

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

```
flowchart TD
    A["User visits site"] --> B{"Wants to donate?"}
    B -->|Yes| C["Click 'Dona Alimentos'"]
    B -->|No| D["Browse site"]

    C --> E{"Logged in?"}
    E -->|No| F["See login prompt"]
    E -->|Yes| G["Fill donation form"]

    F --> H["Click 'Sign in with Google'"]
    H --> I["Google OAuth popup"]
    I --> J["Select Google account"]
    J --> K["User created in DB"]
    K --> G

    G --> L["Enter org name"]
    L --> M["Enter contact info"]
    M --> N["Enter food type"]
    N --> O["Enter pickup time"]
    O --> P["Enter address"]
    P --> Q["Submit form"]

    Q --> R{"Validation"}
    R -->|Failed| S["Show error message"]
    S --> G
    R -->|Success| T["Donation saved to DB"]
    T --> U["Show success message"]
    U --> V["Address geocoded"]
    V --> W["Pin appears on map"]
```

2. Volunteer Registration Workflow

```
flowchart TD
    A["User visits site"] --> B["Click 'Únete como Voluntario'"]
    B --> C["Fill volunteer form"]

    C --> D["Enter full name"]
```

```

D --> E[Enter email]
E --> F[Enter phone]
F --> G[Select availability]
G --> H[Submit form]

H --> I{Validation}
I -->|Failed| J>Show error message
J --> C
I -->|Success| K[Volunteer saved to DB]
K --> L>Show success message
L --> M[Form reset]

```

3. Managing Donations (Profile Page)

```

flowchart TD
    A[User clicks Profile] --> B{Authenticated?}
    B -->|No| C[Redirect to Home]
    B -->|Yes| D[Load user data]

    D --> E[Fetch donations from DB]
    E --> F[Display donations list]

    F --> G{User action}
    G -->|Edit| H[Click Edit button]
    G -->|Delete| I[Click Delete button]
    G -->|None| J[View only]

    H --> K[Form fields become editable]
    K --> L[Modify fields]
    L --> M[Click Save]
    M --> N[PUT /api/donations/:id]
    N --> O[Update DB]
    O --> P[Refresh list]

    I --> Q[Confirm deletion]
    Q -->|Cancel| F
    Q -->|Confirm| R[DELETE /api/donations/:id]
    R --> S[Remove from DB]
    S --> P

```

4. Viewing Impact Map

```

flowchart TD
    A[User scrolls to map section] --> B[DonationMap component loads]
    B --> C[Fetch all donations]
    C --> D{Donations exist?}

```

```

D -->|No| E[Show empty map]
D -->|Yes| F[For each donation]

F --> G{Address cached?}
G -->|Yes| H[Load from localStorage]
G -->|No| I[Call Nominatim API]

I --> J[Wait 1.1s rate limit]
J --> K[Get lat/lng]
K --> L[Cache in localStorage]

H --> M[Add marker to map]
L --> M

M --> N{More donations?}
N -->|Yes| F
N -->|No| O[Display complete map]

O --> P[User clicks marker]
P --> Q>Show popup with details

```

5. Error Handling Workflow

```

flowchart TD
    A[User action] --> B{Network error?}
    B -->|Yes| C>Show 'Connection failed' message
    B -->|No| D{Validation error?}

    D -->|Yes| E>Show field-specific errors
    D -->|No| F{Server error?}

    F -->|Yes| G>Show 'Server error' message
    F -->|No| H>Success

    H --> I>Show success message
    I --> J[Update UI]

    C --> K>Retry option
    E --> L>User corrects input
    G --> K

```

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