

# Sprint 3 Plan

*Product name:* Mosaicly

*Team name:* Mosaicly Team

*Sprint completion date:* May 20th, 2025

*Revision number:* 2

*Revision date:* May 10th, 2025

**Goal:** To provide users a means to create stored canvases, find other canvases, and customize their profiles

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## User Stories and Tasks

### 3.1 Canvas Creation and Information (3 tasks) [5 Story Points]

**User Story 3.1:** As a user, I want to be able to create a canvas with its own information so that users can identify and interact with my canvas.

- **Task 3.1.1:** Canvas Creation Page UI on Figma
  - Description: Create UI design for the canvas creation page on Figma
  - Time Estimate: 2 hours
- **Task 3.1.2:** Canvas Creation Page UI on Svelte
  - Description: Use the UI design on Figma to create the same canvas creation page design on Svelte
  - Time Estimate: 2 hours
- **Task 3.1.3:** Canvas Information Sent to Database
  - Description: Send canvas creation information to the Supabase database
  - Time Estimate: 2 hours

### 3.2 Canvas Real Time Updates (2 tasks) [5 Story Points]

**User Story 3.2:** 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 3.2.1:** Sending Canvas Pixel Data to Supabase
  - Description: Set up Realtime Database Triggers on Supabase so that the Canvas table can store canvas information
  - Time Estimate: 2 hours
- **Task 3.2.2:** Canvas Synchronization
  - Description: Use Supabase Realtime to synchronize user canvas views in real time
  - Time Estimate: 3 hours

### 3.3 Canvas Location Tracking (4 tasks) [5 Story Points]

**User Story 3.3:** As a user, I want to be able to see my location and distance from different canvases so I can tell where to locate them.

- **Task 3.3.1:** Canvas Locator UI on Figma
  - Description: Create UI design for the canvas locator page on Figma
  - Time Estimate: 2 hours
- **Task 3.3.2:** 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
- **Task 3.3.3:** User Location Tracking Functionality
  - Description: Add functionality so that the user can be tracked in real time
  - Time Estimate: 2 hours
- **Task 3.3.4:** Canvas Location Tracking Functionality
  - Description: Add functionality so that the nearest available canvases are displayed with their distances from the user
  - Time Estimate: 2 hours

### 3.4 QR Code Generation (6 Tasks) [8 Story Points]

**User Story 3.4:** As a user, I want to be able to share my canvas online so that other users can interact with it.

- **Task 3.4.1:** Research QR Code Generation (Spike)
  - Description: Research QR Code Generation tools to help users get into a canvas
  - Time Estimate: 1 hour
- **Task 3.4.2:** QR Code Generation Page UI on Figma
  - Description: Create UI design for the QR code generation page on Figma
  - Time Estimate: 2 hours
- **Task 3.4.3:** QR Code Generation Page UI on Svelte

- Description: Use the UI design on Figma to create the same QR code generation page design on Svelte
- Time Estimate: 2 hours
- **Task 3.4.4:** Research Automatic Image and PDF Editing (Spike)
  - Description: Research automatic image and PDF editing or processing tools to help users choose how to display their QR code pages
  - Time Estimate: 1 hour
- **Task 3.4.5:** Basic QR Code Image and PDF Generator
  - Description: Implement automatic image and PDF editing functionality to generate QR codes with a backup code under the QR code
  - Time Estimate: 2 hours
- **Task 3.4.6:** QR Code Generation Functionality
  - Description: Make sure QR code generation is saved and directs users to the matching canvas page
  - Time Estimate: 2 hours

### 3.5 Complete Profile Customization (2 Tasks) [3 Story Points]

**User Story 3.5:** 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 3.5.1:** 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 3.5.2:** 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), as well as showing which canvases a user owns.
  - Time Estimate: 4 hours

## Team Roles

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

## Initial Task Assignment

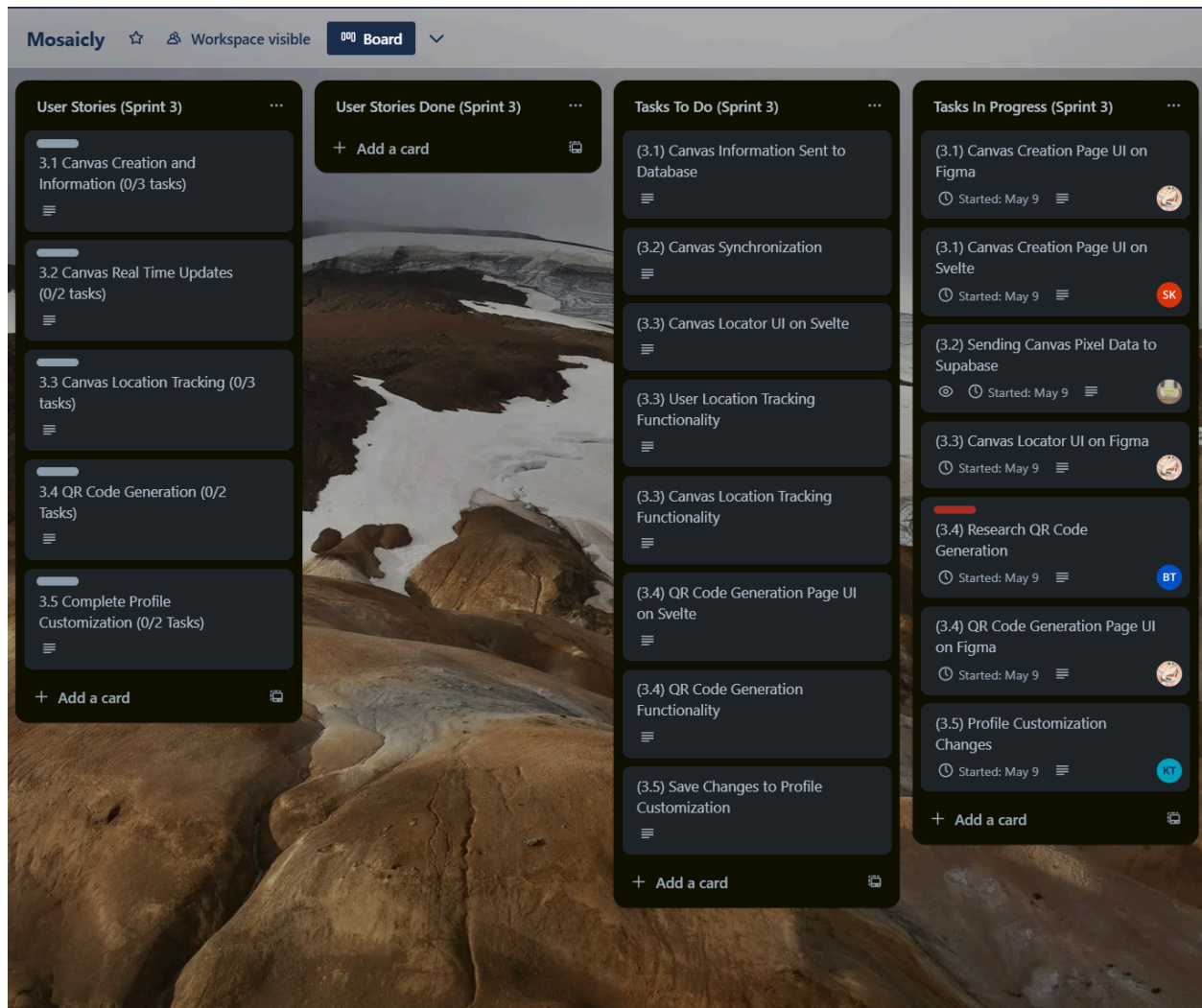
- **Brighton:**
  - User Story 3.2: Canvas Location and Metadata
  - Task 3.2.1: Sending Canvas Pixel Data to Supabase
- **Lemon:**
  - User Story 3.1: Canvas Creation Page UI on Svelte
  - Task 3.1.1: Canvas Creation Page UI on Figma
- **Shreyansh:**
  - User Story 3.1: Canvas Creation Page UI on Svelte
  - Task 3.1.2: Canvas Creation Page UI on Svelte
- **Kenric:**
  - User Story 3.5: Complete Profile Customization
  - Task 3.5.1: Save Changes to Profile Customization
- **Brendan:**
  - User Story 3.4: QR Code Generation
  - Task 3.4.1: Research QR Code Generation

## Initial Burnup Chart

Mosaicy Burnup Chart (Sprint 3 Tasks)



# 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

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