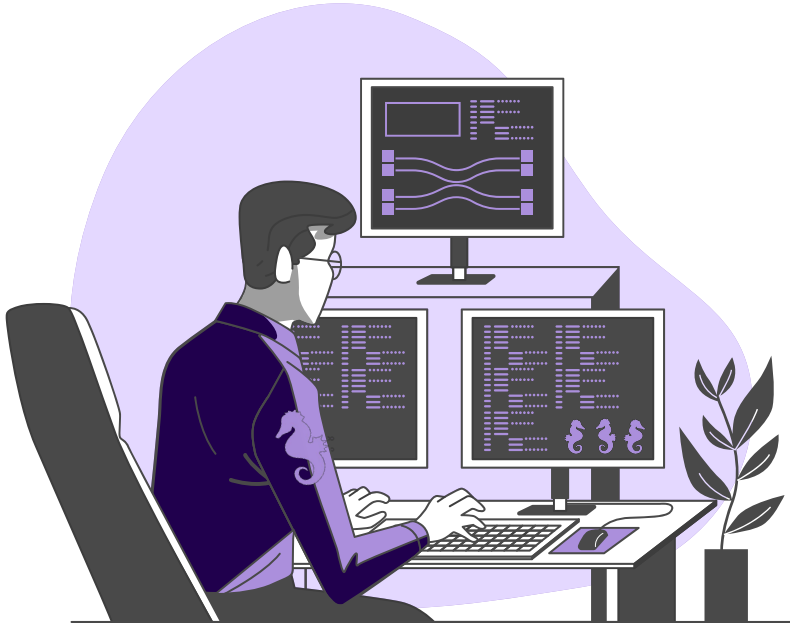
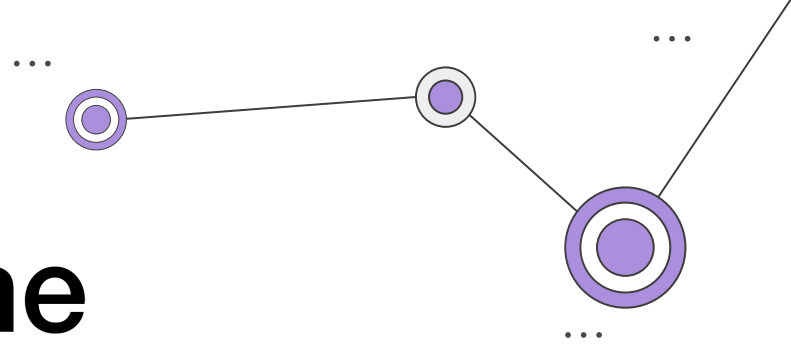




VolunteerOne



Genaro Lopez Baez
Dillon Harder
Michael Lazeroff
Carmen Lee
Cera Samson
Cicelia Siu
Edward Sung
Mathis Tessier
Matthew Yapjoco
David Zeleniak

The Team



Carmen
Lee



Cera
Samson



Matthew
Yapjoco



Mathis
Tessier



Genaro
Lopez Baez



Michael
Lazeroff



Edward
Sung



Cicelja
Siu



Dillon
Harder



David
Zeleniak...

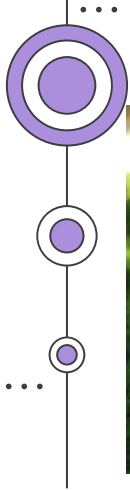


Table of Contents

01
...

Background

02
...

Requirements

03
...

Design

04
...

Prototype

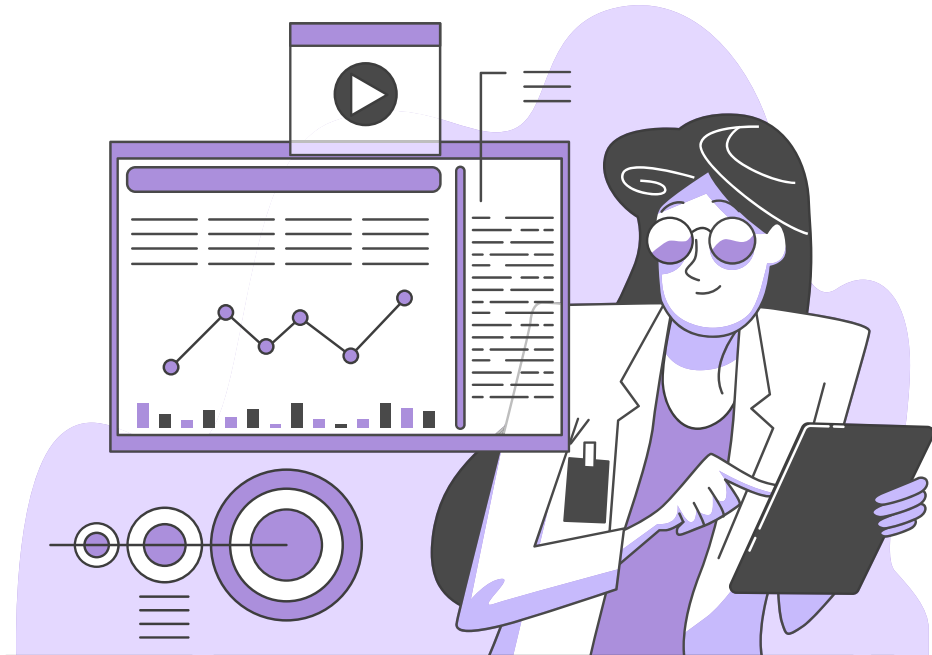


Table of Contents

05
...

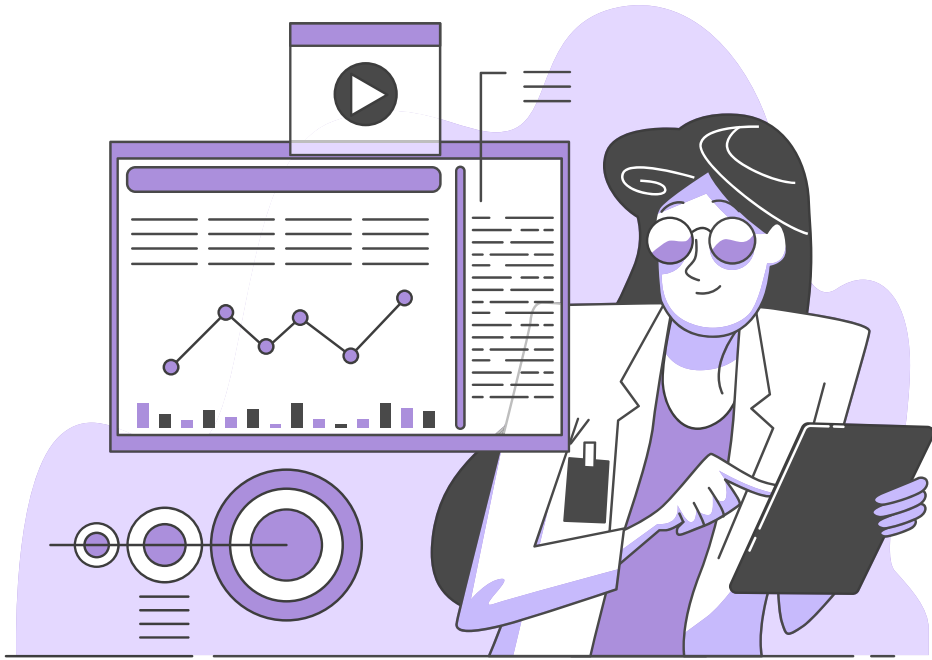
User Study

06
...

Contributions

07
...

Conclusion





01

Background



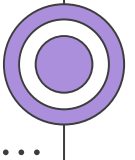
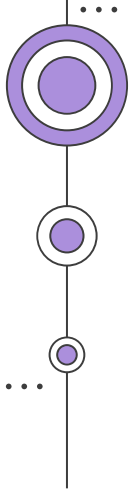


VolunteerOne

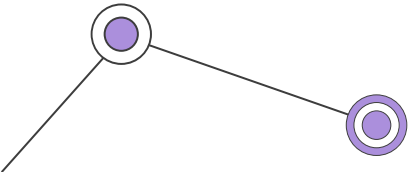
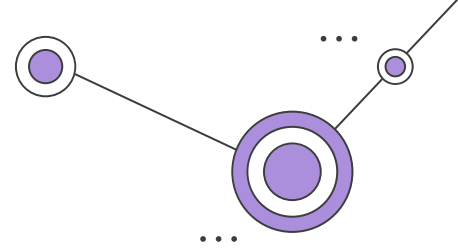
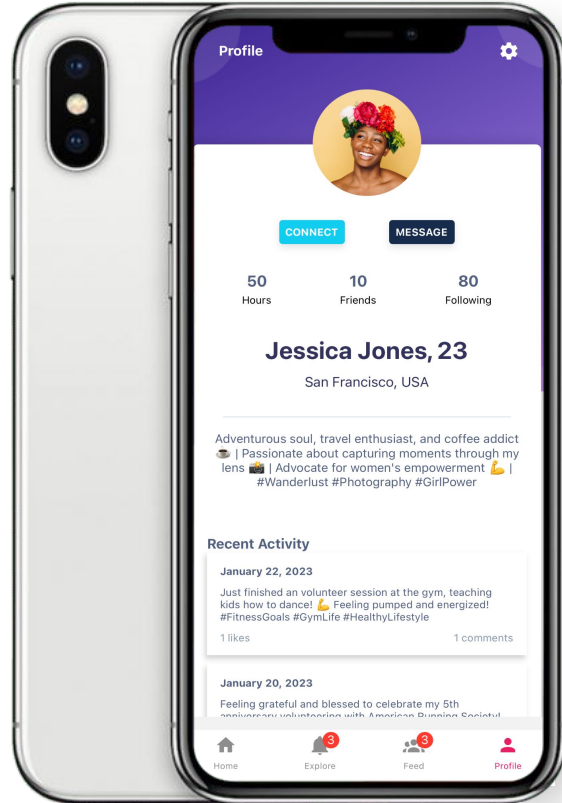
A streamlined mobile platform for your volunteering needs

An open source, centralized hub for volunteers and organizations

...



Preview



Motivation

Challenges

- Finding relevant volunteer opportunities
- Finding volunteers with relevant skills
- Scheduling
- Outreach marketing (organizations)
- Volunteer retainment

Solution

- Connect volunteers and organizations
- Streamline the application and scheduling process
- Socialize volunteering
- Market opportunities and events



Goals

01

Simplify

the process of finding
volunteering opportunities

02

Provide

robust features to address
challenges with volunteering

03

Gamify

and socialize the
volunteering experience

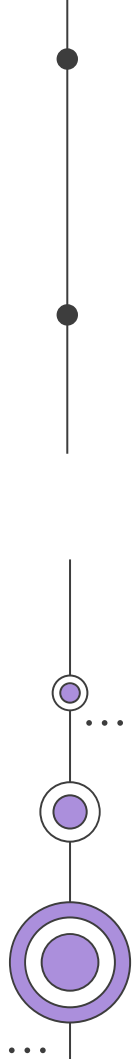
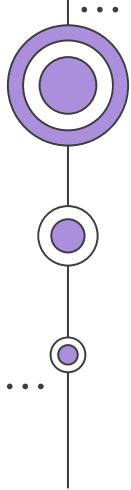
04

Connect

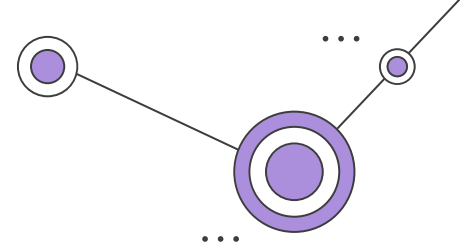
volunteers with
organizations they value

02

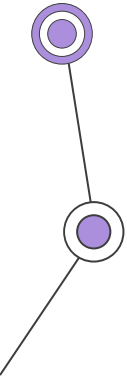
Requirements



Non-functional Requirements



- Cross Platform (iOS, Android)
- Designed using JavaScript and Go
 - Dependencies: React Native, Expo, Gin, GORM, and Mockery
- MySQL Database
- Containerized with Docker
- Digital Ocean Server



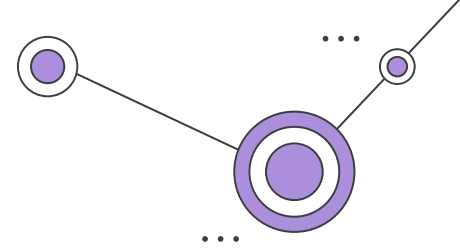
Functional Requirements (Frontend)

- Screens
 - Account Creation/Registration
 - Announcements
 - Explore
 - Events
 - Profiles
 - Friends/Following



Functional Requirements (Backend)

- Organizations
 - Creation, Roles, Adding Members, Interests
- Events
 - Creation, Sign Ups
- Social
 - Organization & Event Channels, Friends, Activity





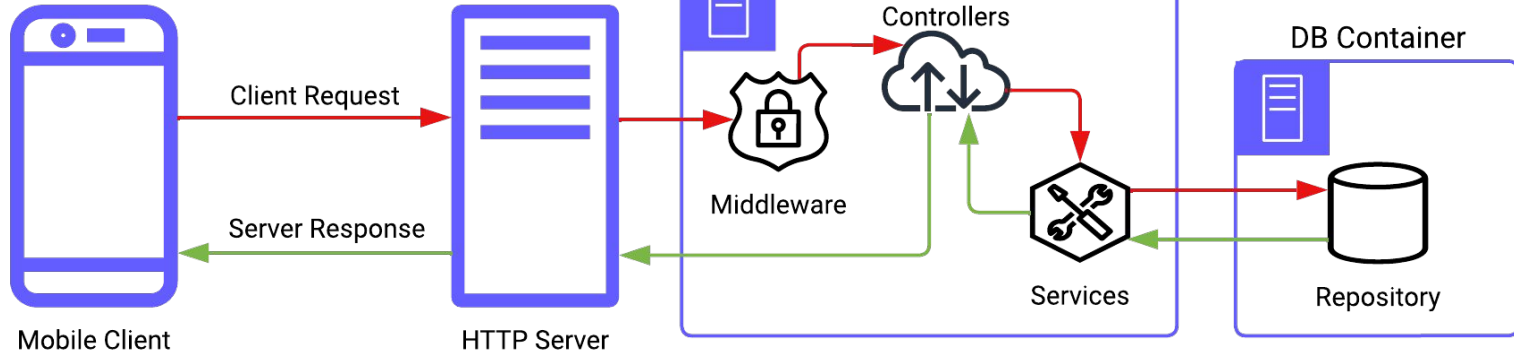
03

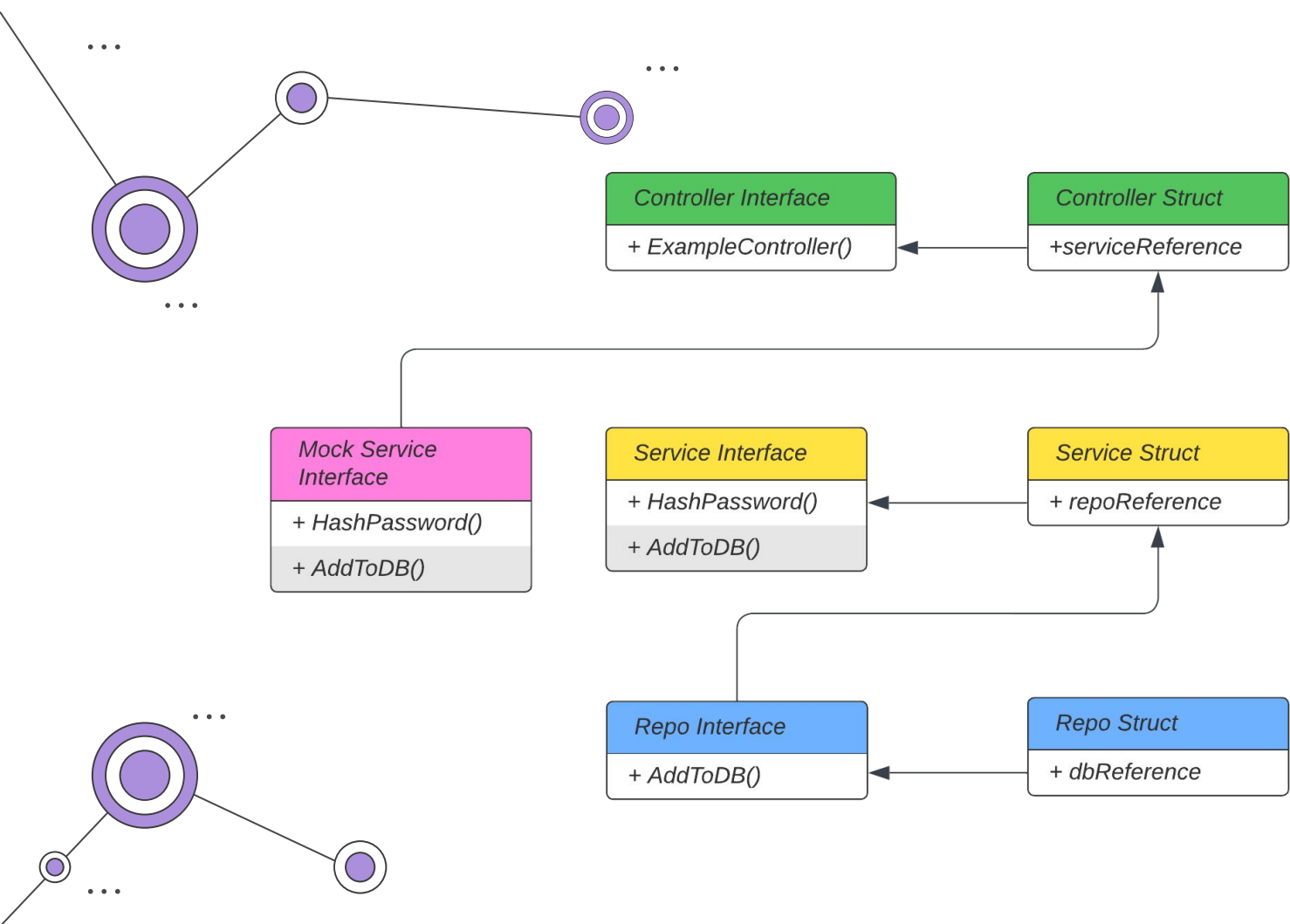
Design



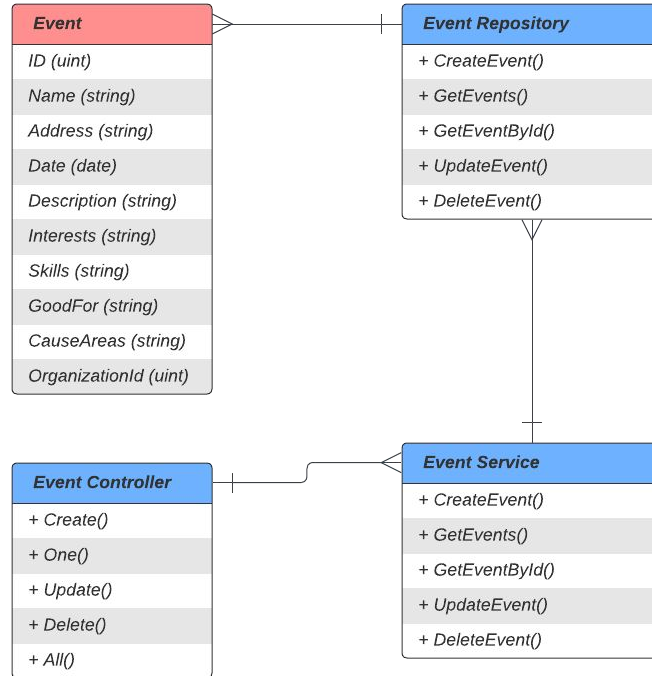
Architecture

1. Mobile app makes a request to the server.
2. Server handles the request and returns the relevant data back to the mobile app.

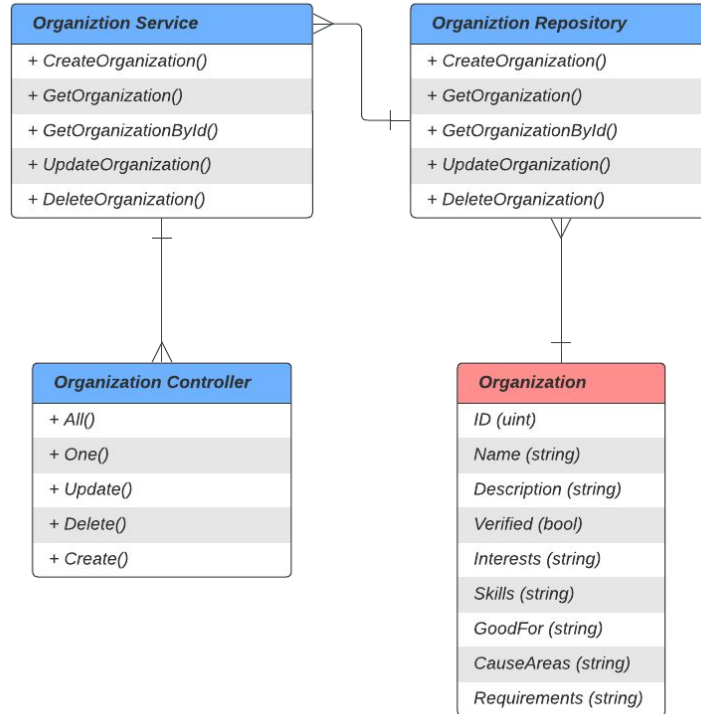




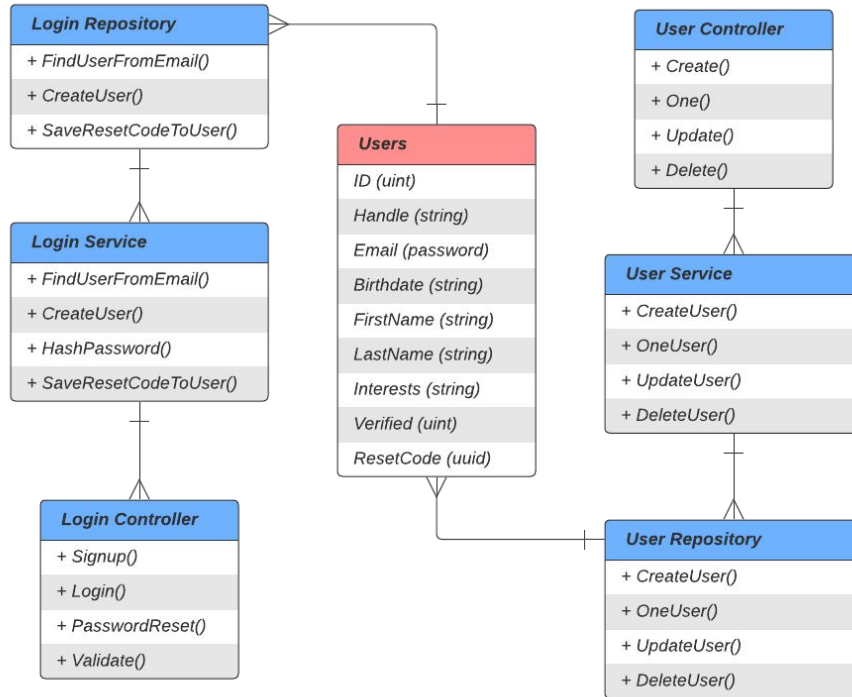
Events



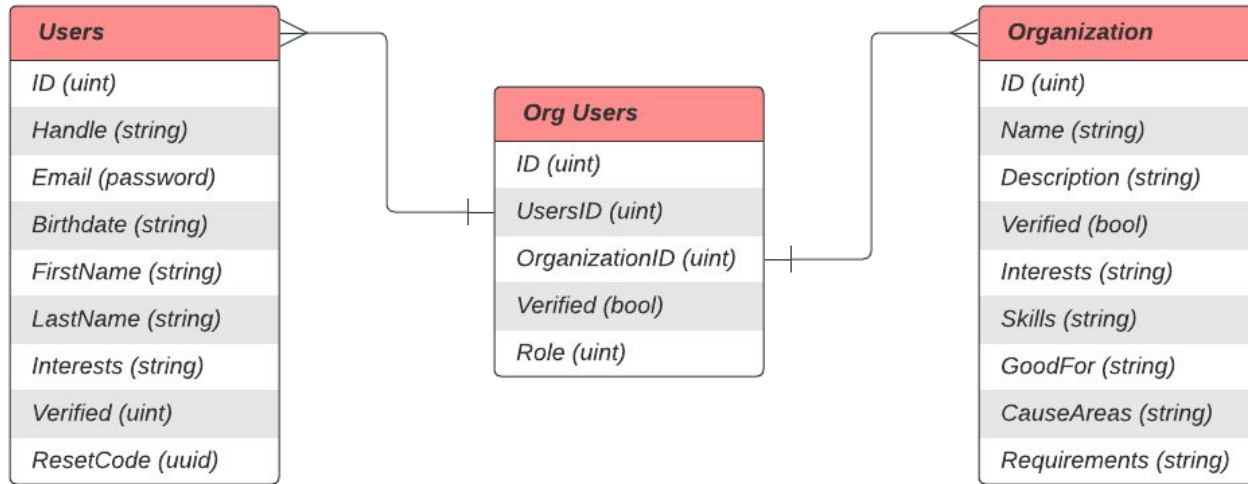
Organizations



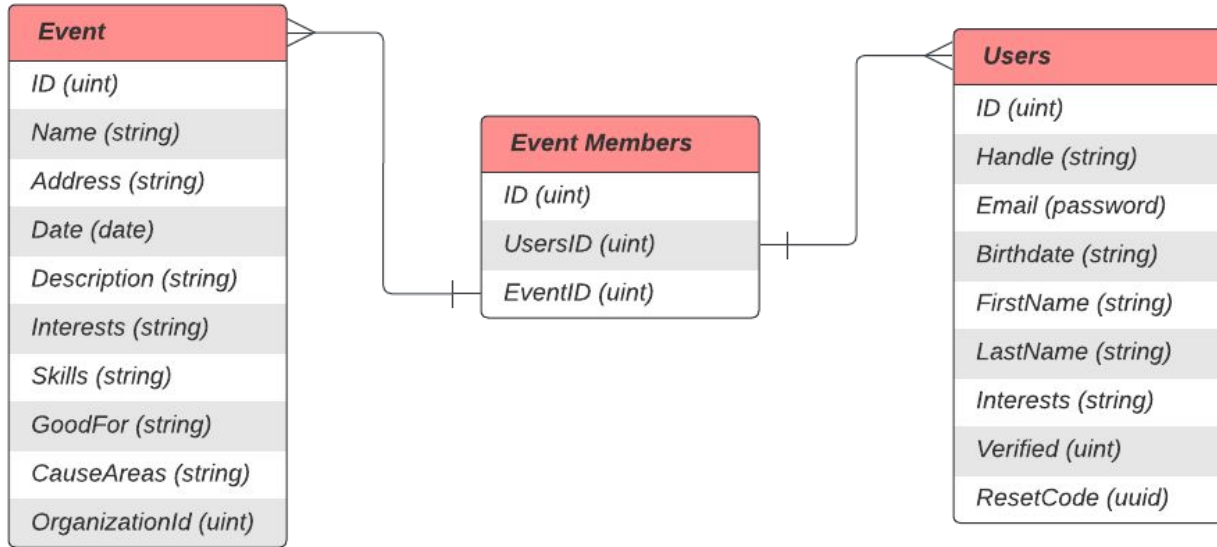
Users



Organization Members



Event Members





04

Prototype



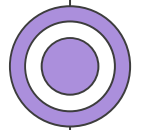
Demo Video





05

User Study



Questions

Background Questions

Who are you?

Volunteer, organizer, or both?

...

Challenges

Finding events...

Finding volunteers...

...

Anything else?

UI/UX of prototype

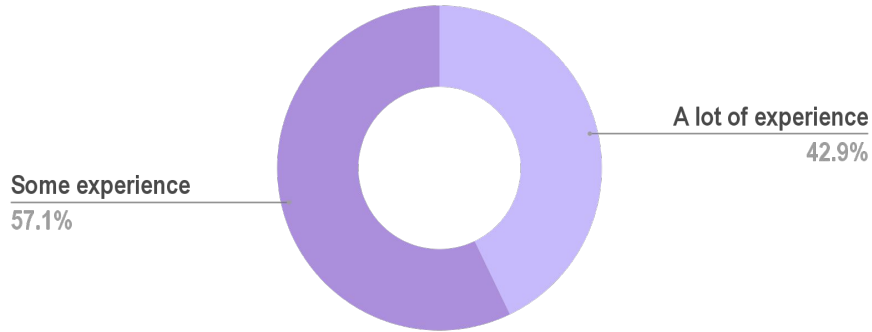
Helpfulness of the features...

Feature implementation...

...

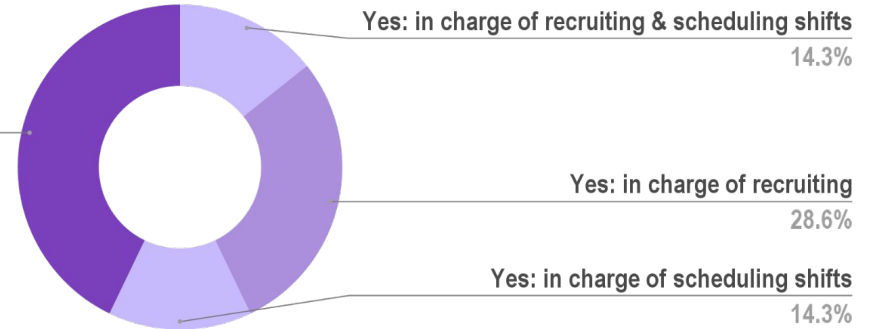
Demographics

How experienced are you with volunteering?



No
42.9%

Have you ever had to organize volunteers for an event?



Results

Social Tab:

Pros


- More inclined to volunteer if their friends were volunteering
- Social media has a strong influence the current generation

Cons

- Not everyone cares for social media in volunteering

Announcements

+ New Announcement

 **Global Humanitarian Aid**
March 1


Help Pack Disaster Relief Bags
Come join us for a meaningful volunteer event where we will be packing disaster relief bags to provide aid to those impacted by natural disasters. From emergency shelters to families in need, these bags will contain essential items to help survivors during challenging times.

Volunteers will be assembling and packing bags with items such as non-perishable food, water, hygiene kits, first aid supplies, blankets, and other critical items. This is a hands-on opportunity to make a tangible difference in the lives of those affected by disasters. All ages and abilities are welcome, and no prior experience is necessary. Together, we can make a positive impact on communities in need. Join us for a rewarding day of service!

When: May 18, 2023

Where: Community Center, 123 Main Street, Anytown, USA

[Click to view event](#)

 **Habitat for Humanity**
February 2

Build & Improve Homes Community Day
Join us for a day of giving back to the community at the Build & Improve Homes Community Day!

Home Explore Feed Profile

Feed

+ New Post

 **Bryce Hansen**
March 1, 2021

Volunteering at the local soup kitchen was a heartwarming experience as I helped serve hot meals to those in need, witnessing the gratitude and appreciation of individuals who were struggling with food insecurity. The energy and camaraderie among the volunteer team at the soup kitchen event were infectious, as we worked together to prepare and serve nourishing meals to the homeless and underserved populations in our community.



8 Likes 3 Comments

Write a comment...

 **Volunteer One**

Home Explore Feed Profile

Results

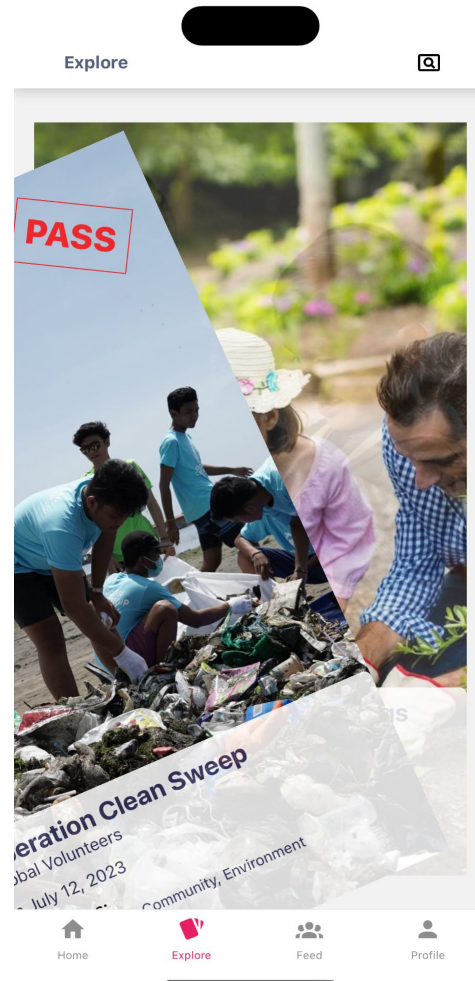
Quick-swipe feature:

Pros

- Feature for quick-look at events
- All important information on one screen

Cons

- Missing time that event ends or duration



Results

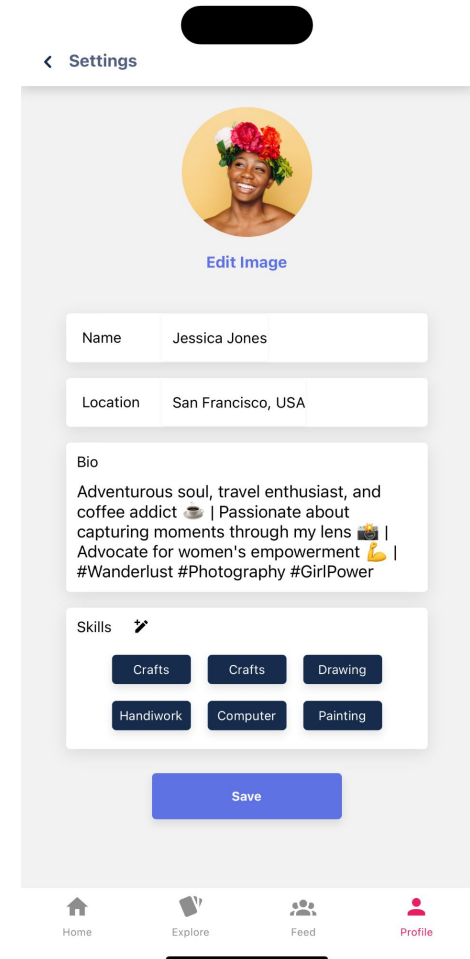
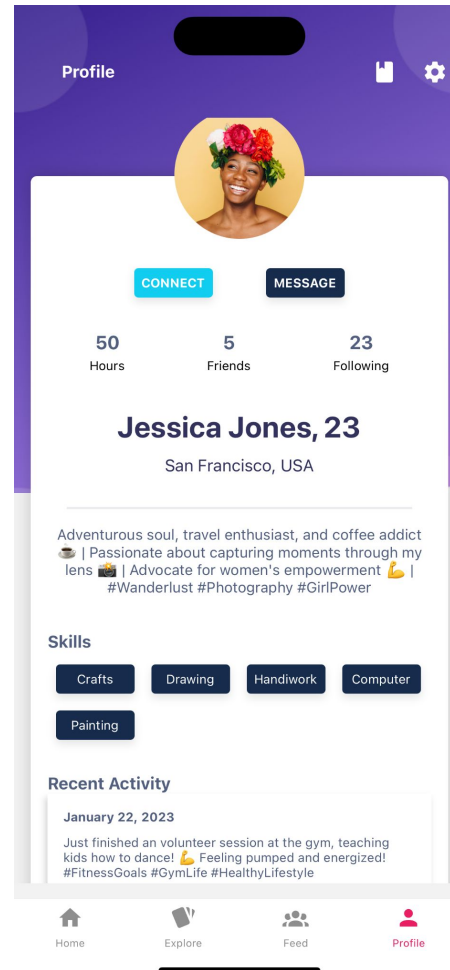
Profiles:

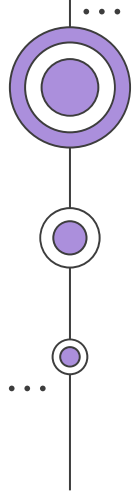
Pros

- Can include areas of passion/interest
- Reaching out from user to user is easier

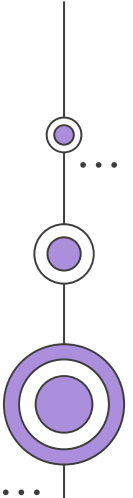
Cons

- Could be expanded for more information





06 Team Contribution



Frontend Team



Carmen
Lee



Cera
Samson



Matthew
Yapjoco



Mathis
Tessier



Genaro
Lopez Baez

Backend Team



Michael
Lazeroff



Edward
Sung



Cicelia
Siu

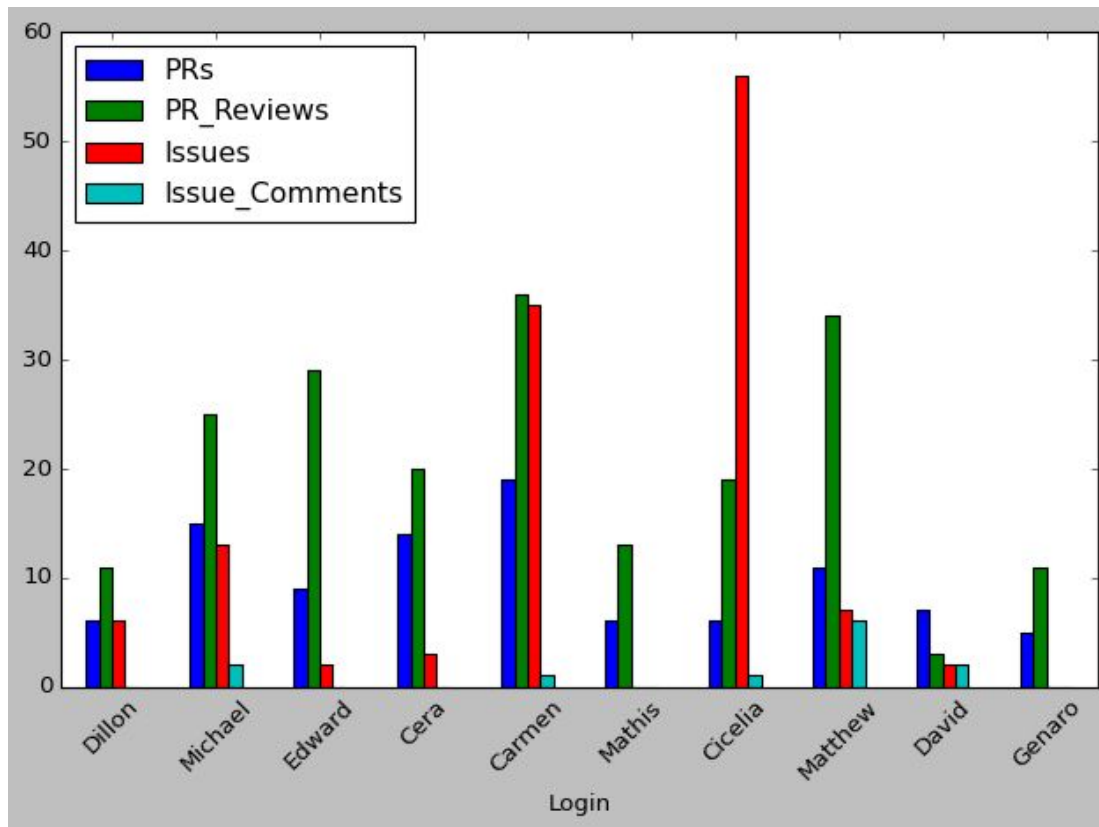


Dillon
Harder

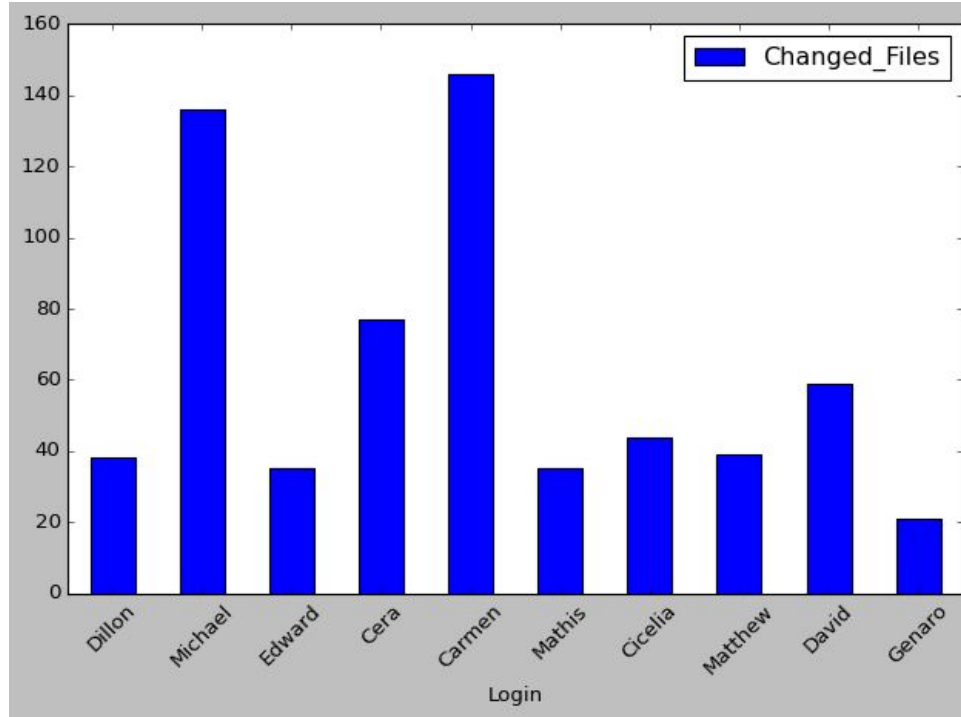


David
Zeleniak

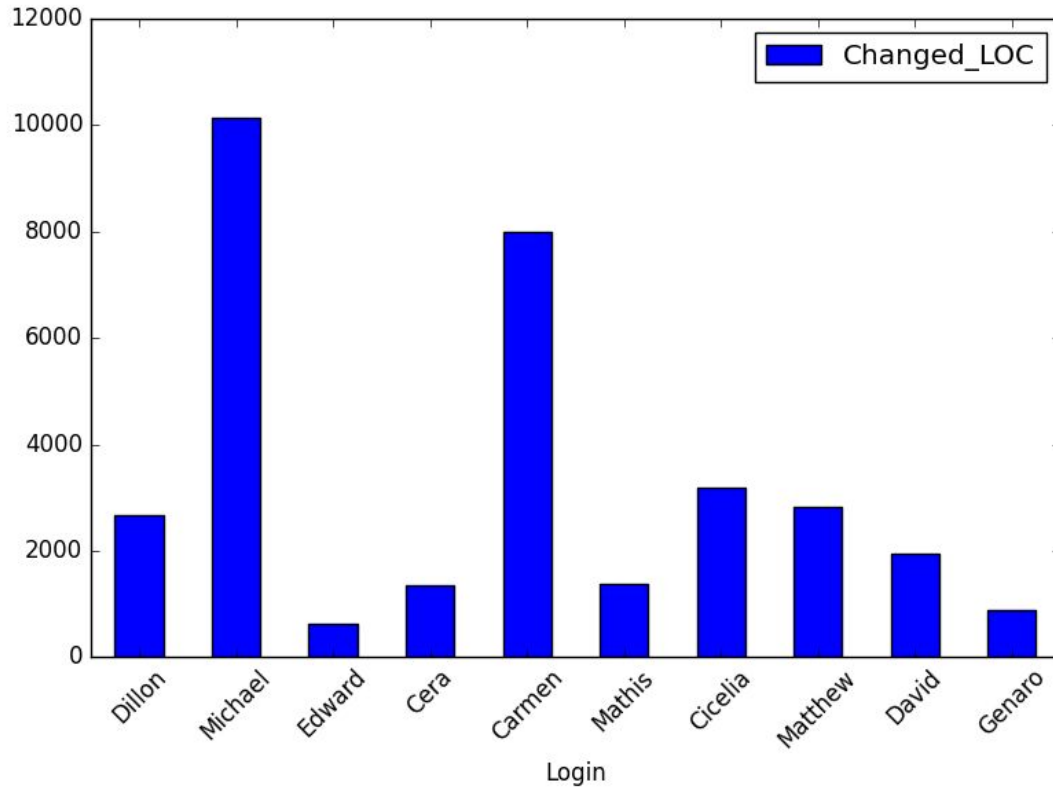
Pull Requests



Changed Files



Changed Lines of Code



Testing

	Controllers	Services	Repositories
Branch Coverage	100%	100%	100%
Statement Coverage	100%	100%	100%

Go Test and Gobco

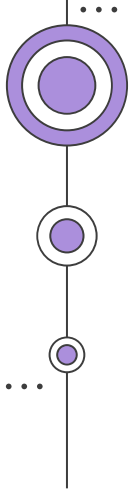
✓ Tests passed: 302 of 302 tests

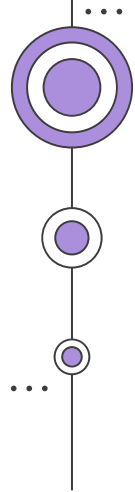
▣ <2 go setup calls>

```
→ backend git:(main) X gobco controllers
ok      github.com/VolunteerOne/volunteer-one-app/backend/controllers  0.195s
Branch coverage: 190/190
```

```
→ backend git:(main) X gobco service
ok      github.com/VolunteerOne/volunteer-one-app/backend/service      1.376s
Branch coverage: 0/0
```

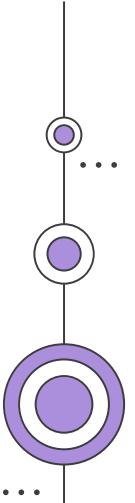
```
→ backend git:(main) X gobco repository
ok      github.com/VolunteerOne/volunteer-one-app/backend/repository    0.200s
Branch coverage: 60/60
```





07

Conclusion



Challenges & Expandability

Challenge 1

Overlooking key features

Challenge 2

Not deploying the backend from the beginning

Challenge 3

The lack of prebuilt tooling with Go web frameworks

Challenge 4

Lack of communication between teams

Expansion 1

Self-cancellation feature

Expansion 2

Skill-matching events

Expansion 3

Being able to volunteer as a group

Expansion 4

Location-based events

Acknowledgements & Recognition

Advisors

- Dr. John Businge for support during development
- Molly Marks from the UNLV College of Engineering

Survey Participants

- Leora Dumanlang
- Kelly Chicas
- Matt L.
- Alyson P.
- Omari Ware
- Najmah Nassri
- Jeremy

References

- [1] Remarkable outcomes. VolunteerMatch. (n.d.). Retrieved March 28, 2023, from <https://www.volunteermatch.org/>.
- [2] Team, V. (2022, September 19). 9 Problems You May Be Facing With Your Current Volunteer Management Process. Volgistics. Retrieved March 28, 2023, from <https://www.volgistics.com/blog/problems-current-volunteer-management-process/>.
- [3] Bussell, H., & Forbes, D. (2002). Understanding the volunteer market: The what, where, who and why of Volunteering. *International Journal of Nonprofit and Voluntary Sector Marketing*, 7(3), 244-257. <https://doi.org/10.1002/nvsm.183>.
- [4] Bang, H., & Ross, S. D. (2009). Volunteer motivation and satisfaction. *Journal of venue and Event Management*, 1(1), 61-77. <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=57bcd374bf289b02f99651d06adda4bdde4208f5>.
- [5] McAllum. (2014). Meanings of Organizational Volunteering. *Management Communication Quarterly*, 28(1), 84-110. <https://doi.org/10.1177/0893318913517237>.

Thanks!

Any questions 🐎

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