Love Tank Project Scope (Final MVP)

Purpose

A lightweight relationship health tracker where users make daily deposits (+1) or withdrawals (-5) based on love languages. The app helps visualize emotional momentum using a love tank metaphor. MVP supports up to 10 users for early testing.

Tech Stack

Frontend: Next.js (App Router), JavaScript

Styling: TailwindCSS (pastel + minimalist)

Backend: Firebase (Auth + Firestore DB)

Auth: Google login only

Hosting: Vercel or Replit deployment

Design & UX Overhaul (from Replit Feedback)

- Clean, minimalist look similar to Notion

- Pastel color palette (lavender, blush, mint, sky blue)

- Less intrusive styling across the app

- Refined logo with a modern, soft aesthetic

Authentication

- Google Sign-In using Firebase Auth

- On success, user is created in Firestore at /users/{uid}

Data Model (Firestore)

/users/{uid}

```
{

  name: "Jane Doe",

  email: "jane@gmail.com",

  score: 36,

  partnerId: "abc123" // linked read-only account

}
```

/transactions/{uid}/{entryId}

```
{

  type: "deposit" | "withdraw",

  loveLanguage: "words_of_affirmation",

  comment: "short message", // withdraw only

  date: "2025-07-14",

  createdAt: Timestamp

}
```

/invites/{uid}

```
{

  invitedUserId: "xyz123"

}
```

Key Features

Visual Progress

Watch your love tank fill up and your relationship status shift in real-time with every daily action.

Streaks & Badges

Earn meaningful achievements for staying consistent, exploring all five love languages, and building lasting emotional momentum.

Love Languages

Choose from Words of Affirmation, Quality Time, Physical Touch, Acts of Service, and Receiving Gifts when making deposits that reflect real moments.

How It Works

Daily Deposits

Add +1 point to your love tank each day by choosing a love language and recognizing a positive moment. Small, thoughtful actions build emotional wealth over time.

Honest Withdrawals

When tensions arise, make a withdrawal (-5 points) with a short comment to reflect on relationship challenges.

Psychologists say it takes five positive moments to balance one negative onethis is why deposits are +1 and withdrawals are -5.

Track Progress

As your score moves, your relationship status updatesranging from Love Emergency to Love Rockstars.

Reflect & Improve

Review your past entries, unlock streaks, and use personal insights to grow stronger together.

Couple Mode

- Main user must invite their partner via email after signing up

- Partner logs in via Google and is assigned read-only access

- The partner can view:

  - Tank score (shared)

  - Relationship status

  - Transaction history

- The partner cannot deposit, withdraw, or edit any data

App Pages Overview

1. Landing Page (/)

- Clean layout with logo, slogan, app description, "How It Works" section

- Google Sign-In button (central CTA)

2. Dashboard / Love Tank (/tank)

- Animated love tank, current score, status label

- Buttons for Deposit and Withdraw

- Shows daily interaction state

3. Deposit Modal (/tank/deposit)

- Choose love language, auto-filled date

- Adds +1 to score and logs transaction

4. Withdraw Modal (/tank/withdraw)

- Enter short comment, auto-filled date

- Deducts -5 from score and logs transaction

5. Transaction History (/history)

- List of deposits/withdrawals (last 90 days by default)

- Green/red entries, love language or comment

- Optional date filter

6. Invite Partner (/invite)

- Form to enter partner's email

- Links them in Firestore for read-only Couple Mode

7. Partner View (/partner-view)

- Read-only tank view showing score, status, and history

8. 404 / Fallback Page

- Friendly error message with redirect option