mosaicly

Sprint 2 Plan

Product name: Mosaicly

Team name: Mosaicly Team

Sprint completion date: May 6th, 2025

Revision number: 4

Revision date: May 3rd, 2025

Goal: To provide users full profile customization features as well as a functioning realtime canvas.

User Stories and Tasks

2.1 Canvas Functionality (Visuals and Controls) (3 tasks)

User Story: As a user, I want to use a canvas that I can navigate and draw on with different colors so I can see other people's interactions and have different ways of expressing myself.

- **Task 2.1.1:** Canvas Layout UI on Svelte
    - Description: Create canvas page UI on Svelte (layout) using the Figma design
    - Time Estimate: 2 hours

- **Task 2.1.2:** Pixelated Canvas
    - Description: Create a working pixelated canvas
    - Time Estimate: 2 hours

- **Task 2.1.3:** Canvas Controls
    - Description: Create working zoom and panning controls, as well as erase and color
    - Time Estimate: 2 hours

2.2 Canvas Real Time Updates (2 tasks)

User Story: As a user, I want to be able to see who is interacting with the canvas in real time so I know I am having real interactions with other people.

- **Task 2.2.1:** Set up Realtime Database on Supabase (Infrastructure)

- Description: Set up Realtime Database on Supabase to prepare for sending pixel data from canvases
- Time Estimate: 1 hour

- **Task 2.2.2:** Sending Canvas Pixel Data to Supabase
  - Description: Send pixel data (user, color, date) to Supabase's realtime database
  - Time Estimate: 3 hours

2.3 Canvas Location (2 tasks)

User Story: As a user, I want to be able to see the locations about canvases so I know where I can interact with other users.

- **Task 2.3.1:** Research PostGIS (Spike)
  - Description: Research PostGIS for canvas location data
  - Time Estimate: 1 hour

- **Task 2.3.2:** Canvas Location Storage
  - Description: Edit Supabase to prepare for it to store PostGIS data
  - Time Estimate: 2 hours

2.4 Complete Profile Customization and Display (3 Tasks)

User Story: As a user, I want to be able to customize my profile — including name, image, and bio — so that others can understand who I am when interacting with my canvas.

- **Task 2.4.1:** Profile Picture Display
  - Description: Allow profile picture to display throughout the application UI
  - Time Estimate: 1 hour

- **Task 2.4.2:** Save Changes to Profile Customization
  - Description: Allow users to save changes made to their profile by sending information to the database
  - Time Estimate: 2 hours

- **Task 2.4.3:** Profile Customization Changes
  - Description: Functionality for changing username, bio, password, profile picture, and account deactivation or deletion. Also include input validation (username length, file types, error handling).
  - Time Estimate: 4 hours

2.5 Canvas Locator Page (1 Task)

User Story: As a user, I want to a page that can allow me to locate other user canvases so that I can interact with other people

- **Task 2.5.1:** Canvas Locator UI on Svelte

- Description: Use the UI design on Figma to create the same canvas locator page design on Svelte
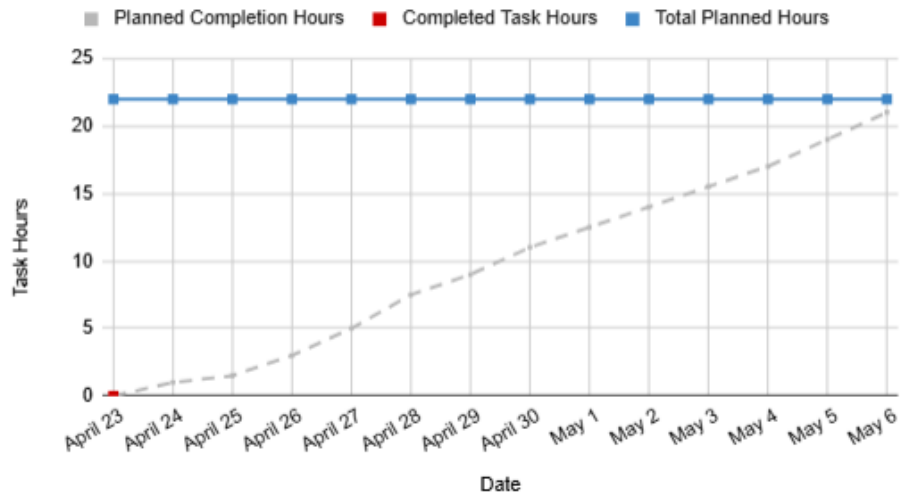- Time Estimate: 2 hours

Team Roles

- **Brighton A:** Developer
- **Lemon F:** Product Owner, Developer
- **Shreyansh K:** Developer
- **Kenric T:** Scrum Master, Developer
- **Brendan T:** Developer
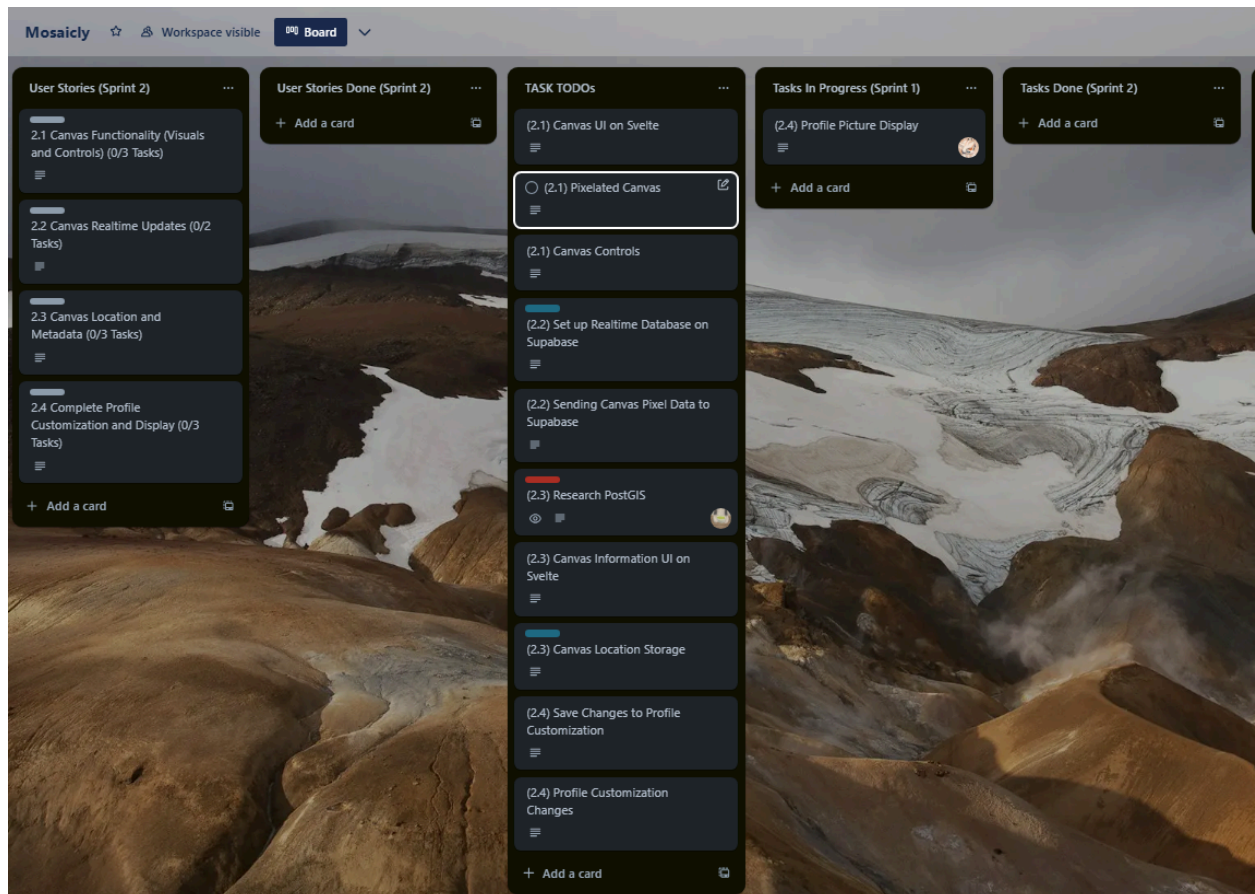
Initial Task Assignment

- **Brighton:**
  - User Story 2.3: Canvas Location and Metadata
  - Task 2.3.1: Research PostGIS
- **Lemon:** Product Owner, Developer
  - User Story 2.4: Complete Profile Customization and Display
  - Task 2.4.3: Profile Customization Changes
- **Shreyansh:**
  - User Story 2.1: Canvas Functionality (Visuals and Controls)
  - Task 2.1.2: Pixelated Canvas
- **Kenric:**
  - User Story 2.4: Complete Profile Customization and Display
  - Task 2.4.3: Profile Customization Changes
- **Brendan:**
  - User Story 2.2: Canvas Real Time Updates
  - Task 2.2.1: Set up Realtime Database on Supabase

Initial Burnup Chart

Mosaicly Burnup Chart (Sprint 2 Tasks)

■ Planned Completion Hours ■ Completed Task Hours ■ Total Planned Hours

Initial Scrum Board

Scrum Times

Meeting 1: Monday, 9:00 AM – 10:15 AM
Meeting 2: Wednesday, 9:00 AM – 10:15 AM
Meeting 3 (with TA Shuran Sun): Saturday 3:00 PM – 4:00 PM