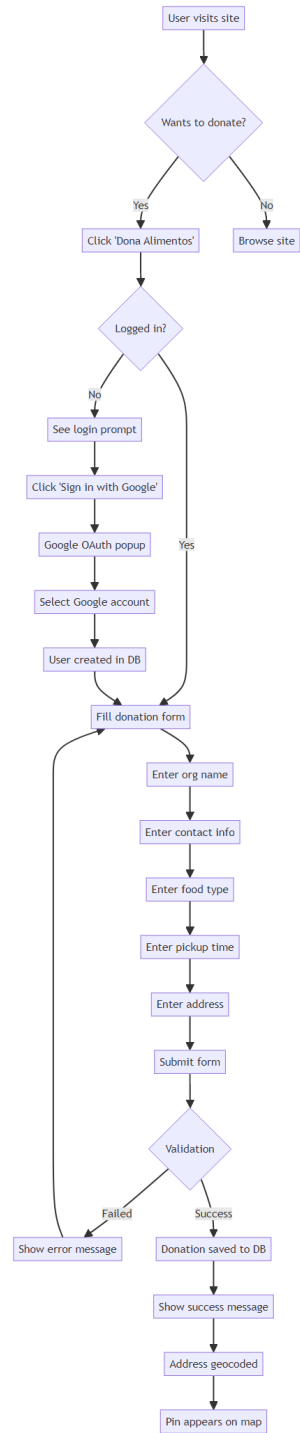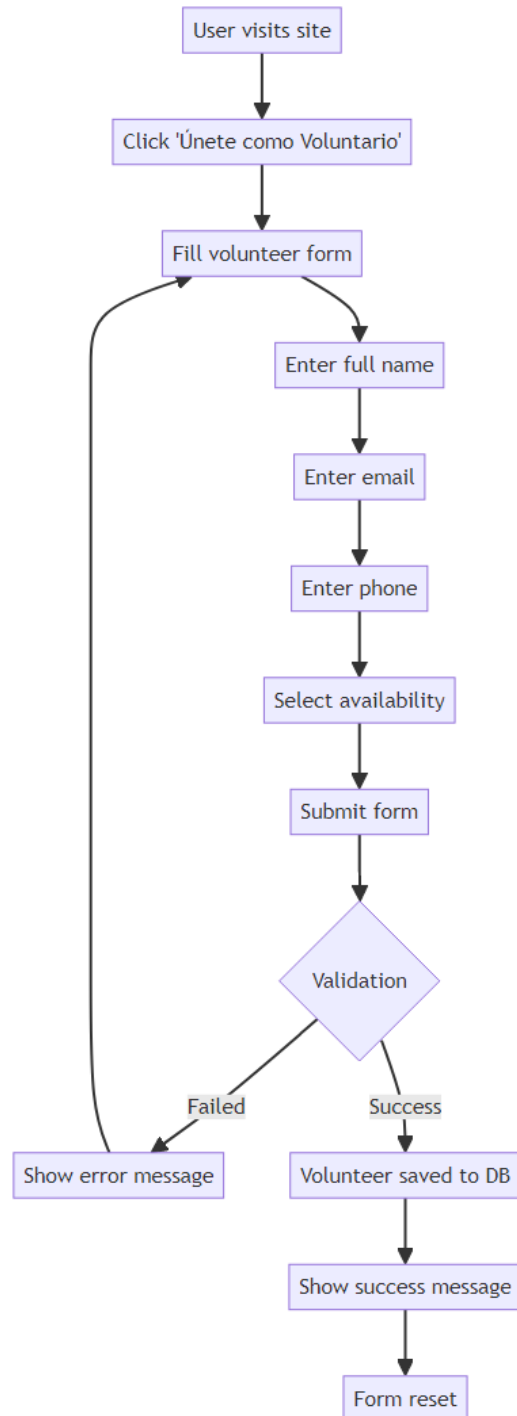# User Workflows - Kilometros de Vida

Overview

This document outlines the key user workflows in the Kilometros de Vida application.

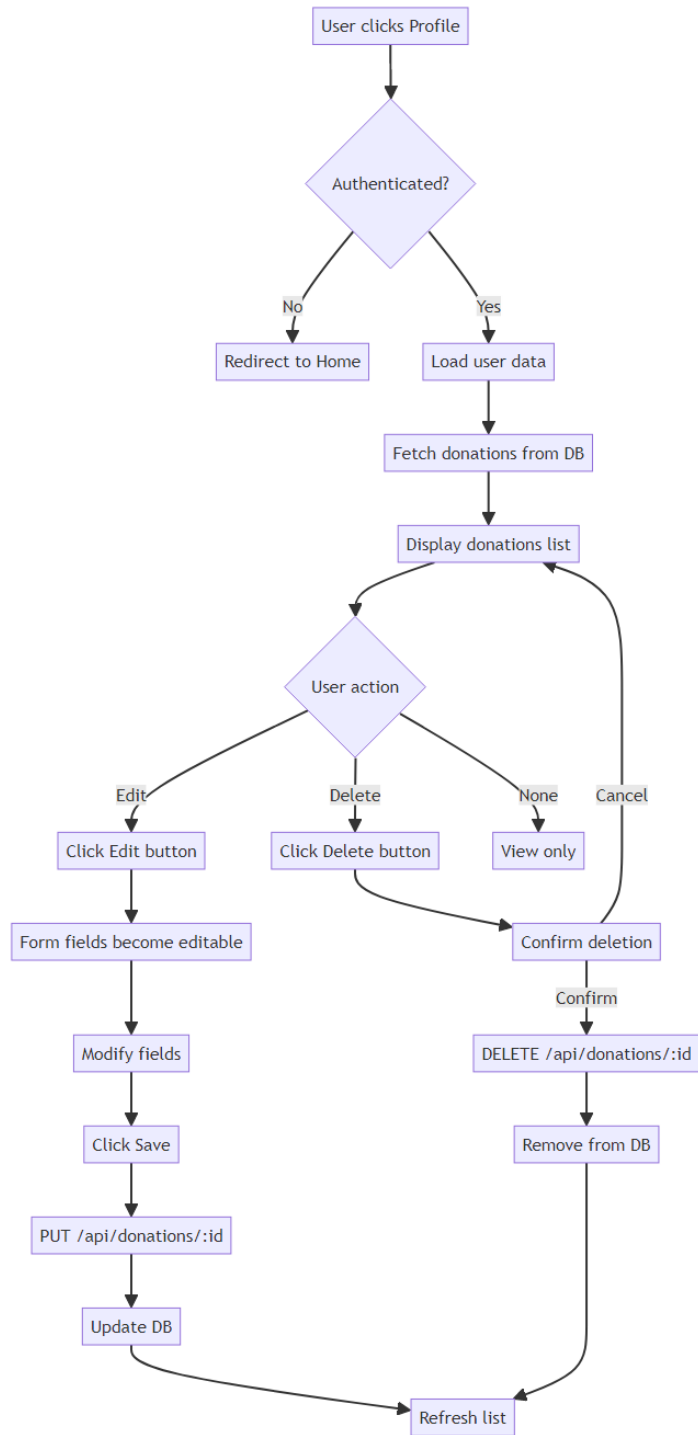## 1. New User Registration & First Donation

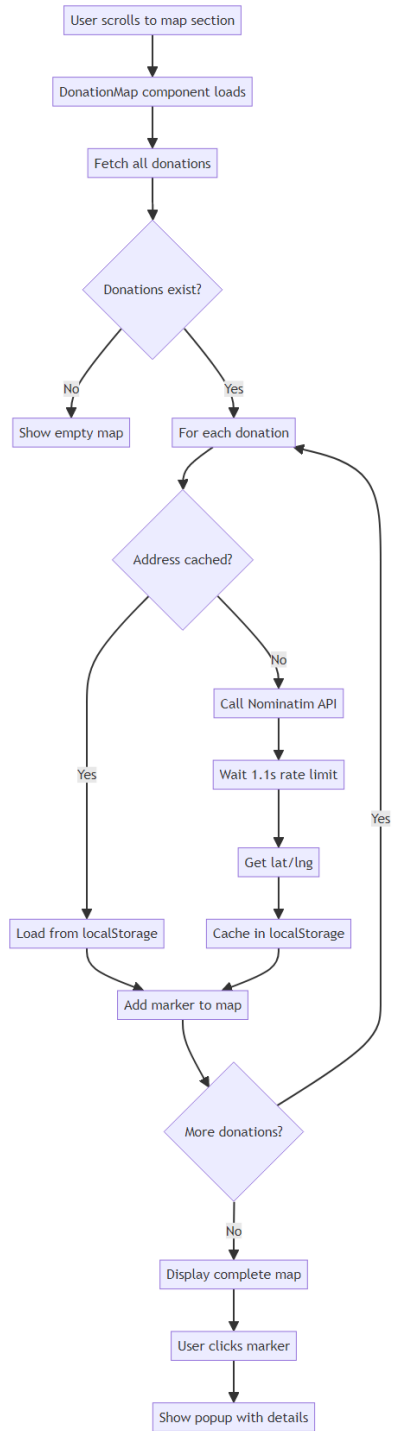## 2. Volunteer Registration Workflow

```
┌─────────────────┐
│ User visits site │
└─────────────────┘
         │
         ▼
┌──────────────────────────┐
│ Click 'Únete como Voluntario' │
└──────────────────────────┘
         │
         ▼
┌─────────────────┐
│ Fill volunteer form │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│ Enter full name │
└─────────────────┘
         │
         ▼
┌─────────────┐
│ Enter email │
└─────────────┘
         │
         ▼
┌─────────────┐
│ Enter phone │
└─────────────┘
         │
         ▼
┌──────────────────┐
│ Select availability │
└──────────────────┘
         │
         ▼
┌─────────────┐
│ Submit form │
└─────────────┘
         │
         ▼
      ◇ Validation ◇
       │         │
    Failed     Success
       │         │
       ▼         ▼
┌──────────────────┐  ┌────────────────────┐
│ Show error message │  │ Volunteer saved to DB │
└──────────────────┘  └────────────────────┘
                              │
                              ▼
                      ┌──────────────────┐
                      │ Show success message │
                      └──────────────────┘
                              │
                              ▼
                      ┌─────────────┐
                      │ Form reset │
                      └─────────────┘
```

3. Managing Donations (Profile Page)

4. Viewing Impact Map

```
┌──────────────────────────┐
│ User scrolls to map section │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│ DonationMap component loads │
└──────────────────────────┘
              │
              ▼
┌──────────────────────────┐
│     Fetch all donations     │
└──────────────────────────┘
              │
              ▼
         ◇ Donations exist? ◇
          /              \
      No /                \ Yes
        ▼                  ▼
┌──────────────┐   ┌──────────────────┐
│ Show empty map │   │ For each donation │◄─────┐
└──────────────┘   └──────────────────┘      │
                          │                    │
                          ▼                    │
                   ◇ Address cached? ◇         │
                    /            \             │
               Yes /              \ No         │
                  │                ▼           │
                  │         ┌────────────────┐ │
                  │         │ Call Nominatim API │ │
                  │         └────────────────┘ │
                  │                │           │
                  │                ▼           │
                  │         ┌──────────────────┐│
                  │         │ Wait 1.1s rate limit ││
                  │         └──────────────────┘│
                  │                │           │
                  │                ▼           │ Yes
                  │         ┌──────────────┐    │
                  │         │  Get lat/lng  │    │
                  │         └──────────────┘    │
                  ▼                │           │
┌──────────────────────┐  ┌──────────────────┐ │
│ Load from localStorage │  │ Cache in localStorage │ │
└──────────────────────┘  └──────────────────┘ │
                  \            /                │
                   ▼          ▼                 │
              ┌──────────────────┐              │
              │  Add marker to map │              │
              └──────────────────┘              │
                       │                        │
                       ▼                        │
                 ◇ More donations? ◇────────────┘
                       │
                    No │
                       ▼
              ┌──────────────────────┐
              │  Display complete map  │
              └──────────────────────┘
                       │
                       ▼
              ┌──────────────────┐
              │ User clicks marker │
              └──────────────────┘
                       │
                       ▼
              ┌──────────────────────┐
              │  Show popup with details │
              └──────────────────────┘
```

5. Error Handling Workflow

User Journey Map

Donor Journey

1. **Discovery**: User learns about food waste problem
2. **Awareness**: Sees impact statistics on homepage
3. **Interest**: Clicks "Dona Alimentos"
4. **Action**: Fills out donation form
5. **Confirmation**: Sees success message
6. **Engagement**: Sees their location on map
7. **Retention**: Returns to profile to manage donations

Volunteer Journey

1. **Motivation**: Wants to help community
2. **Exploration**: Reads "Cómo Funciona" section
3. **Decision**: Clicks "Únete como Voluntario"
4. **Registration**: Fills availability form
5. **Confirmation**: Receives success message
6. **Future**: (Could add) Receives notifications for nearby pickups

Key User Interactions

Homepage

- **Scroll animations**: Smooth fade-ins as user scrolls
- **Counter animations**: Numbers count up when in viewport
- **Map interaction**: Click markers to see donation details
- **CTA buttons**: Prominent calls-to-action

Forms

- **Real-time validation**: Immediate feedback on input
- **Loading states**: Button shows "Enviando..." during submission
- **Success/Error messages**: Clear feedback after submission
- **Auto-fill**: Google Auth pre-fills name and email

Profile Page

- **Inline editing**: Click "Editar" to modify donation
- **Confirmation dialogs**: "¿Estás seguro?" before deletion
- **Empty states**: Helpful messages when no data
- **Quick actions**: Edit/Delete buttons on each item

Accessibility Considerations

1. **Keyboard Navigation**: All interactive elements accessible via Tab
2. **Screen Readers**: Semantic HTML and ARIA labels
3. **Color Contrast**: WCAG AA compliant color scheme
4. **Form Labels**: All inputs have associated labels
5. **Error Messages**: Clear, descriptive error text

Mobile Responsiveness

1. **Touch Targets**: Minimum 44x44px for buttons
2. **Responsive Grid**: Adapts from 1 to 2 columns
3. **Mobile Menu**: Hamburger menu on small screens
4. **Map Gestures**: Touch-friendly map controls
5. **Form Layout**: Stacked inputs on mobile