## PDGo

Alberto B.

Kevin O.

Elias S.

Tommy Y.

Cassidy B.

Fernando P.

Qian W.

Andrew Z.

Mina M.

Elizabeth S.

Yin W.



### The Team

#### **Students**

Tommy Y. (Main Lead)
Cassidy B.
Mina M.
Fernando P.

Kevin O. (Sub-Lead) Elias S. (Sub-Lead) Alberto B. Elizabeth S. Andrew Z. (Sub-Lead)
Qian W.
Yin W.

#### Liaisons

Deepak Budwani Mark Perez Brent Modell AJ Voisan Xavier Narravo Jalena Jones

#### Advisor

Chengyu Sun

### Santa Barbara Public Defenders



**Mission**: to protect and defend the rights of our clients through legal representation of the highest quality.

- Provide legal services to people who qualify for assistance across the cities of Santa Maria, Santa Barbara, and Lompoc.
- 130 staff members
- 54 attorneys



- New HR System coming in 2024
- Outdated recording systems
- Lax recordkeeping
- Scattered notifications



### **Project Goals**

Create minimum viable app for the average user to rollout alongside the new HR system

Phase 1 (Fall Semester 2023)

#### Phase 2 (Spring Semester 2023)

Clean up User Interface, receive feedback and debug, and assign accessibility features



# Yin Win



#### **Project Planning**

Team Split into 3 subteams



#### **Specify Components**

Team Leads and Liaisons specify necessary system components

#### Assign Components to Teams

Team Lead assess workload of subteam and distributes new components among the teams

#### Subteam Lead breaks component into tasks

Subteam Lead adds new tasks to ClickUp with information and deadlines

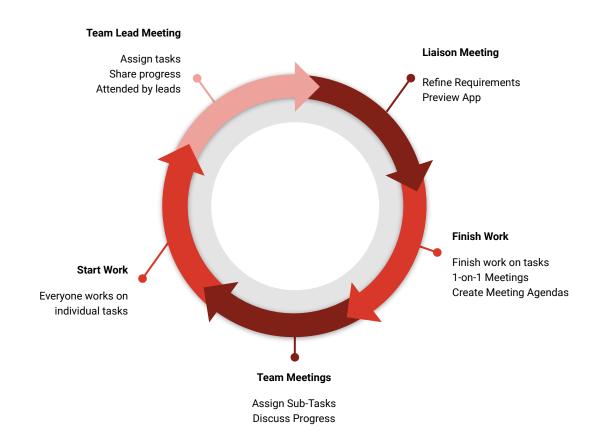
#### Subteam Lead Assigns tasks

Subteam Lead assigns subteam members new tasks

#### Work on tasks and provide updates

Subteam members work on assigned tasks, and provide updates during the subteam meetings

#### **Project Communication Workflow**





## Andrew Zou

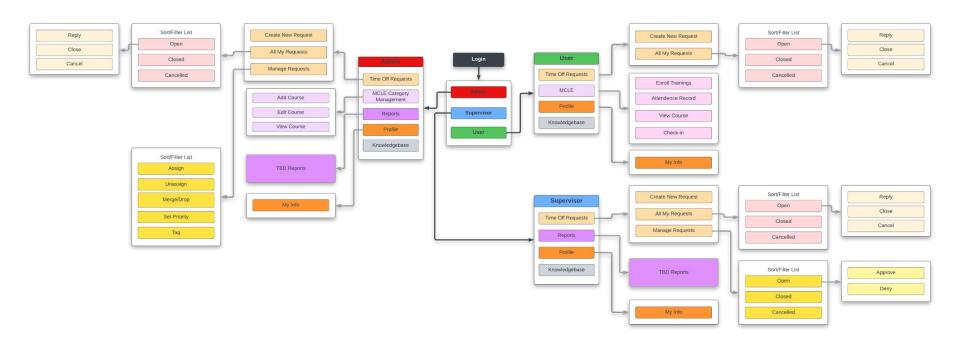


- Digitizes records
- Allows for stricter record keeping
- Automated HR and administrative processes





#### **UI Flow Model**





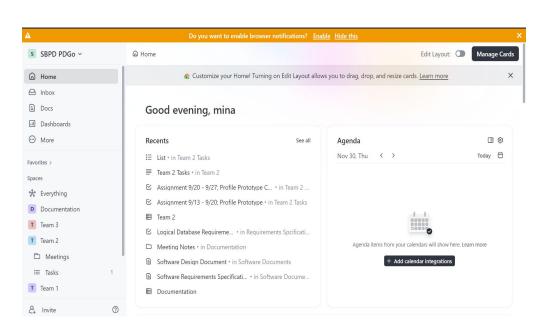
## Mina Mekhaiel

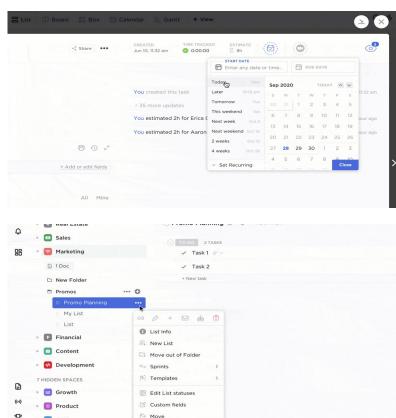


#### Streamline your work with **ClickUp**

- Task Management
  - o Create, assign, and track tasks.
- Project Planning
  - o Tracking progress over time.
- Team Collaboration
  - o Comment on tasks, share documents, and integrated chat.
- User Friendly
  - Interface that is easy to navigate.
- Customization & Integration
  - Users can customize their workspace and workflows.
- Why choose ClickUp
  - Flexibility: suits teams of all sizes.

#### **Core Features**





Mina Mekhaiel



## Elizabeth Silvestre

#### **Project Requirements**

- Main Requirements
  - Intuitive for both experience and new hires
  - Access Control
  - General Availability
  - Accessibility (Section 508)

- Other Requirements
  - Use PowerApps
  - Mobile-Friendly
  - Notification System

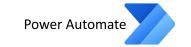






#### **Technology Used**





- Development Tools
  - Microsoft PowerApps
  - Microsoft PowerAutomate
  - Microsoft SharePoint
  - Microsoft PowerFx
- Project Management Tools
  - ClickUp
  - GitHub
- Communication
  - Discord
  - Microsoft Teams/Zoom









## Kevin Ornelas



### What is PowerApps?

- PowerApps is part of Microsoft's PowerPlatform and is used to create Business Applications
- Designed for non-developers with a low-code environment
- Leverages Microsoft 365 and "Connectors" for external communication
- Leverages PowerFx for internal scripting



#### Pros to PowerApps

- Cross-Platform compatibility for most Mobile devices, Browsers and major
   Operating Systems.
- Integration to Microsoft 365 Services
- Adheres to Microsoft security and compliance standards
- Allows developers to create reusable components and templates.
- No setup required.
- Low- code environment.
- Can create a wide range of functions and layouts.
- Cost effective compared to traditional development methods.



#### Cons to PowerApps

- More complex functionalities would require Power Automate.
- Depends on Microsoft ecosystem
- Managing versions of the app can be a challenge.
- Cannot access or edit the app unless connected online.
- Licensing costs for an expanded set of functions.
- Time-consuming to implement multiple apps into one.



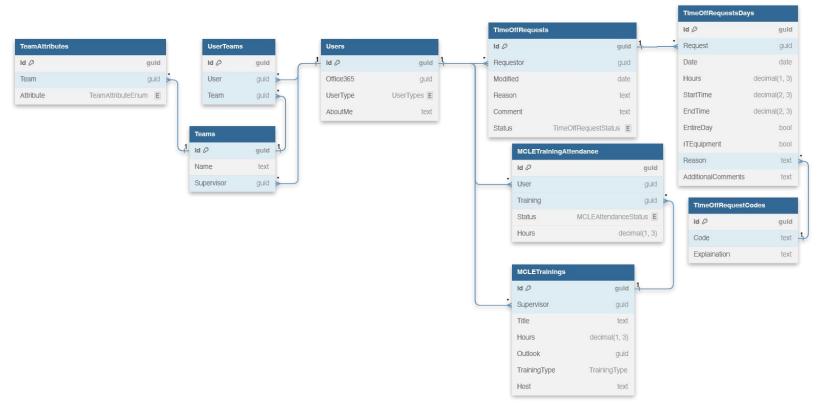
## Elias Schablowski



### What is Microsoft Sharepoint?

- "Websites for Business"
- Lists are a sort of "Database" in SharePoint
- Native connector
- Lists can store:
  - People
  - Numbers
  - Text
  - References
  - And more
- Nosql, uses ODATA queries

#### **Database Schema**



Made using <u>DBDiagram.io</u>

#### **SharePoint Lists**

Users

Teams

Users-Teams

TimeOffRequests

TimeOffRequestDays

TeamAttributes

MCLETrainings

MCLETrainingAttendance

RequestCodes

Facility Request

'	ID ∨	Created ∨	$Modified \mathrel{\vee}$	Reason $\vee$	Status ✓	${\sf Comments} \mathrel{\vee}$	Requester ∨	Days $\vee$
1	1	October 5	Yesterday at 7:43 PM	Text input	Cancelled	Closed Request: Previous comment:	8	1
2	2	October 11	October 20		Denied	Switched to deny: ††† Previous comment: Switched to approve: Accident Previous comment:	8	
3	3	October 12	October 20		Approved	yes	8	
4	4	October 12	October 20	***	Denied	Switched to deny: tree8 Previous comment: Switched to approve: tree7 Previous	8	
Ę	5	October 12	November 17	test2	Cancelled	Closed Request: Previous comment:	8	
6	6	October 12	October 20		Cancelled		9	
7	7	October 12	October 20		Approved	tree	8	

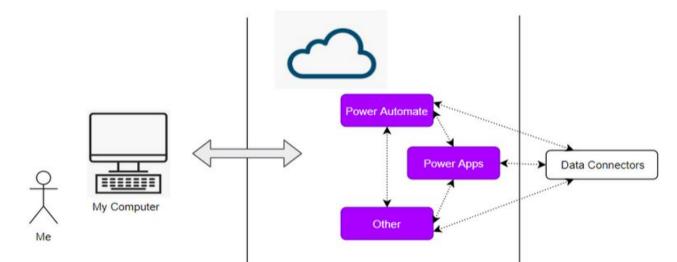


# Cassidy Barron

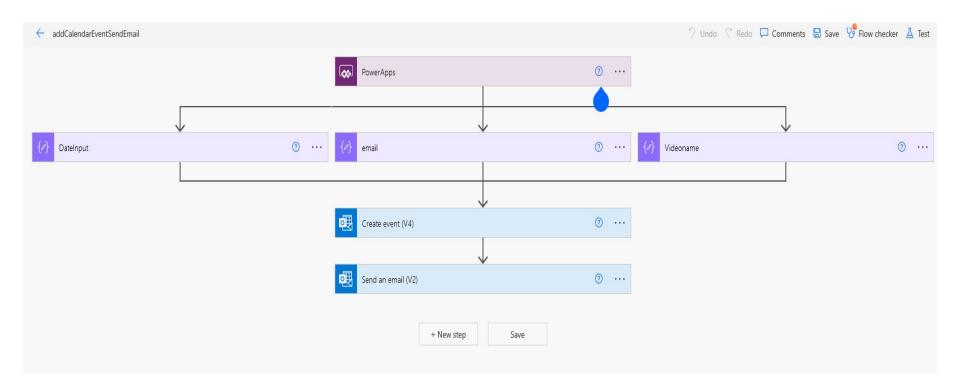


#### What is Power Automate?

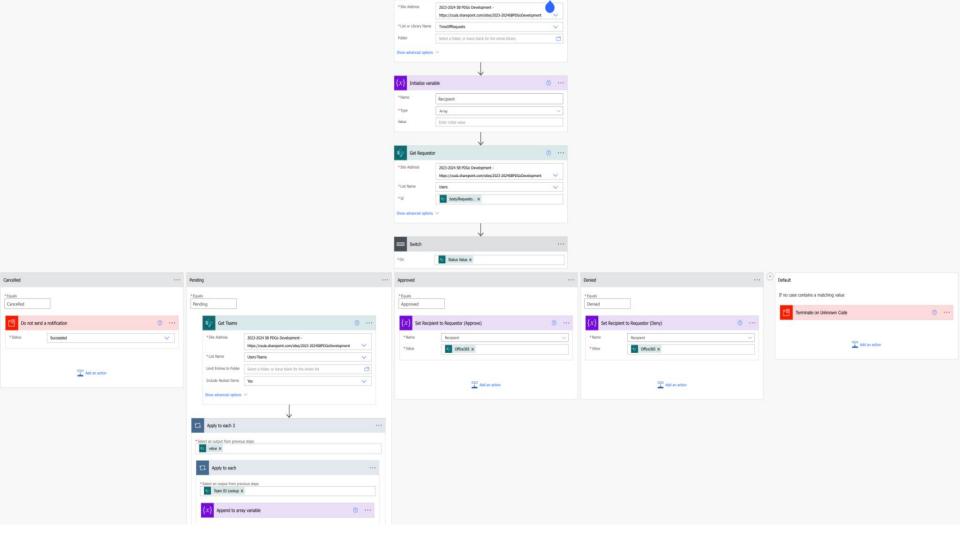
- Cloud Workflows
- Allow for triggered runs to run outside the client device
- Offers Automation for time consuming tasks
- Offers higher uptime

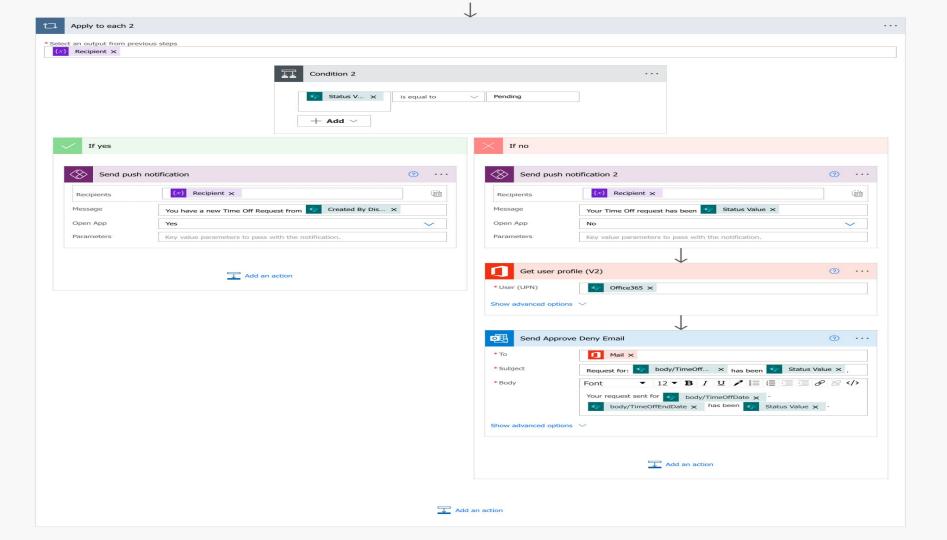


#### Scheduling Events on a Calendar Example



addCalendarEventSendEmail Run(TimeNDate.Text, User().Email, NameofVideo.Text)







## Fernando Perez

#### **Current Progress**

#### UI design

- Responsive design for device variety
- Functions triggered by user input and form submission.

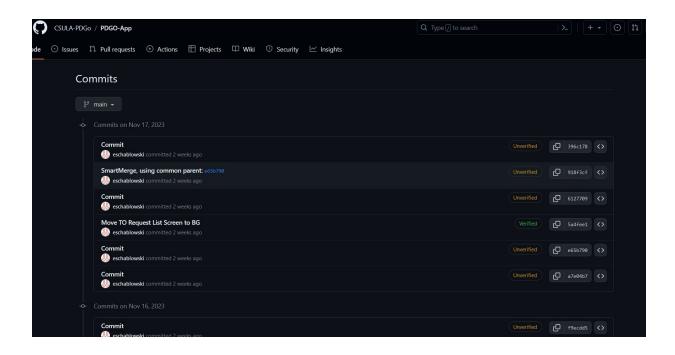
#### Database System

- Microsoft SharePoint lists for secure storage of sensitive data.
- Connect the list to the Power App UI to Store and pull data.

#### Github

- Created a Repository to maintain all builds of PDGo.
- All of PDGo's developers can make changes to the build at the same time without issue.

### Our GitHub Page



Link: <a href="https://github.com/CSULA-PDGo/PDGO-App">https://github.com/CSULA-PDGo/PDGO-App</a>



# Qian Wang

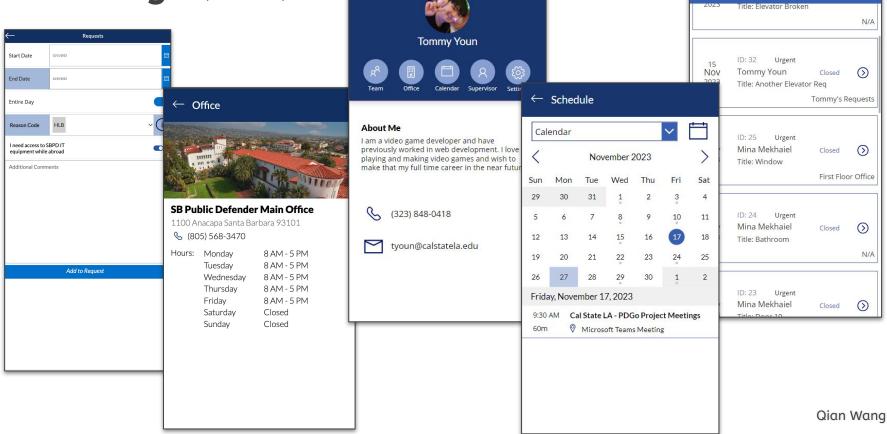
#### **UI** Design

 Stands for User Interface design, is the process of designing interfaces in software or computerized devices

 UI design include both the visual design aspects (like layout, colors, typography, and icons) and the functionality( how users interact with the app and the overall user experience) **primary goal** is to make the user's interaction as simple, efficient, and enjoyable as possible.

A well-designed interface not only looks good but also enhances usability, accessibility, and user satisfaction

### UI Design (WIP)



**Facility Requests** 



## Alberto Barboza

### Challenges faced

- PowerApps
  - Responsive Design is non-default
  - Only allows 1 person to edit at a time without Git (experimental)
  - o Only has experimental VCS support, and sometimes overrides work in collaborative mode
- Time Conflicts
- Progress Check
  - o Some teams used incompatible methods which need some redesign to be responsive
  - Some confusion over the status of Github integration
  - Subteams reliant on subteam lead, otherwise progress diverted

#### **Future Work**

- Homogenize UI
- Ensure PDGo is accessible for users with disabilities
- Test for concurrency issues
- Review feedback and bug reports from users
- Create training material
- Ship application to SBPD



# Thank you!



Q&A

**ANY QUESTIONS?**