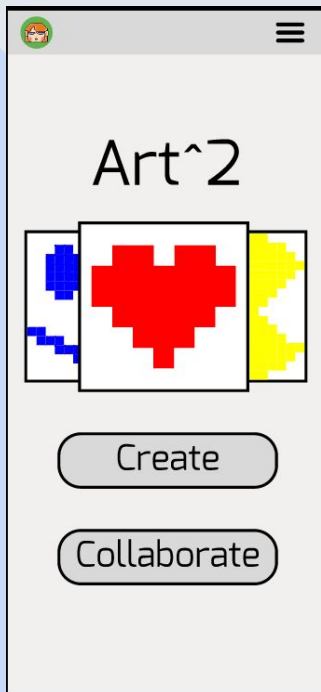
Implementation considerations: simpler to implement

- Simplified workflow
- Improved aesthetics

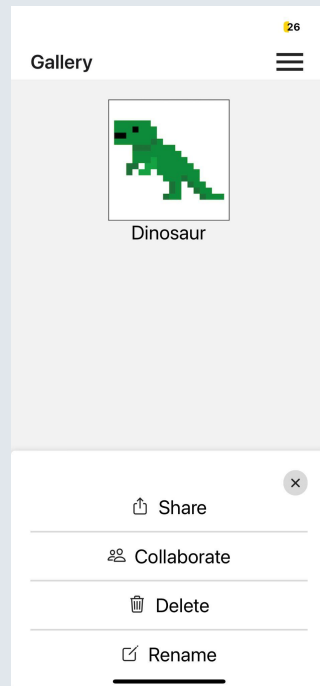


# Gallery

Before



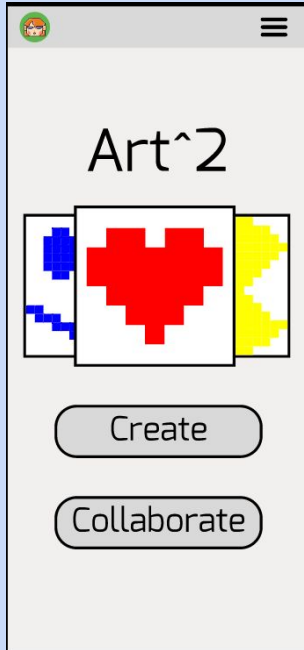
After



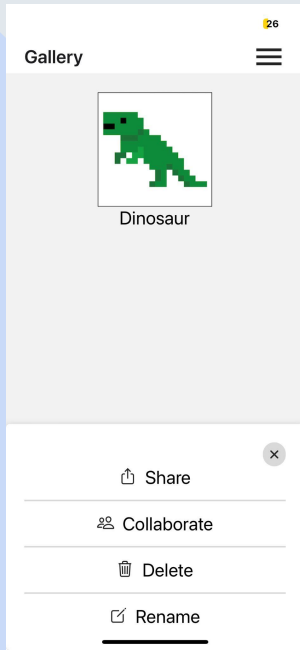
# Gallery

# Rationale

## Before



## After



8. **Discard Drafts:** no option to discard unwanted art

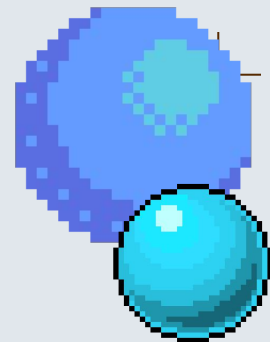
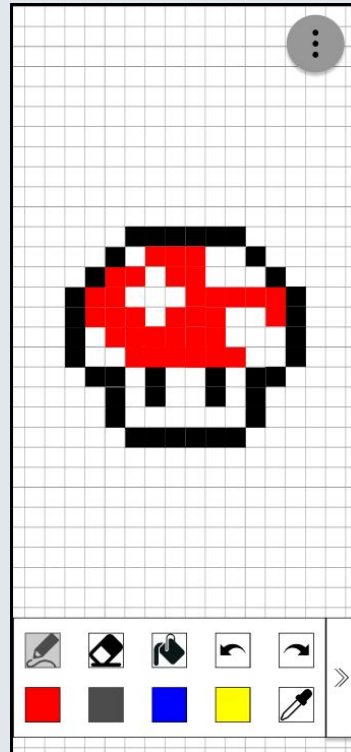
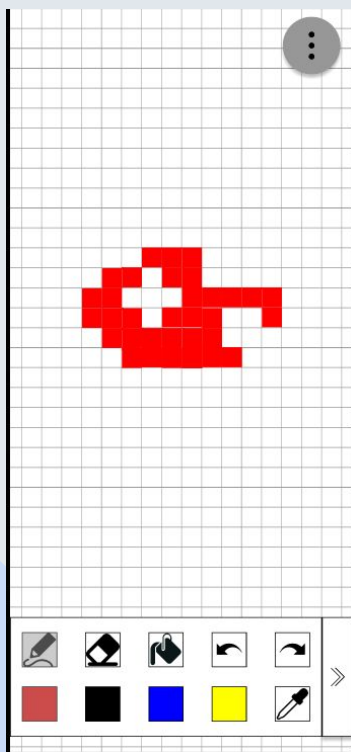
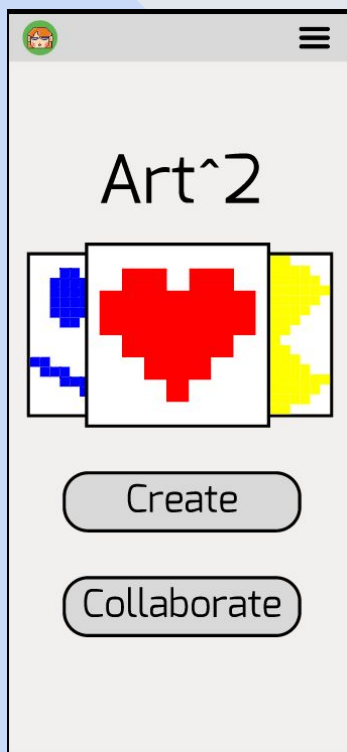
9. **Visibility of Sharing:** unclear how to share

10. **Home page carousel:** unclear what the carousel on the home page is

- Centralized place to view user's art
- All actions relating to the user's artwork accessible in one place

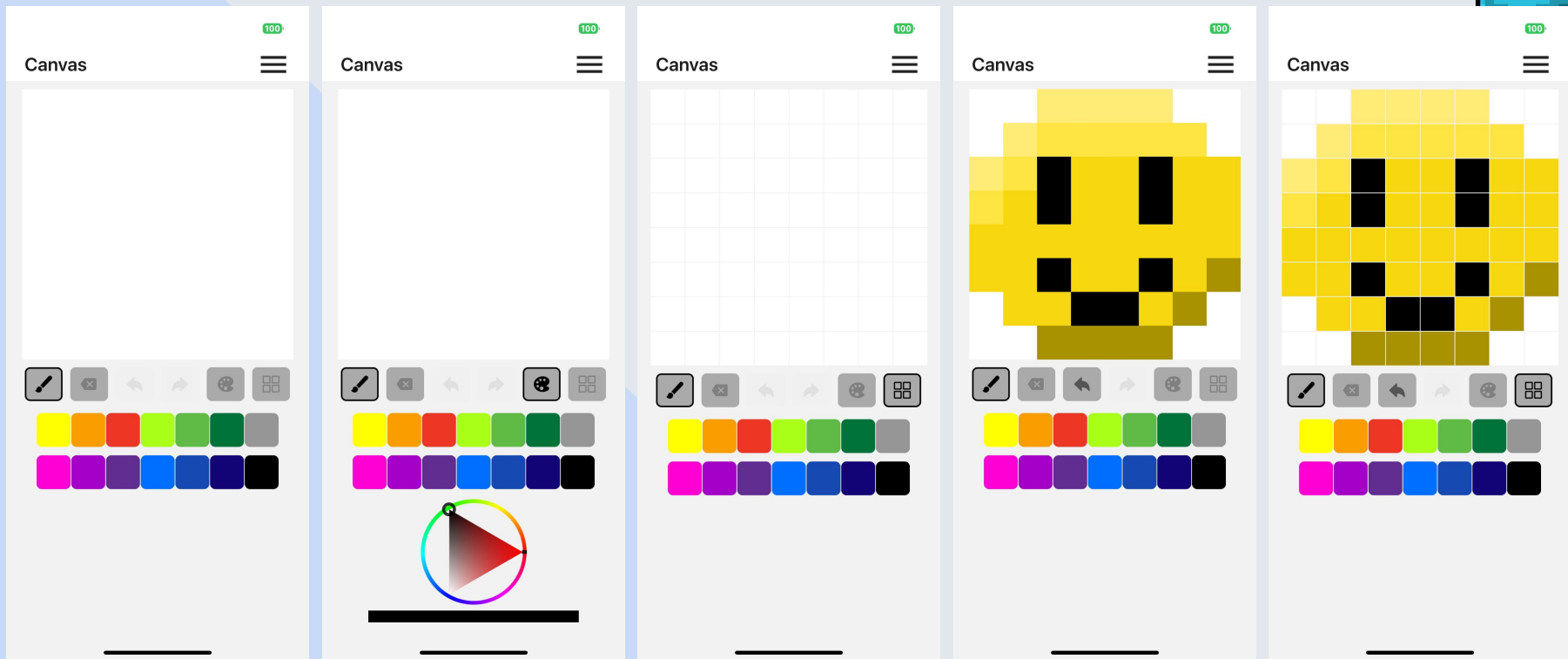
# Canvas

Before



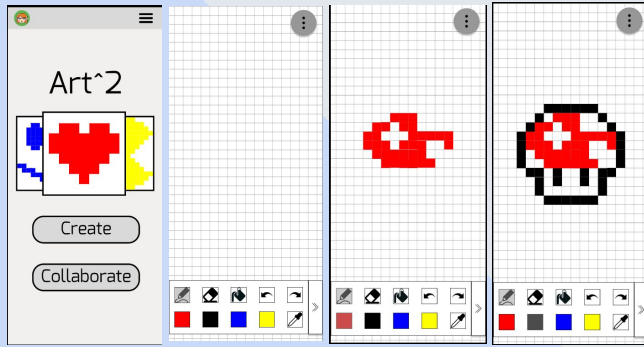
# Canvas

After



# Canvas

Before



# Rationale

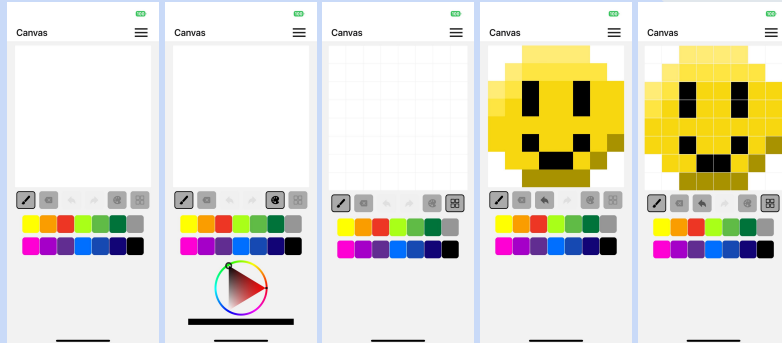
2. **Pencil vs Bucket:** no difference between pencil and bucket

12. **Confusing canvas tools:** unclear how to use tools on canvas

General Feedback: canvas tools were unclear and not beginner friendly

- Simplified canvas interface
- All tools immediately visible

After



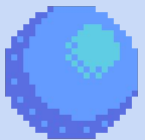
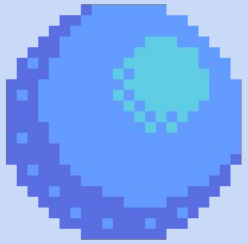
# Progress toward usability goals

- Simplified tasks to make it less error prone/more **robust**
- Still interactive to keep the app **fun**
- On track



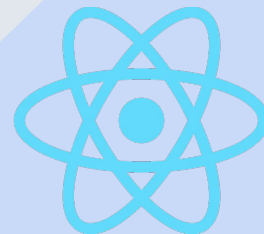
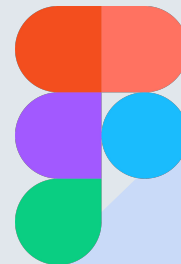


# Prototype Implementation Status



# Tools used

- **React Native**
- **Expo**
- **VS Code**
- **Figma**
- **GitHub**



# Tasks

**Task 1 (Simple) : Create pixel art piece**

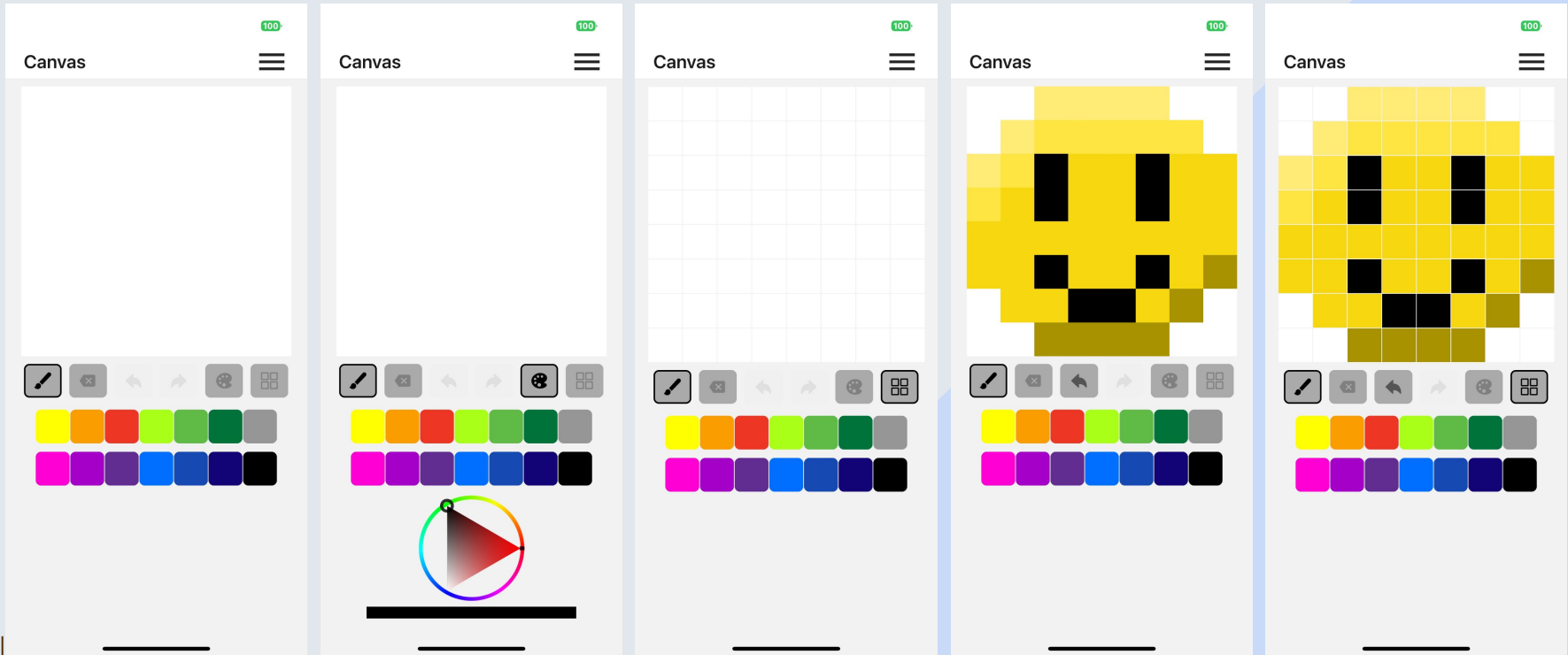
**Task 2 (Moderate) : Share a pixel art piece**

**Task 3 (Complex) : Collaborate on a pixel artwork**



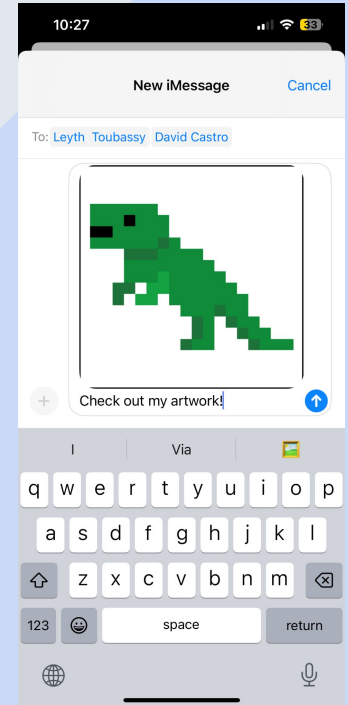
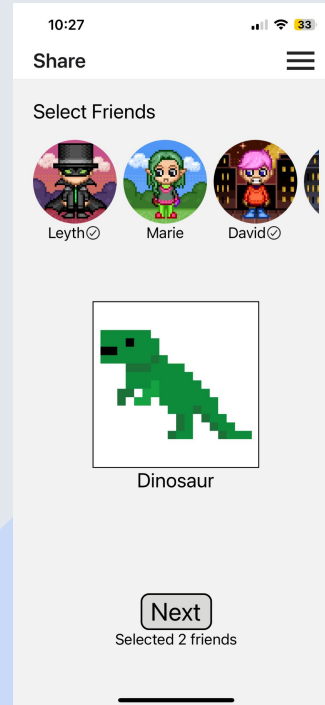
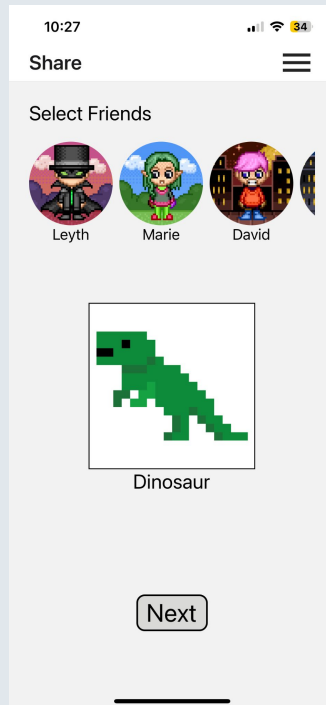
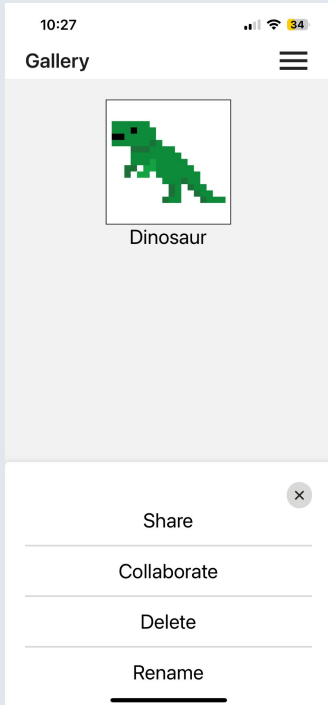
# Implemented Features

## Task 1: Create a pixel art piece



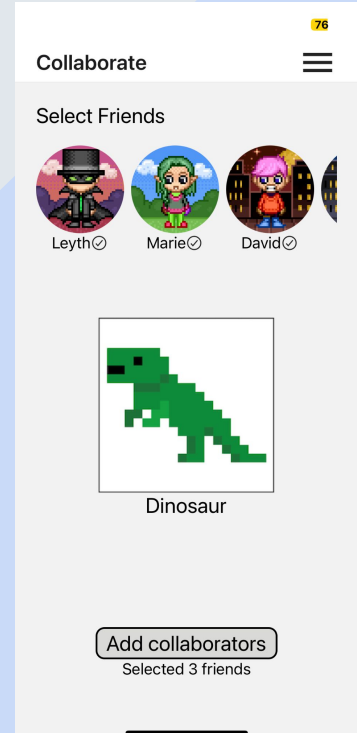
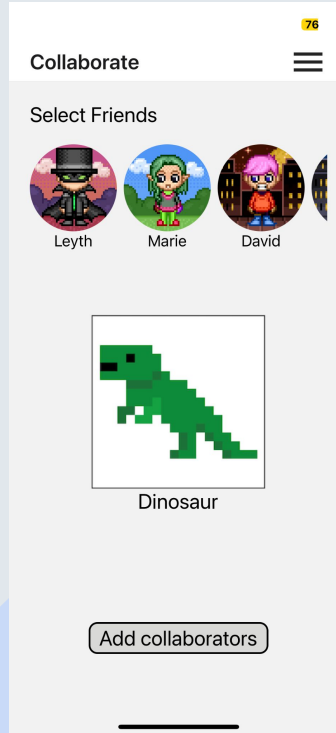
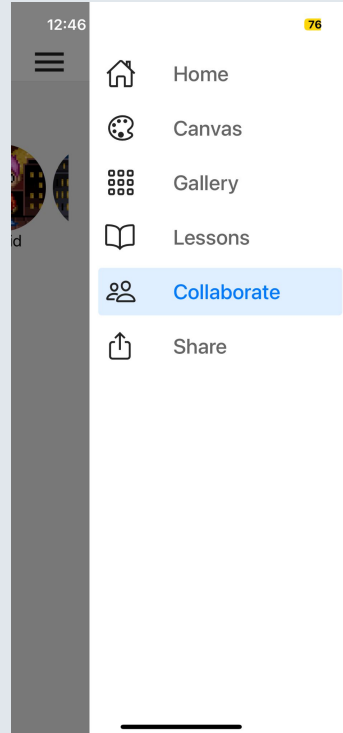
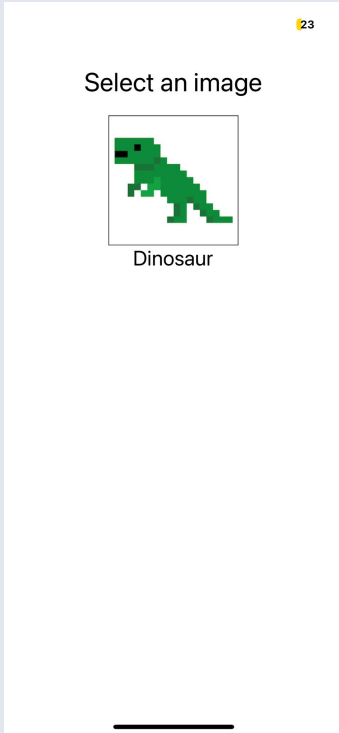
# Implemented Features

## Task 2: Share a pixel art piece



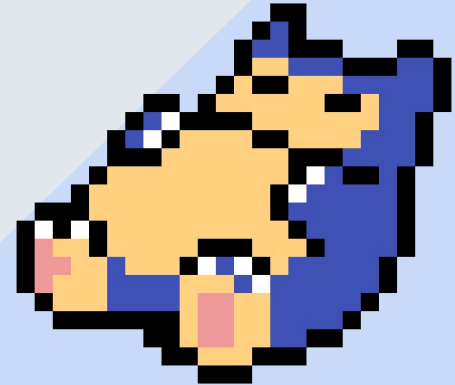
# Implemented Features

## Task 3: Collaborate on a pixel art piece



# Features to be Implemented ...

- **Gallery page:** Delete artwork and rename artwork
- **Lesson page:** embedded video lessons
- **Home page:** Collaborate button behavior
- **Canvas page:** Save, reopen, share and collaborate on your artwork
- **Collaboration:** simulated collaborator on canvas page, message collaborator
- **Walkthrough:** create video tutorial walkthrough
- **All pages:** styling and fonts



# Wizard of Oz & Hardcoded

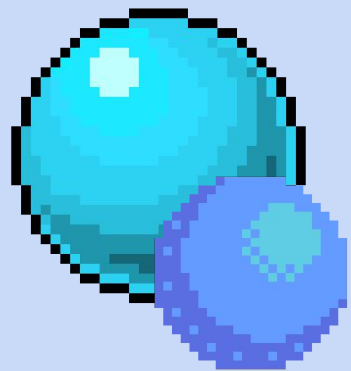
- User already has some artwork populated when starting the app
- Hardcoded friends with their numbers
- Collaboration will be hard coded





# Plan to finish





Live Demo

