

STANFORD CS147: ASSIGNMENT 06

Traverse

Interactive Medium-Fi Prototype

Katherine W., Michelle B., Samuel T., Saniya M.



Team Members



Katherine W.

M.S. COMPUTER SCIENCE (HCI)
B.S. SYMBOLIC SYSTEMS (HAI)



Michelle B.

B.S. SYMBOLIC SYSTEMS
(DMAR)



Samuel T.

B.S. COMPUTER SCIENCE (AI)



Saniya M.

B.A. ECONOMICS
M.S. COMPUTER SCIENCE (HCI)

Agenda

Introduction

About Us, Problem/Solution

Values in Design

Values, Tensions

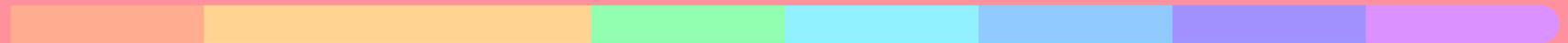
Tasks

Revised Tasks, Revised Flows

Medium-Fi Prototype

Demo, Task Flows, Implementation

Introduction





Introduction

About Us

Traverse

EXPLORE. CONNECT. CREATE.

Traverse: where creatives find wonder in their artistic experiences through open-ended exploration and reflection.

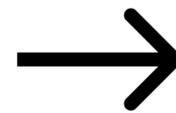
Introduction

Problem/Solution

Problem

As digital spaces for arts engagement prioritize consumption over emotional depth, **casual creatives** struggle to find:

- **Trust** in new communities
- **Fulfillment** and **wonder** when exploring the artistic world



Solution

An AI-powered platform for users to **explore** the connections between artworks and add their **reflections** – deepening artistic engagement and jumpstarting curiosity

Values in Design



Values in Design

Values in Design

1

Curiosity

Encouraging open-ended exploration of art without pressure to perform or produce.

2

Authenticity

Building a safe, genuine environment where users feel comfortable sharing their art.

3

Accessibility

Ensuring that everyone, casual museumgoers to hobbyists, can explore and share art.

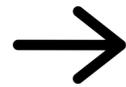
Values in Design

Design Expression

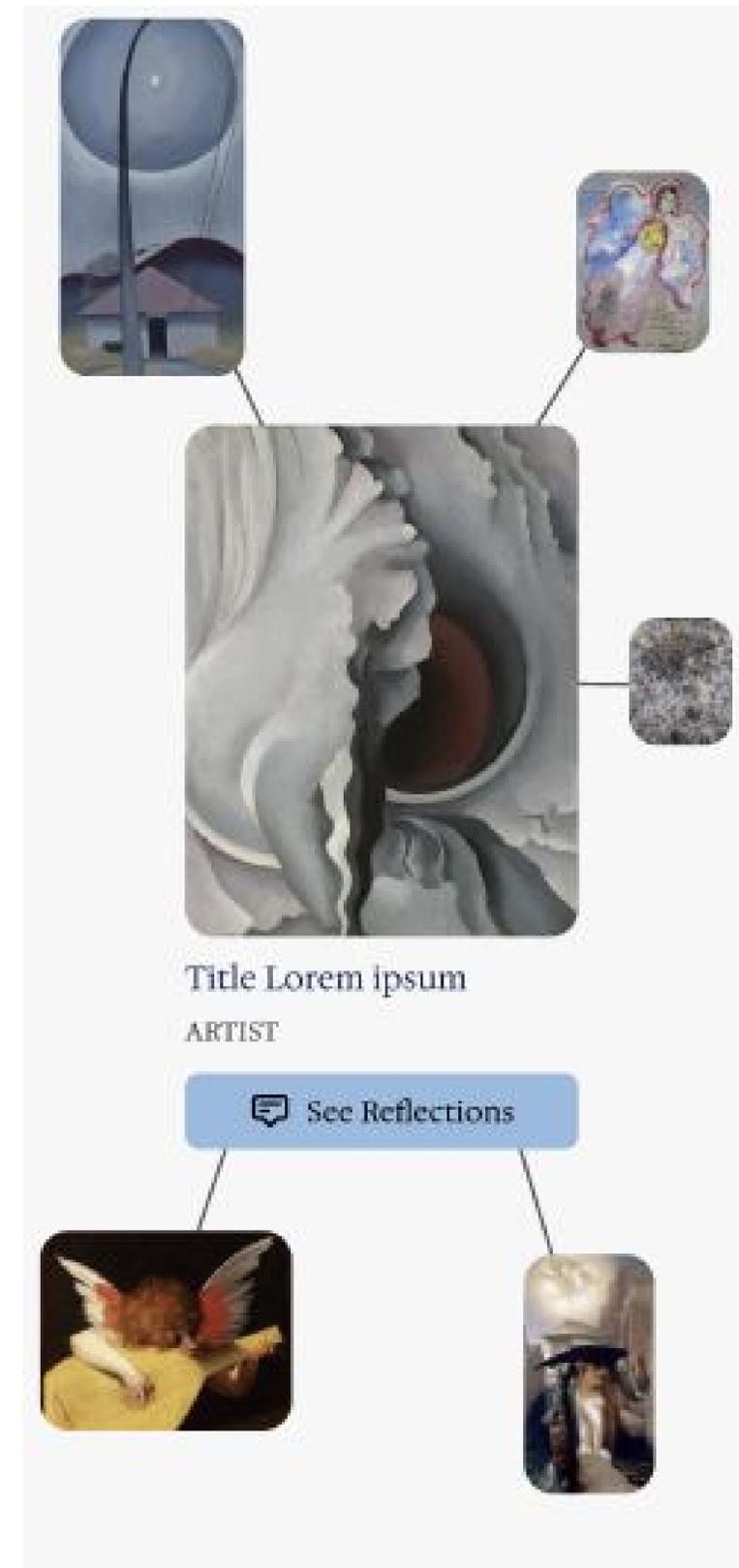
1

Curiosity

Encouraging open-ended exploration of art without pressure to perform or produce.



Interactive graph of interconnected artworks that rewards curiosity instead of likes or follows.



Values in Design

Design Expression

2

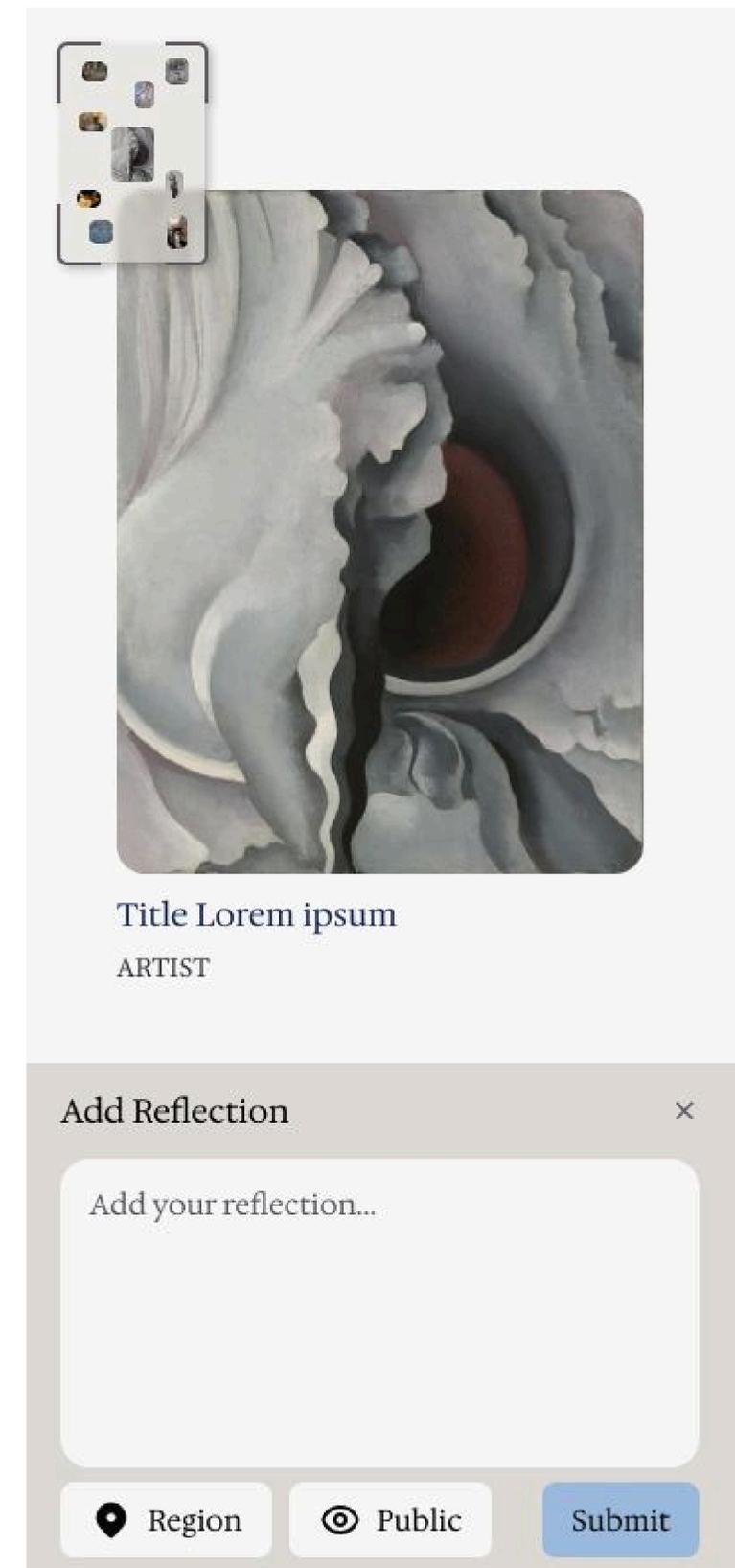
Authenticity

Building a safe, genuine environment where users feel comfortable reflecting on art.



Optional public/private reflections.

Clear artist attribution and data sourcing for all works.



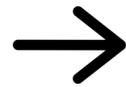
Values in Design

Design Expression

3

Accessibility

Ensuring that everyone, casual museumgoers to hobbyists, can explore and share art.



Mobile-first interface that supports quick browsing.

AI suggestions surface diverse, lesser-known works.

Welcome to Traverse.
Drag and zoom to explore.

Start

Values in Design

Value Tensions

Curiosity



Curation vs. Openness

Too much curation can gatekeep; too little can overwhelm.

Values in Design

Value Tensions

Authenticity



Visibility vs. Privacy

Artists want exposure, but users may fear judgment.

Tasks



Tasks

Old Tasks

1 Simple

Explore the Artwork Graph

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces
3. Viewing and adding reflections

2 Moderate

Journal

Engage further with works by adding personal visual annotations to your Journal; how does this piece inspire you?

3 Complex

Upload

Upload your own artwork to the platform.

Tasks

Tasks Revised

1 Simple

Explore the Artwork Graph

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces
3. Viewing and adding reflections



Changes: Focusing on just (1) and (2). Users' first interaction should center on curiosity and discovery, core to Traverse's mission of encouraging open-ended exploration.

2 Moderate

Journal

Engage further with works by adding personal visual annotations to your Journal; how does this piece inspire you?

3 Complex

Upload

Upload your own artwork to the platform.

Tasks

Tasks Revised

1 Simple

Explore the Artwork Graph

Traverse the graph by

1. Zooming in to view a work
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2 Moderate

Journal

Engage further with works by adding personal visual annotations to your Journal; how does this piece inspire you?

3 Complex

Upload

Upload your own artwork to the platform.



Changes: Combined the comment and journaling systems into a single reflection feature to simplify interaction. Reflections allows for private, public, and spatial comments.

Tasks

Tasks Revised

1

Explore the Artwork Graph

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces
3. Viewing and adding reflections

2

Journal

Engage further with works by adding personal visual annotations to your Journal; how does this piece inspire you?

3

Complex

Upload

Upload your own artwork to the platform.



Changes: Made this task more complex by requiring users to tag related works when uploading. This helps strengthen the network of connections and reduces cold-start issues.

Tasks

New Tasks

1 Simple

Explore the Artwork Graph

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces

2 Moderate

Reflections

Engage further with works by adding a reflection directly on an artwork by optionally selecting a region and leaving a public or private comment.

3 Complex

Upload

Add personal artwork to the platform and tag related works that inspired it.

Tasks

Usability Goals and Metrics

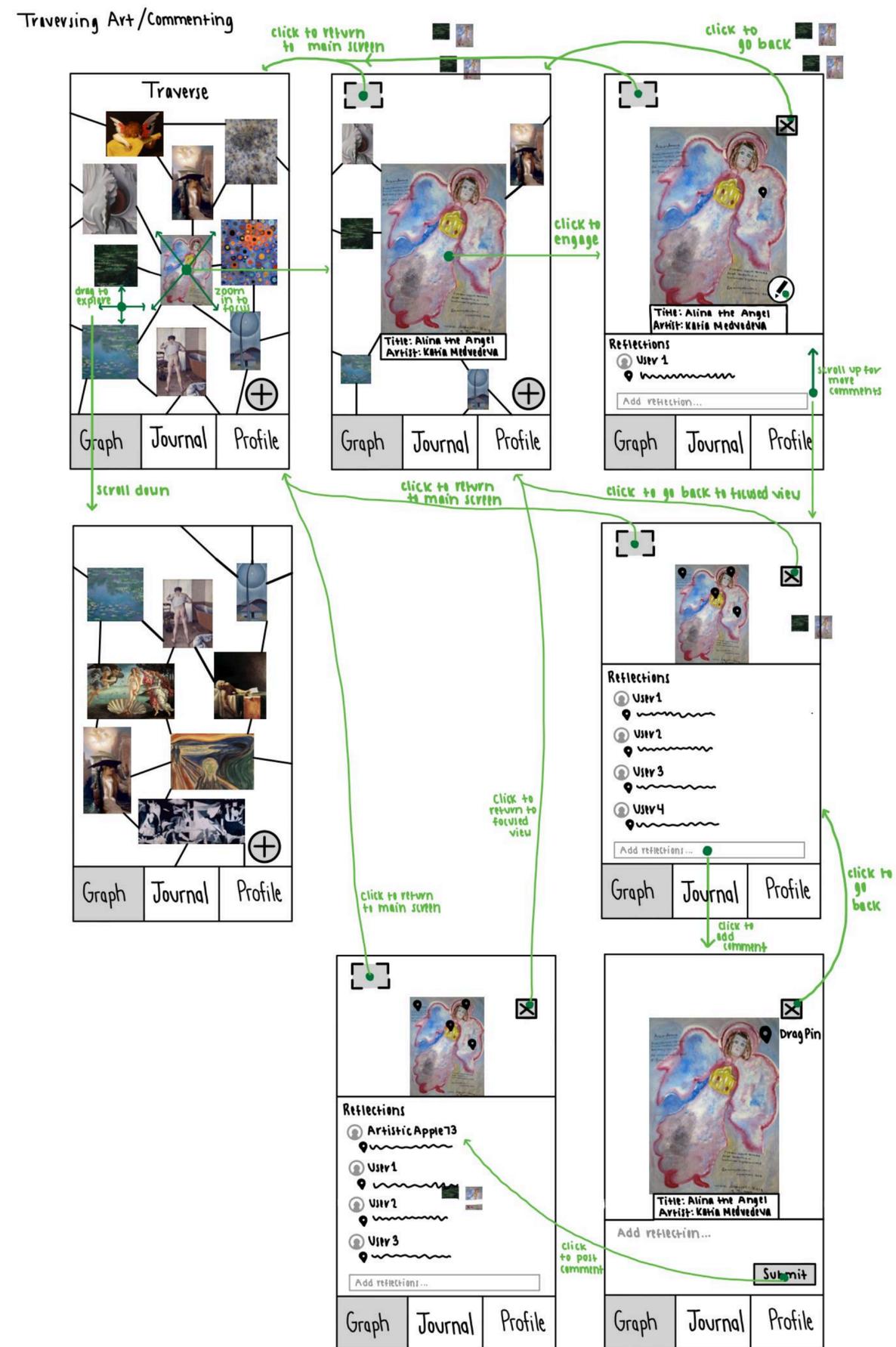
Goals	Measurement	Progress
Efficiency	Time to complete each task	<ul style="list-style-type: none">• Provide clear exit/back buttons• Unified home screen buttons with a navigation bar
Efficiency	Number of misclicks	<ul style="list-style-type: none">• Consolidated the commenting feature under “Graph” and annotating in “Journal” to just one “Reflections” section where you can post both private and public comments
Intuitive	Ease of use (scale of 1 to 7, with 1 being most intuitive)	<ul style="list-style-type: none">• Re-branded “Annotations” to “Reflections”, for both ease to understand and to encourage insight discussions
Satisfaction	Likelihood of actually installing the app (scale of 1 to 7, with 7 being very likely)	<ul style="list-style-type: none">• Included more home screen views to ensure a clearer experience of “traversing art”

Tasks

Old Simple Task Flow

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces
3. Viewing and adding reflections



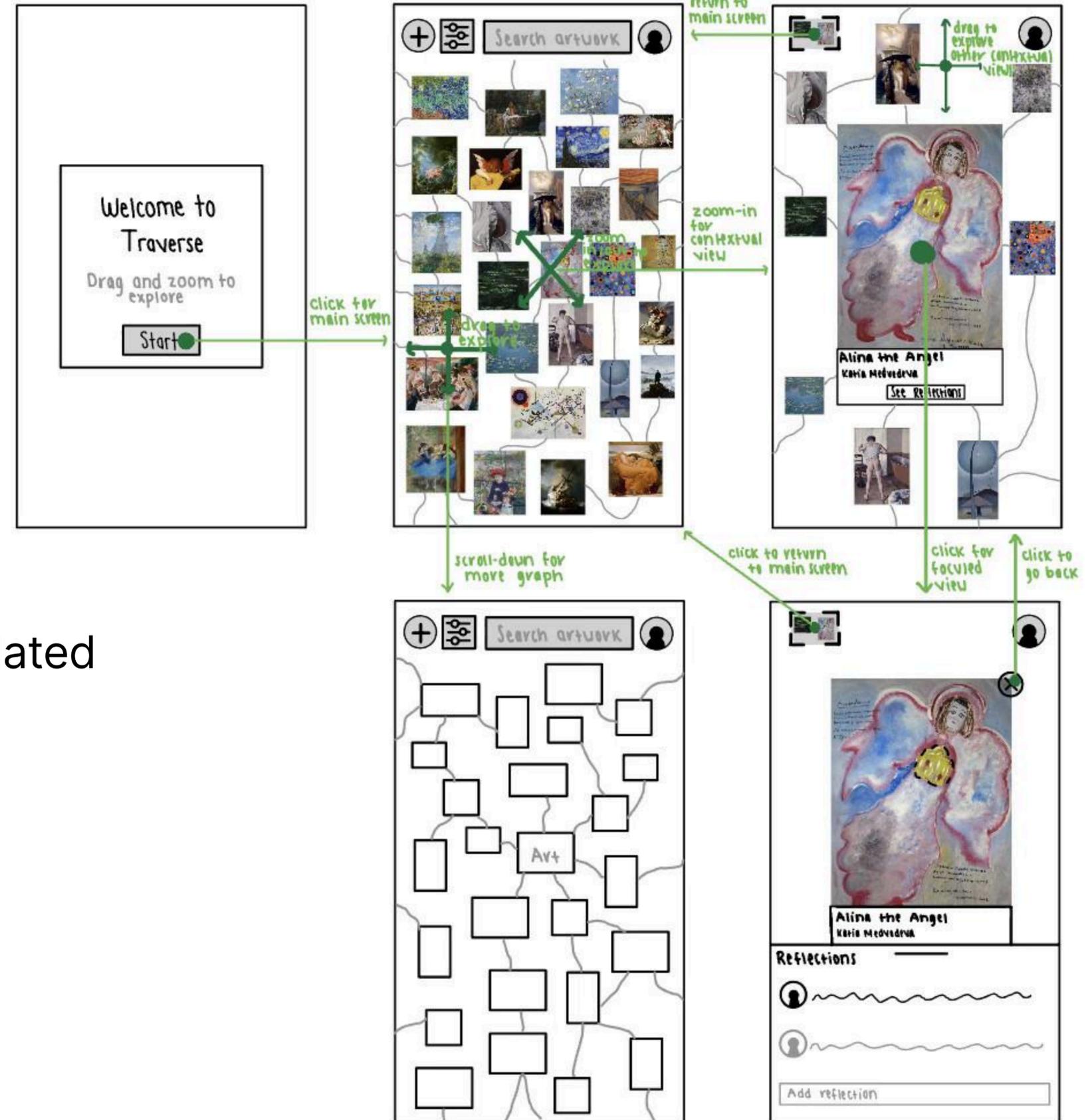
Tasks

New Simple Task Flow

Traverse the graph by

1. Zooming in to view a work
2. Dragging and exploring related pieces

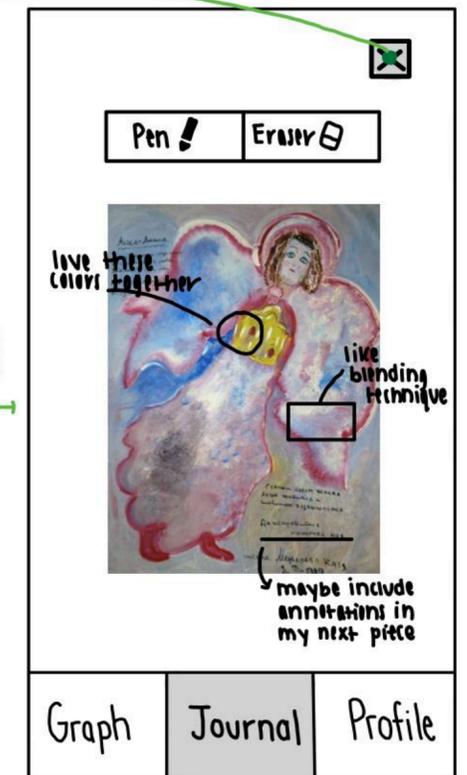
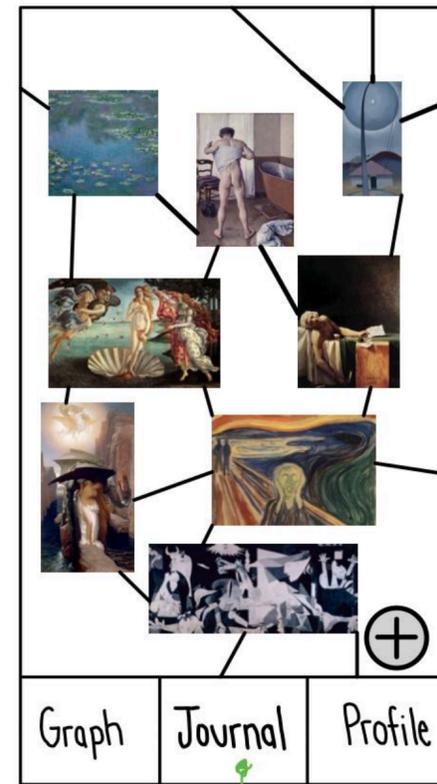
Traversing Art



Tasks

Old Moderate Task Flow

Engage further with works by adding personal visual annotations to your Journal; how does this piece inspire you?



click to exit

click to annotate

click to free
click to erase

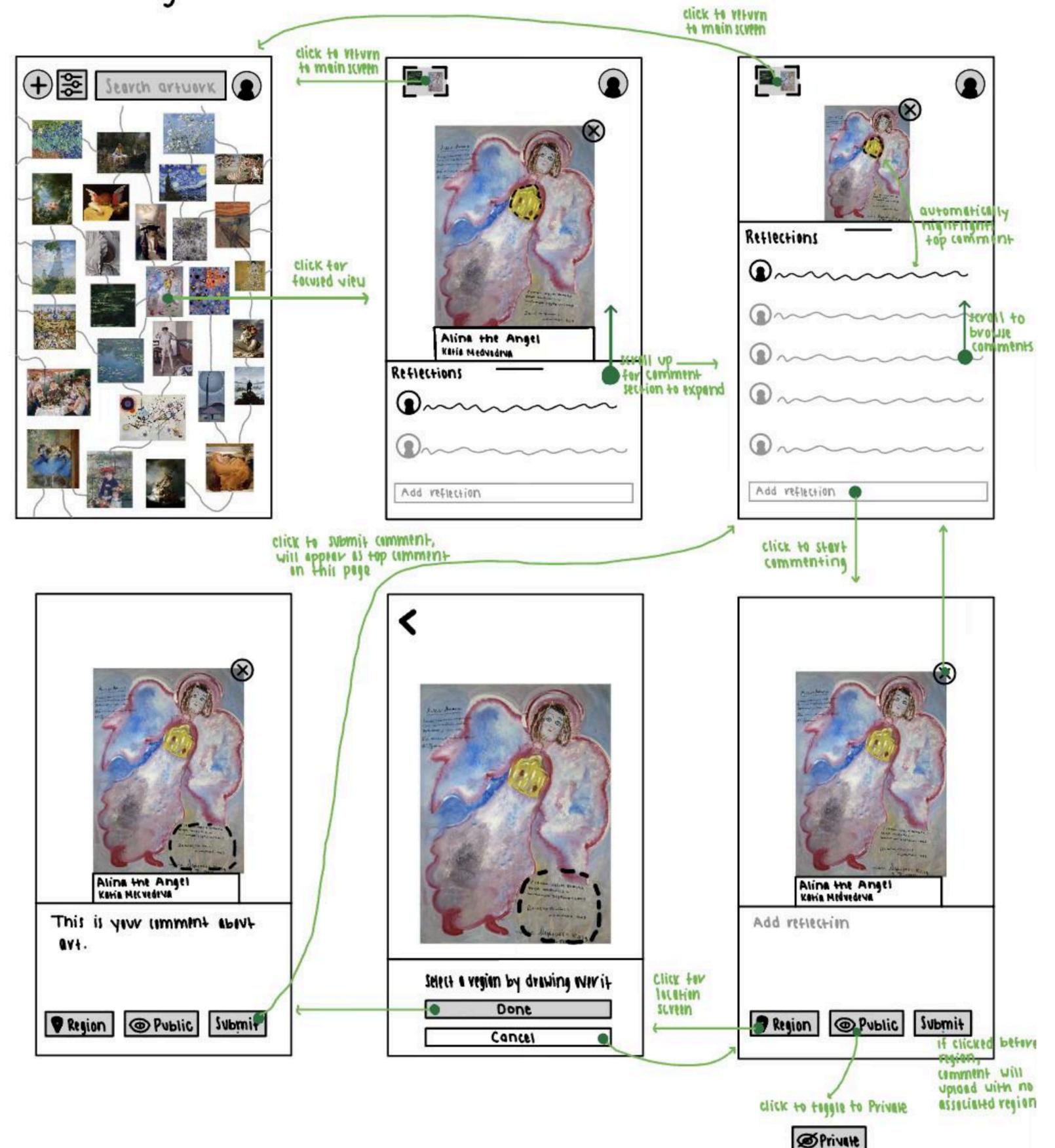
annotated version

Tasks

New Moderate Task Flow

Engage further with works by adding a reflection directly on an artwork by optionally selecting a region and leaving a public or private comment.

Commenting on Art

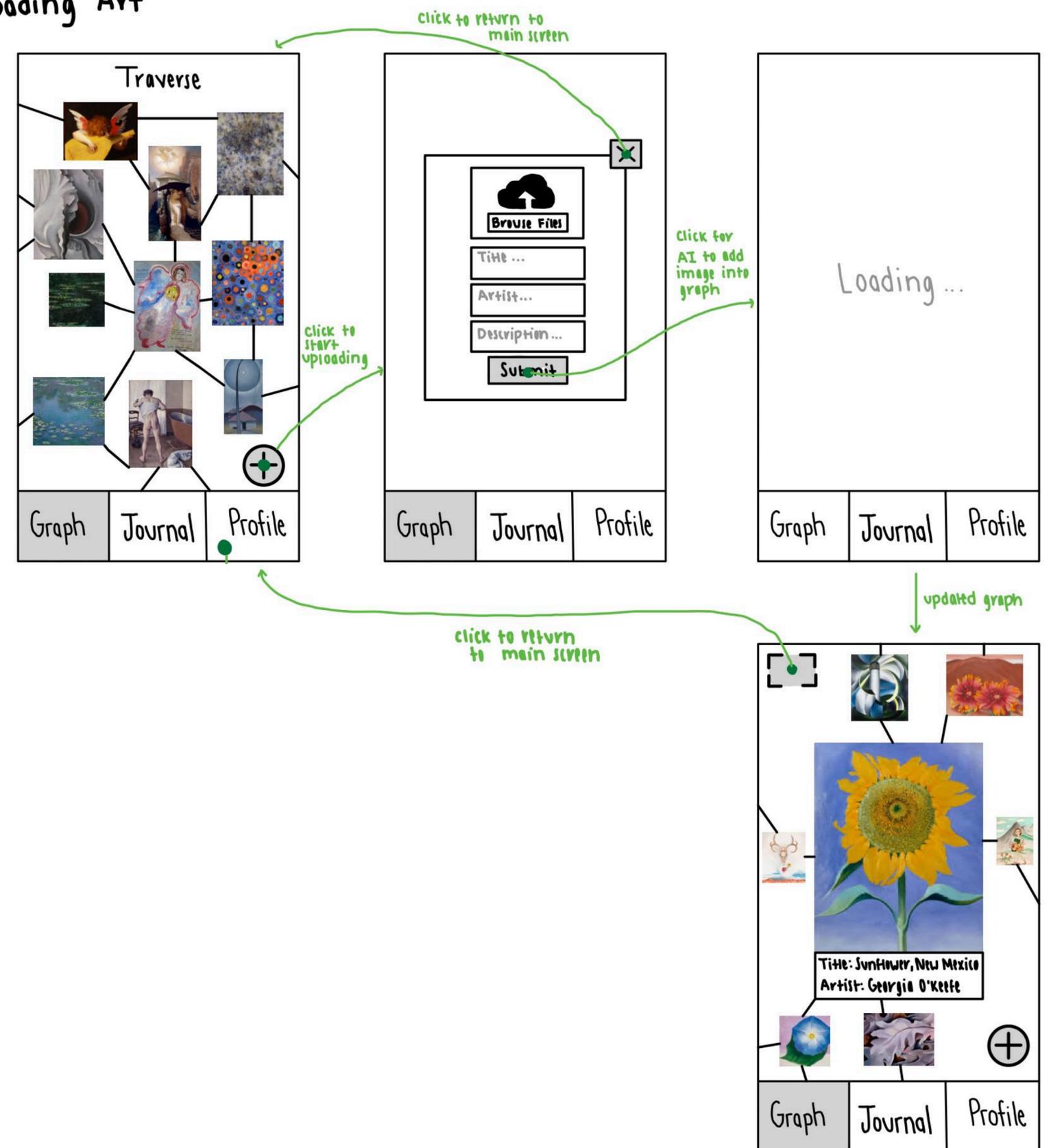


Tasks

Old Complex Task Flow

Add art to the platform that you see or create in your personal art experiences!

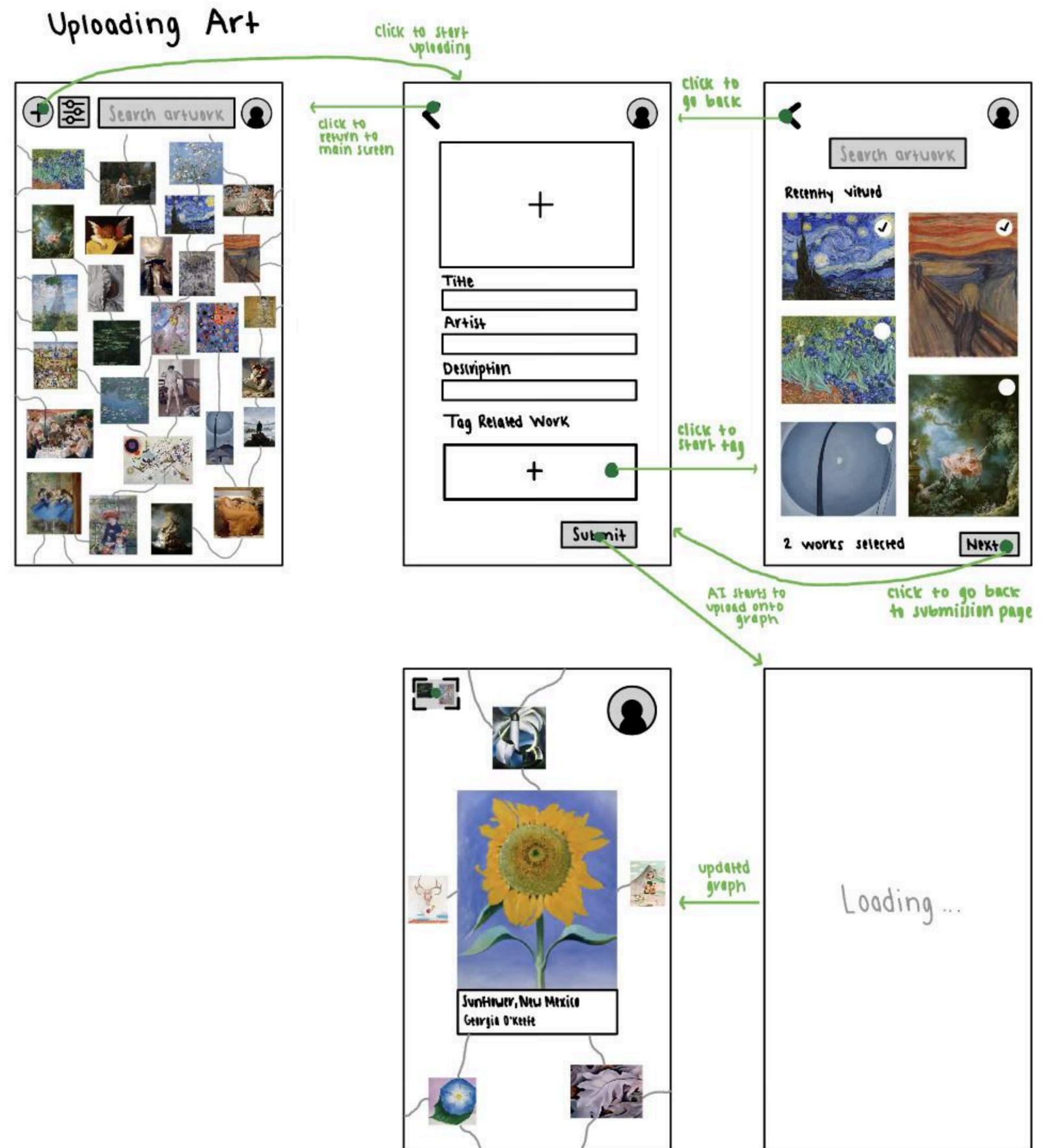
Uploading Art



Tasks

New Complex Task Flow

Add personal artwork to the platform and tag related works that inspired it.



Tasks

Major Changes

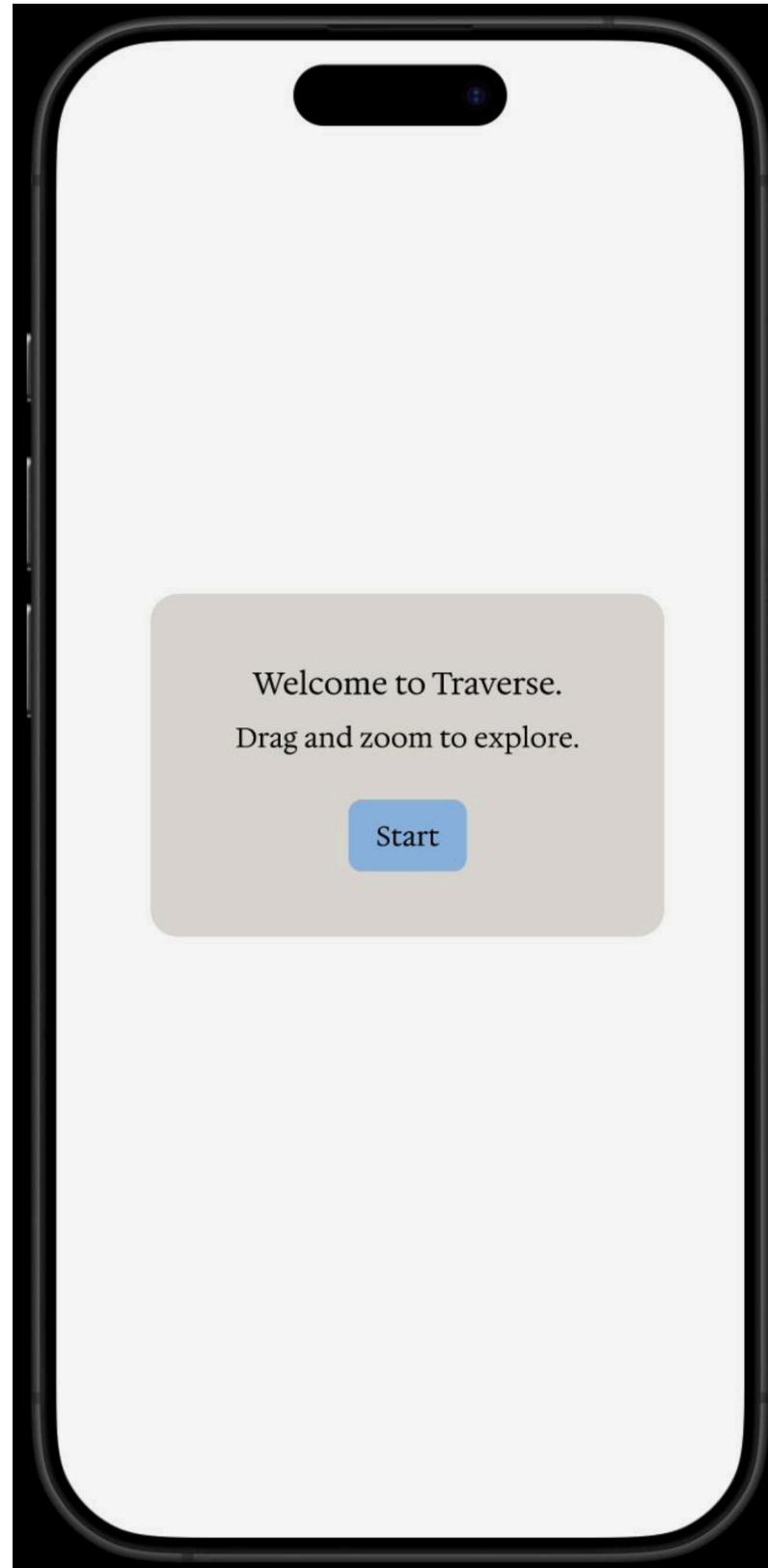
Change	Improving Usability	Rationale
Unified home screen buttons with a navigation bar	<ul style="list-style-type: none">• Simplifies navigation by consolidating actions (search, upload, profile) in one consistent location.• Reduces misclicks and confusion by using familiar icon patterns and consistent spacing.	<ul style="list-style-type: none">• Users in testing struggled to locate core actions when icons were scattered across screens.• A fixed top navigation bar mirrors other creative and gallery apps, aligning with user expectations for discoverability and consistency.
Consolidated the commenting feature under “Graph” and annotating in “Journal” to just one “Reflections” section	<ul style="list-style-type: none">• Makes it easier for users to reflect without deciding between multiple tools.	<ul style="list-style-type: none">• In prior testing, users were unsure where to post thoughts (comment vs. journal).• Combining these into “Reflections” made the experience feel more intuitive and aligned with Traverse’s value of open-ended, personal engagement with art.
When uploading your own art onto the graph, tag related work	<ul style="list-style-type: none">• Encourages meaningful connections between artworks, enhancing the graph’s depth and discoverability.• Strengthens sense of contribution and user agency by showing how uploads shape the system.	<ul style="list-style-type: none">• The upload process previously felt disconnected from the exploration experience.• Tagging related works ensures each new node fits meaningfully within the network and addresses “cold start” issues by enriching relationships across the graph.

Medium-Fi Prototype



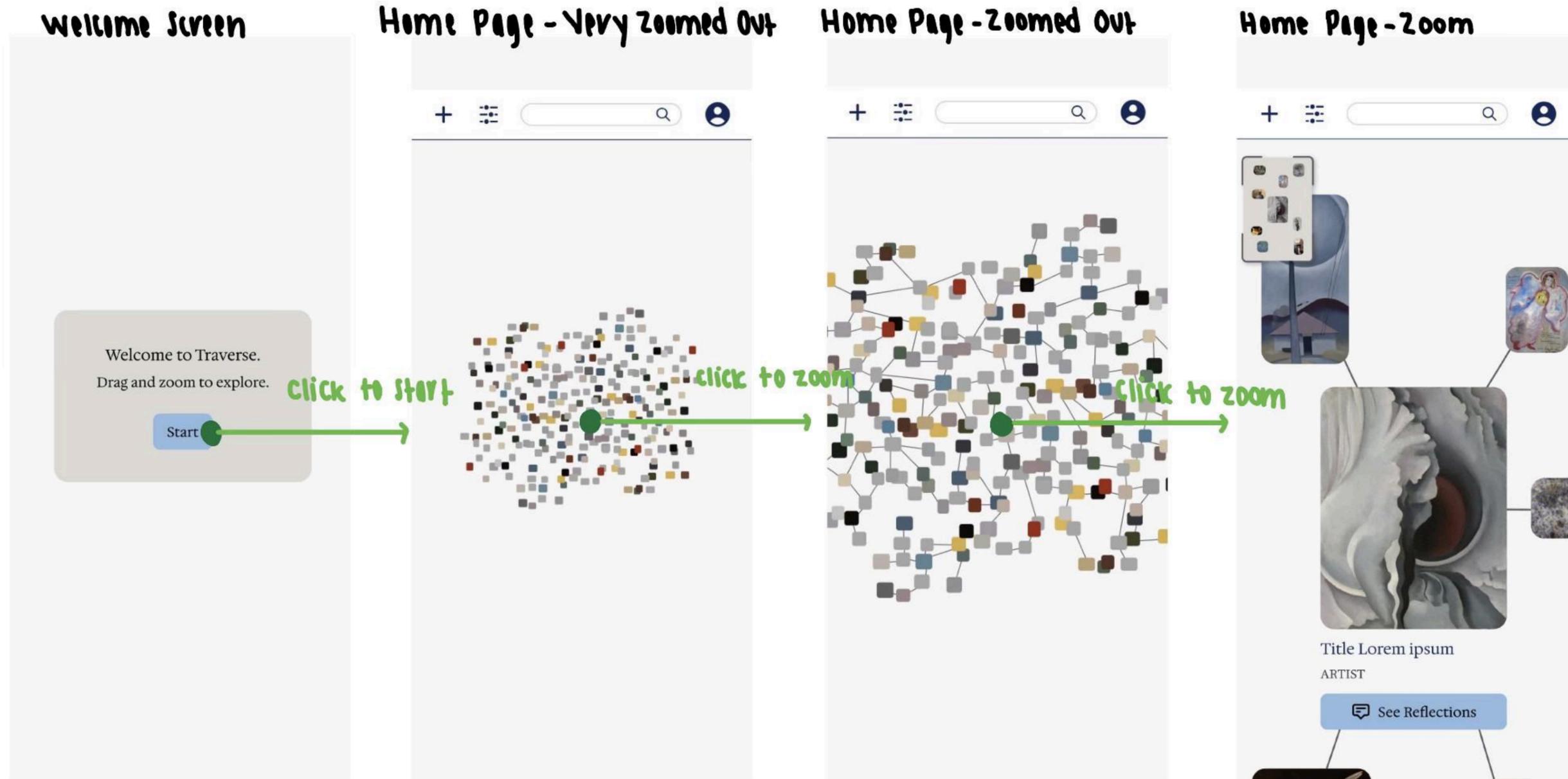
Medium-Fi Prototype

Demo



Medium-Fi Prototype

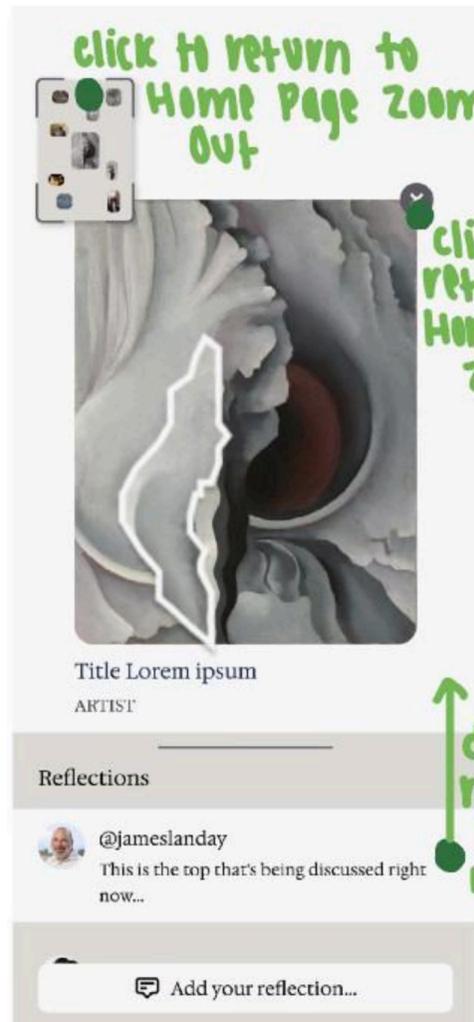
Simple Task Flow



Medium-Fi Prototype

Moderate Task Flow

Reflections View



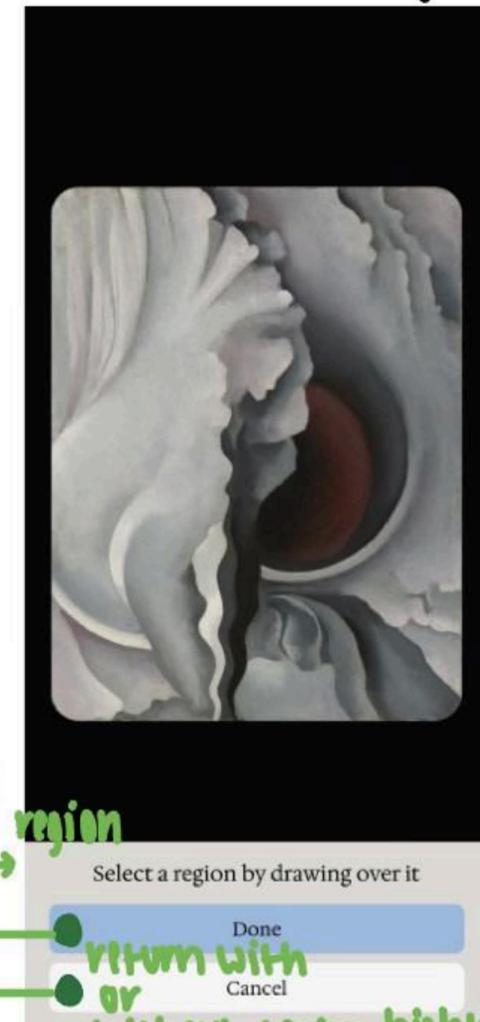
Reflections View Move



Create Reflections Pop up



Reflection - Select Region



Reflections New Comment



drag to reveal more reflections

click to start commenting

click to toggle to private

Private

Medium-Fi Prototype

Complex Task Flow



Medium-Fi Prototype Implementation

Tools Used

- Figma

Pros

- Easy real-time collaboration, accurate device sizing, and quick prototyping with consistent layouts.

Cons

- Time-consuming to debug prototype flows, steep learning curve for new users, limited vector editing tools, and no true zoom functionality in prototypes.

Tradeoff

- The ease of teamwork and consistency in Figma outweighed any technical limits for our goals. We had one team member with extensive Figma experience that helped ease the learning curve for others.



Medium-Fi Prototype

Limitations

What were we not able to model through the prototype?

- Zoom and drag interactions are not fully modeled, since Figma doesn't support continuous zooming, users click through static screens to simulate traversal.
- There are limited traversal screens; users can only view one conceptual node and its connected reflections page.
- Search, filters, and profile pages are non-functional placeholders. They are visually represented but not interactive in this version.

Medium-Fi Prototype

Wizard-of-Oz Features

What features were automated and simulated?

- Graph navigation: Clicking through static frames simulates zooming and dragging between artworks.
- AI-generated connections between artworks are pre-determined to mimic a recommendation system.
- User input for reflections, highlighted regions, uploaded artworks, and tagged related works is auto-filled. These steps demonstrate the intended flow but don't accept real input.

Medium-Fi Prototype

Hard-Coded Features

What features were pre-set?

- Only one artwork and its connected reflections are fully shown.
- The tagging step after upload displays a fixed set of artworks.
- Reflection text and highlighted regions are pre-written to represent expected user contributions.
- Search results show preset example images instead of real query results.

Questions?



Appendix



Appendix

Figma Links

Figma

Prototype