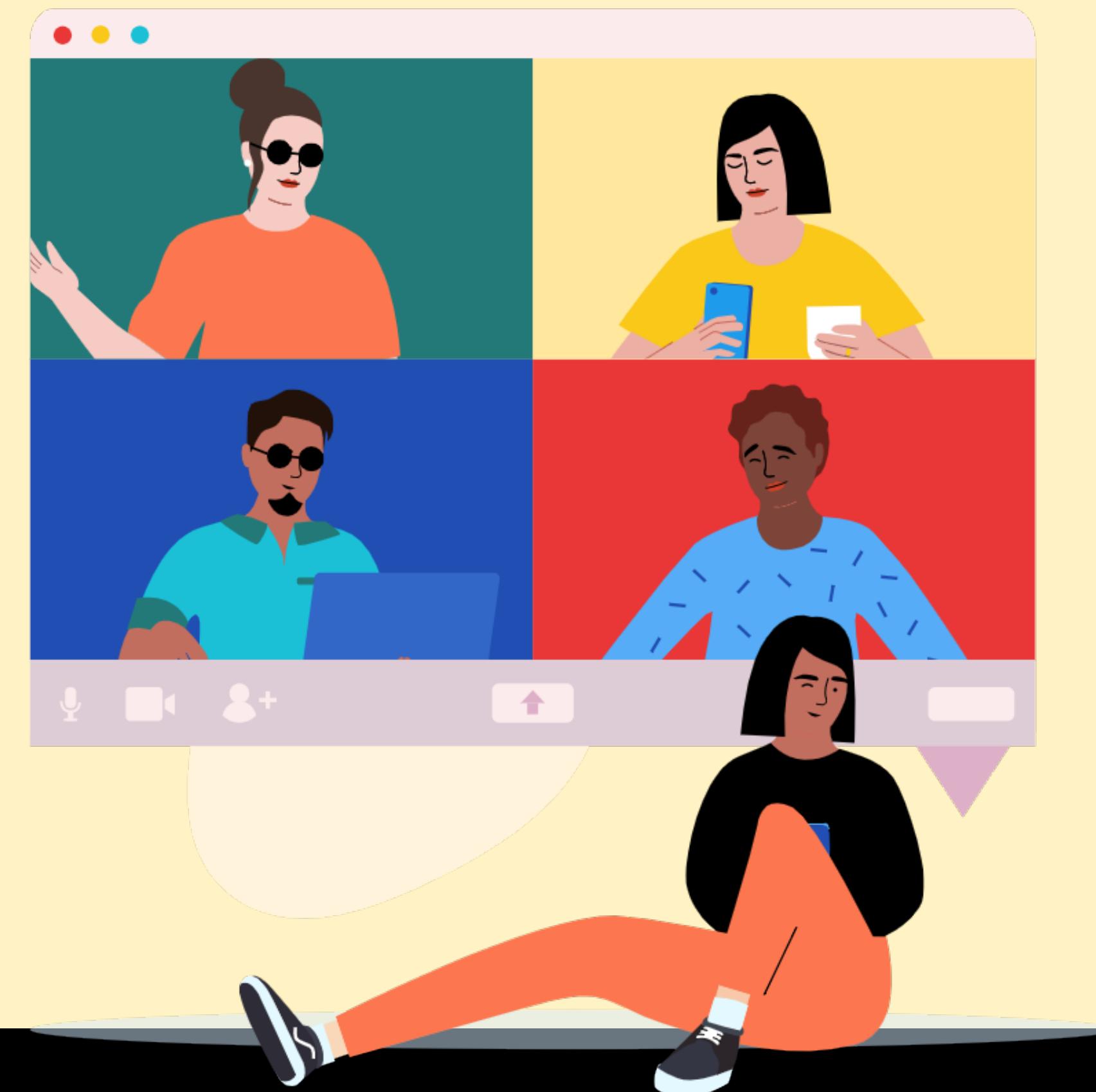


BC CANCER & NORTHEASTERN

# Event Management Optimization System



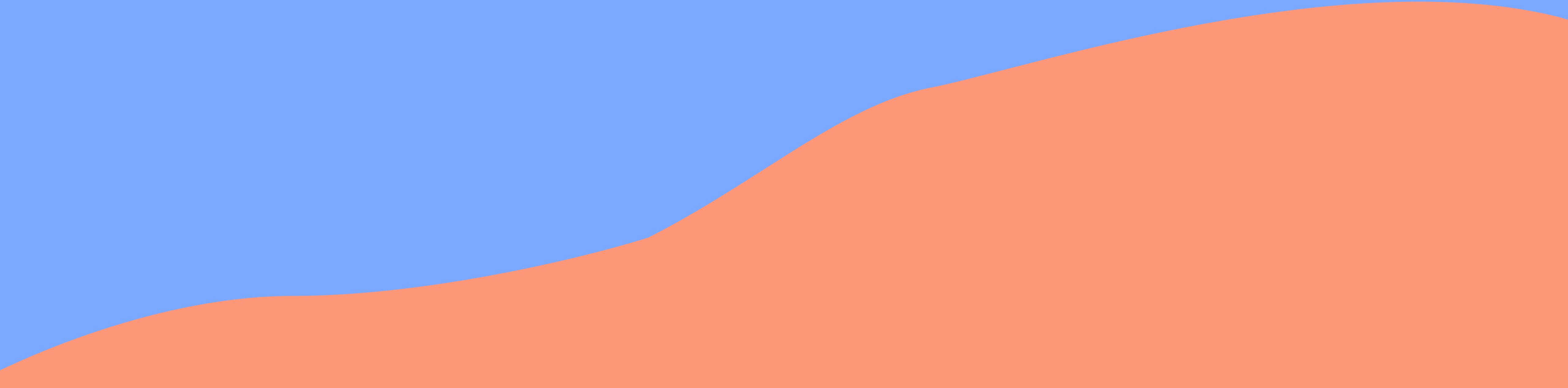
**Group: PuppyLover**

Shiyuan Chen: chen.shiyua@northeastern.edu

William: gao.xing4@northeastern.edu

Yan Wang: wang.yan8@northeastern.edu

Zhengziye Lin: lin.zhenz@northeastern.edu

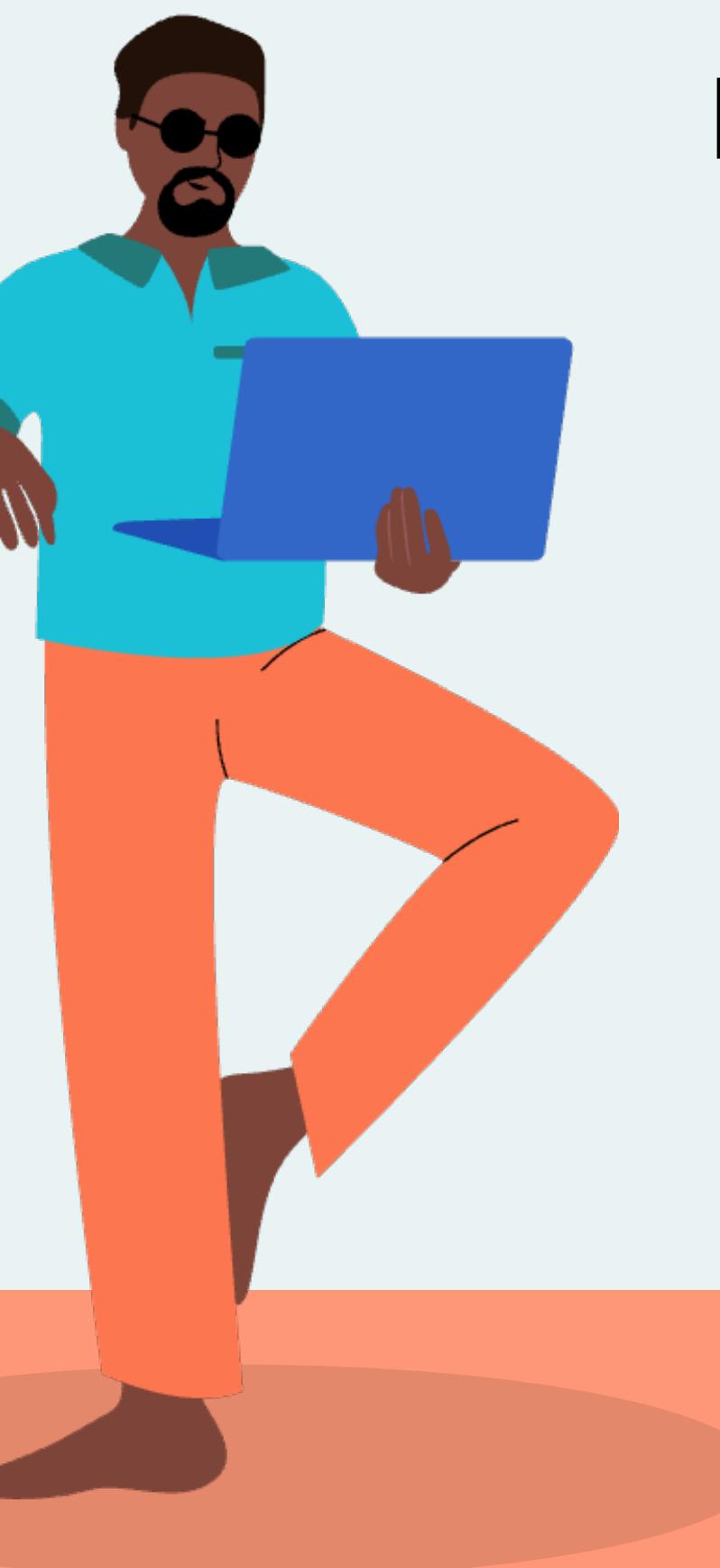


**BC Cancer Handles A Large Number Of  
Events, Requiring Efficient Management  
Of Donor Lists.**

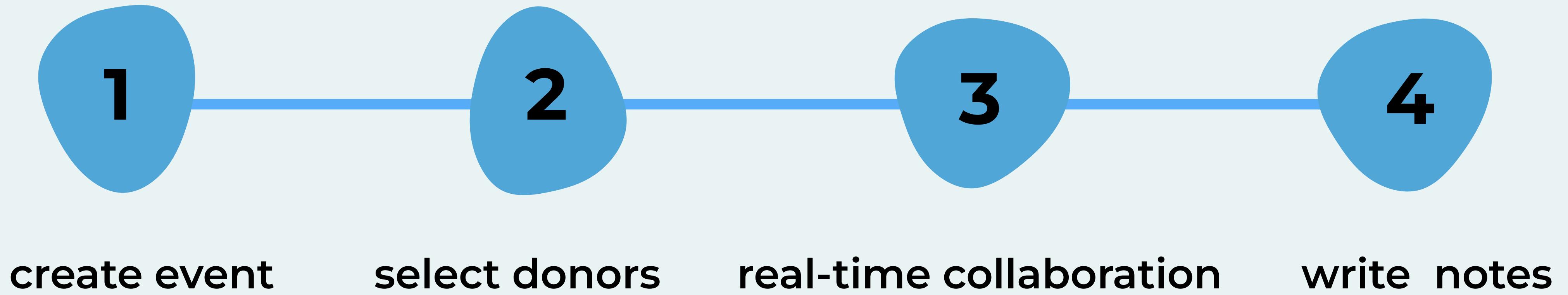
# **A Shared System To Streamline The Event Management And Donor Selection Process**



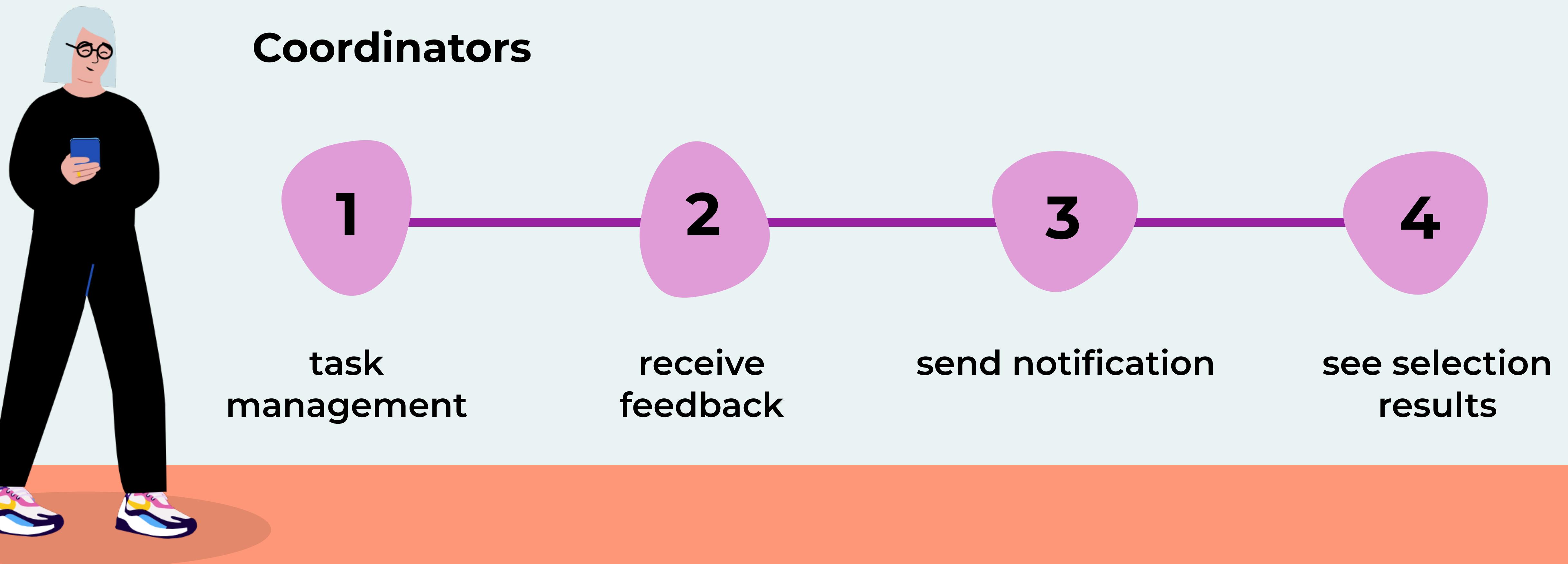
# User Stories



## Fundraisers



# User Stories



# Smarter Online Excel

Create  
Select  
Filter  
Note

The screenshots demonstrate a web-based application for managing events, specifically for a 'Thanks Giving Party'.

**Left Screenshot: Events / Create Event**

- Name:** Thanks Giving Party
- Description:** Thanksgiving weekend. For many, this is the time of year when families gather together, often at a family cabin, and hope to have a good harvest. In 1621, the pilgrims at Plymouth Plantation decided to have a harvest festival to give thanks for the end of a long and difficult winter. Without their help, many of the pilgrims would have died. Some records say the first official Thanksgiving was in 1621, but others say it was in 1623.
- Donors to Confirm:** 1000 donors selected
- Location:** Vancouver
- Last gift date:** after 2023-01-01
- Add a selection parameter:** +

**Right Screenshot: Events / Thanks Giving Party**

- total invitation:** 150
- total selected:** 30
- Your own donors:**

Donor name	largest gift appeal	last gift date	Address	Notes
[Placeholder]				Amy: This donor is great! X
[Placeholder]				

- donors by other:** ▾
- Save Current**
- Confirm Selection**

# Task Management

Data Display  
Notification  
Feedback

The screenshot displays a task management application with a dark sidebar menu and a light main content area.

**Dashboard:** Shows three cards under "Selection finished": "Conference in Cancer" (4 Feb 2022), "Studio" (4 Feb 2022), and "Studio2" (4 Feb 2022). A card under "Waiting for donor selection" is labeled "Thanks Giving Party" (4 Feb 2022).

**Recent Feedback:** A message from John: "John fished the donor selection for the Thanks Giving Party Selection".

**Notifications:** A notification for "Thanks Giving Party Selection" stating: "Thanks Giving Party Selection should be finished in 2 days!"

**Event Creation:** A modal titled "EVENTS / Thanks Giving Party" for creating an event named "Thanks Giving Party". Fields include Starting time (2024/10/14 18:00), End time (2024/10/14 22:00), Location, Estimate number of invitation, and Description (about Thanksgiving). A "Reminder sent" section shows an "ok" button. A "Fundraiser Status" section lists items as "Confirmed" or "in process" with "send reminder" links.

**User Profile:** Top right shows user "Shiyuan Chen Coordinator" with a profile icon, mail, and bell notifications.

# Potential Solutions

## Full Data Warehouse

Use a data warehouse for storing all donor data with regular updates via ETL processes.

## Hybrid Model (API + Local Donor Table)

Fetch real-time data via API, store it in a local database for historical analysis.

## Dashboard with Data Caching

The system would periodically refresh the cache from the API.



# Selected Solution Hybrid Model (API + Local Donor Table)



## Criteria

- Real-Time Data Access
- Historical Data Analysis
- Performance
- Scalability

## Expected Outcomes

- Improved Donor Engagement
- Faster Processing
- Enhanced Collaboration

# Wireframe

## Fundraisers

<https://www.figma.com/proto/oToPw4p6x4l4za65VU35al/donor-invitation-management?page-id=0%3A1&node-id=37-828&node-type=frame&viewport=27%2C406%2C0.16&t=bsv1p0uH8Tdy09K2-1&scaling=scale-down&content-scaling=fixed&starting-point-node-id=37%3A828&show-proto-sidebar=1>

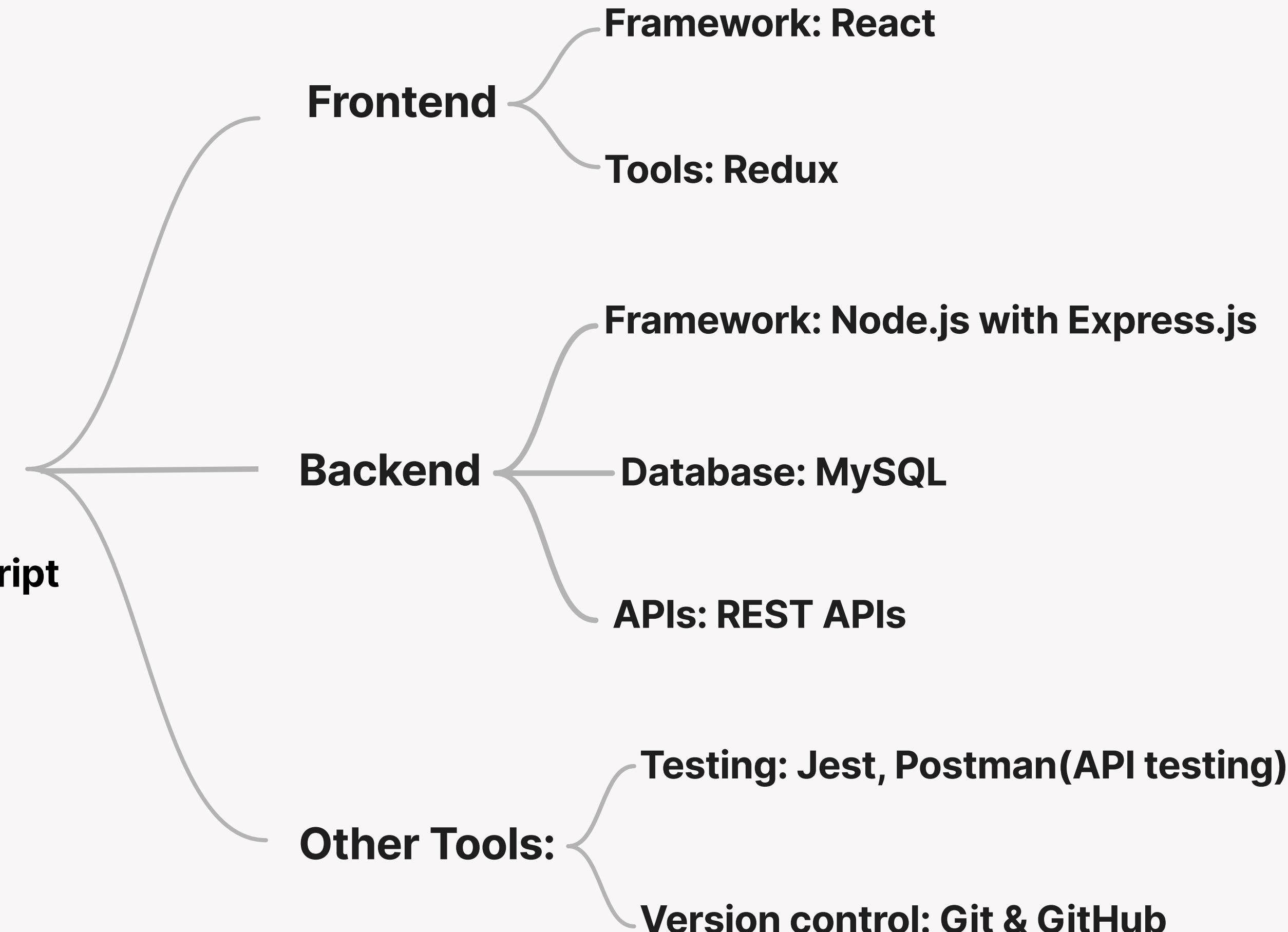
## Coordinators

<https://www.figma.com/proto/oToPw4p6x4l4za65VU35al/donor-invitation-management?page-id=0%3A1&node-id=37-741&node-type=frame&viewport=27%2C406%2C0.16&t=bsv1p0uH8Tdy09K2-1&scaling=scale-down&content-scaling=fixed&starting-point-node-id=37%3A741&show-proto-sidebar=1>

# Technology Exploration



**Technology**  
**Based on TypeScript**



# Technology Challenges



**Less familiar  
technologies:**

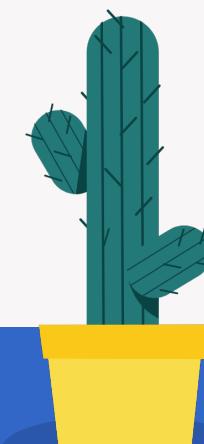
- 1. Tools for State Management
- 2. Tools for Handling Real-Time Data

**Areas of  
Uncertainty:**

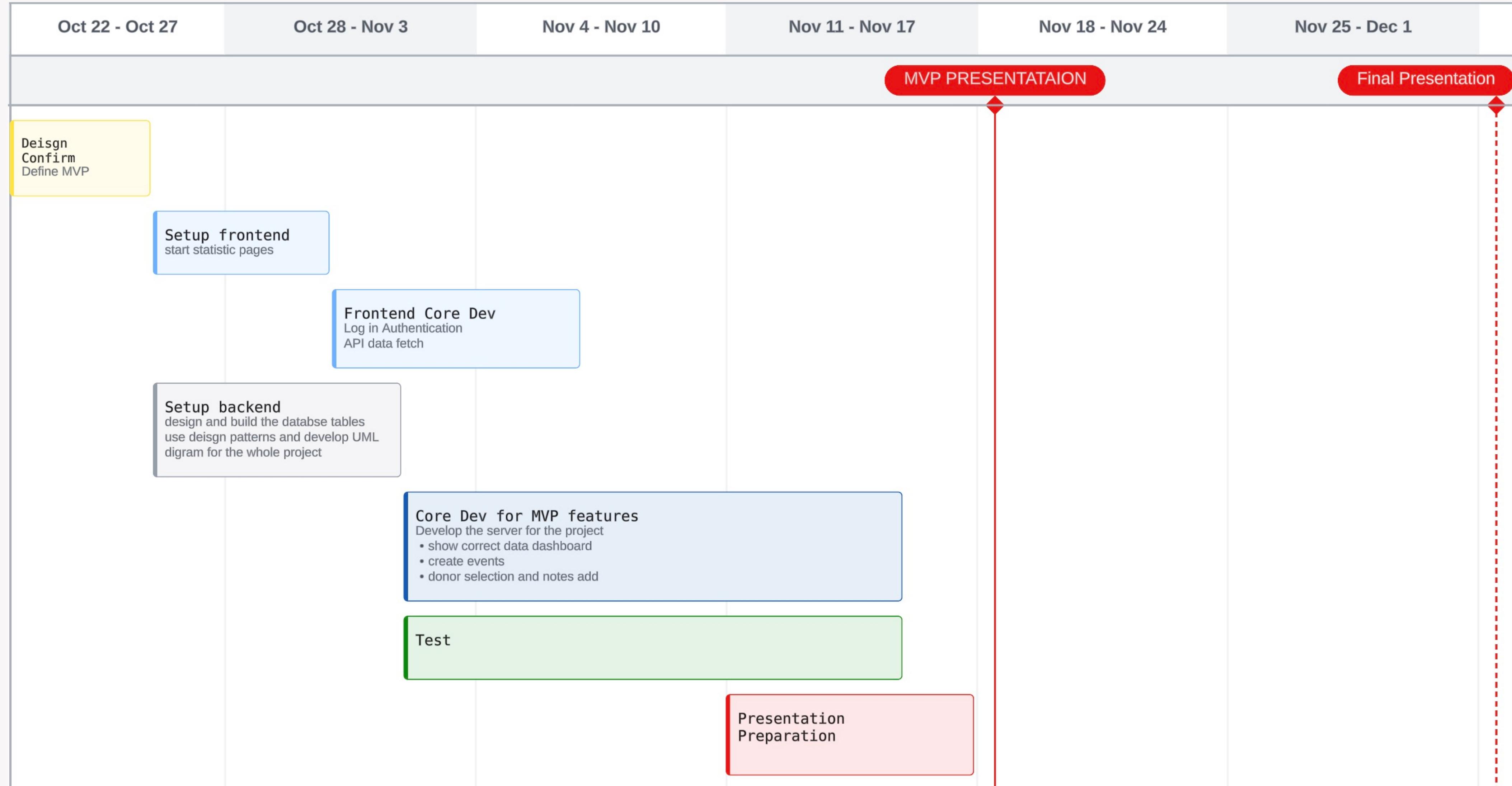
- 1. Best Practices for State Management
- 2. Implementing Real-Time Communication Features

**Areas for Further  
Learning:**

- 1. Appropriate State Management Tools
- 2. Real-Time Two-way Communication Tools



# Timeline



# Help us

# What we will achieve

Client Workflow Confirm

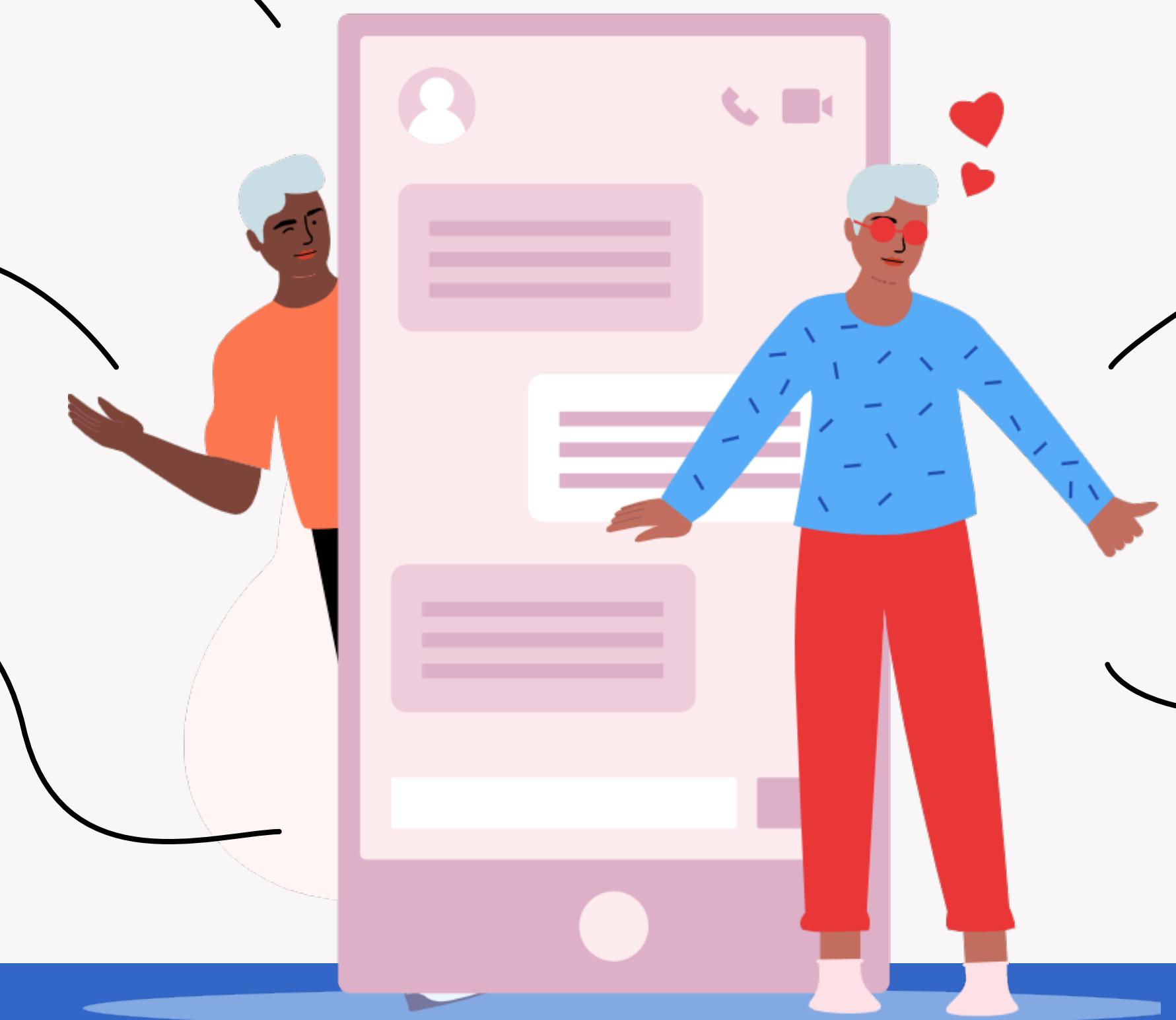
User Test Implement

Feedback from  
Event Organizers,  
Fundraisers,  
and Data Specialists

Enhanced Efficiency

Data-Driven Decisions

Future-Proofing



# Thank You!

