



PDGo

A quick solution to internal management



Sponsored by Santa Barbara Public Defender Office

Presented by Tommy Youn, Fernando Perez, Mina Mekhaieel, Yin Win, Elizabeth Silvestre, Kevin Ornelas, Elias Schablowski, Qian Wang, Alberto Barboza, Cassidy Barron

The Team

Team 1

Tommy Y.
Cassidy B.
Mina M.
Fernando P.

Team 2

Elias S.
Alberto B.
Elizabeth S.

Team 3

Kevin O.
Qian W.
Yin W.

Liaisons

Deepak Budwani Brent Modell
Mark Perez AJ Voisan

Xavier Narravo
Jalena Jones

Advisor

Chengyu Sun



Overview



1

Background

2

Motivation

3

Requirements

4

Design

5

Implementation

1 - Background

Presented by Tommy Youn



Santa Barbara Public Defender (SBPD)

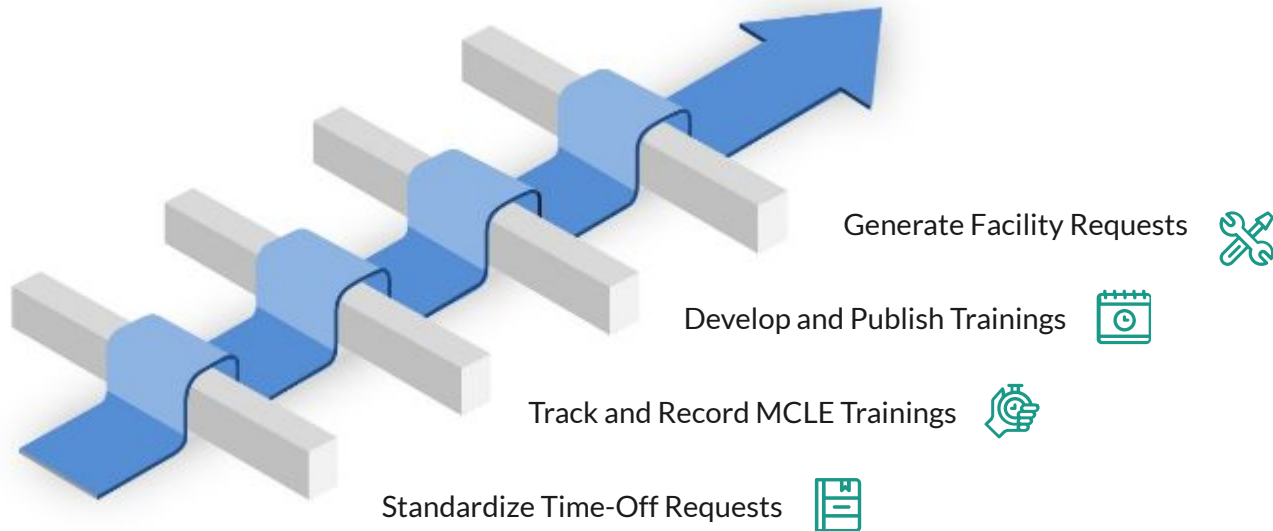
A public legal services provider located in Santa Barbara.

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

- Provides lawyers, legal office professionals, investigators, social workers, IT professionals, and others
- Services are provided across Santa Maria, Santa Barbara, and Lompoc



The Need for PDGo



2 - Motivation

Presented by Qian Wang



Current System @ SBPD



Relies on Disconnected Platforms



Overload of paperwork and emails



Slow processing + Difficulty

Our System



Improve Accessibility



Enhance Efficiency



Improve Transparency and
Communication

3 - Requirements

Presented by
Mina Mekhaiel & Cassidy Barron



Overview



Functional Requirements



Non-functional Requirements



Logical Database Requirements



External Interface Requirements



Functional Requirements



USER

- ✓ Training Registration
- ✓ Time Off & Facility Requests
Submission
- ✓ Profile

ADMIN

- ✓ Training Management
- ✓ Time Off & Facility Requests
Management
- ✓ Reporting & Tracking Data
- ✓ All User Functionality too

Non-functional Requirements

Usability

- UI/UX design for ease of use

Compatibility

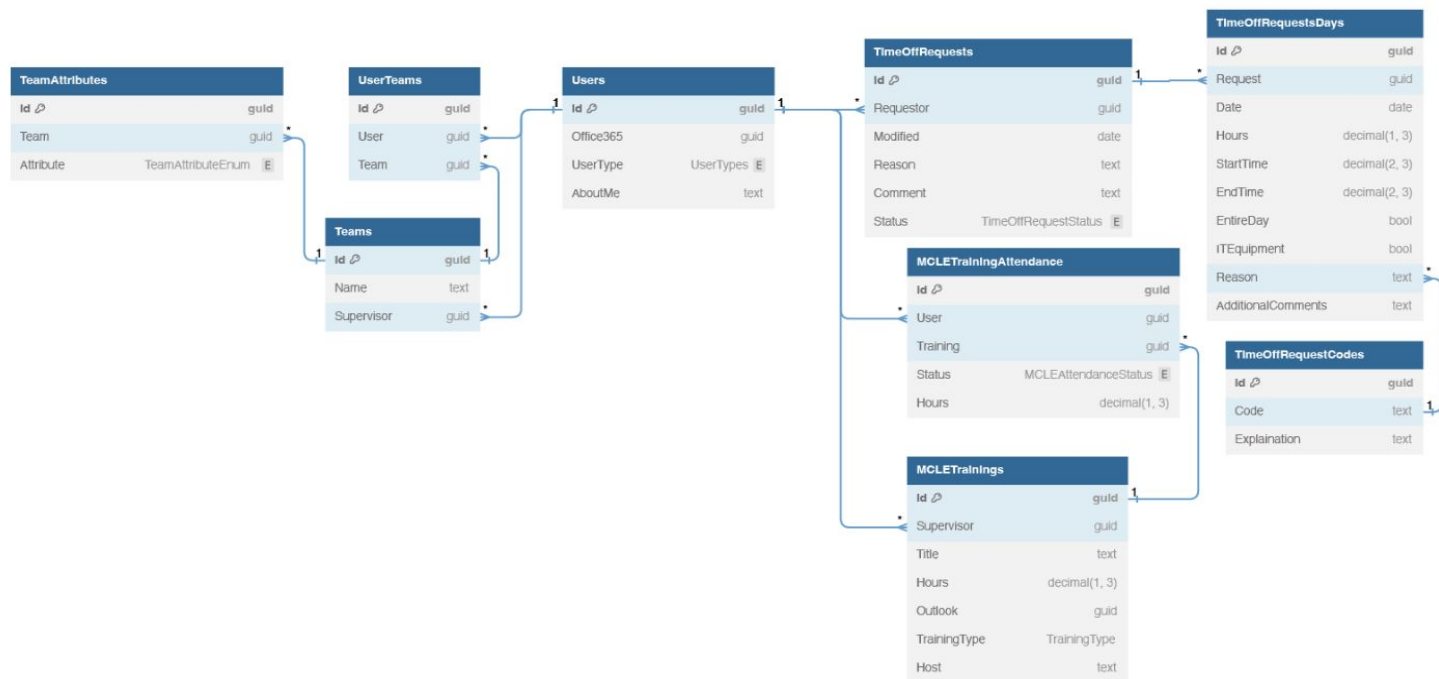
- Compatible for various devices and screen sizes

Performance

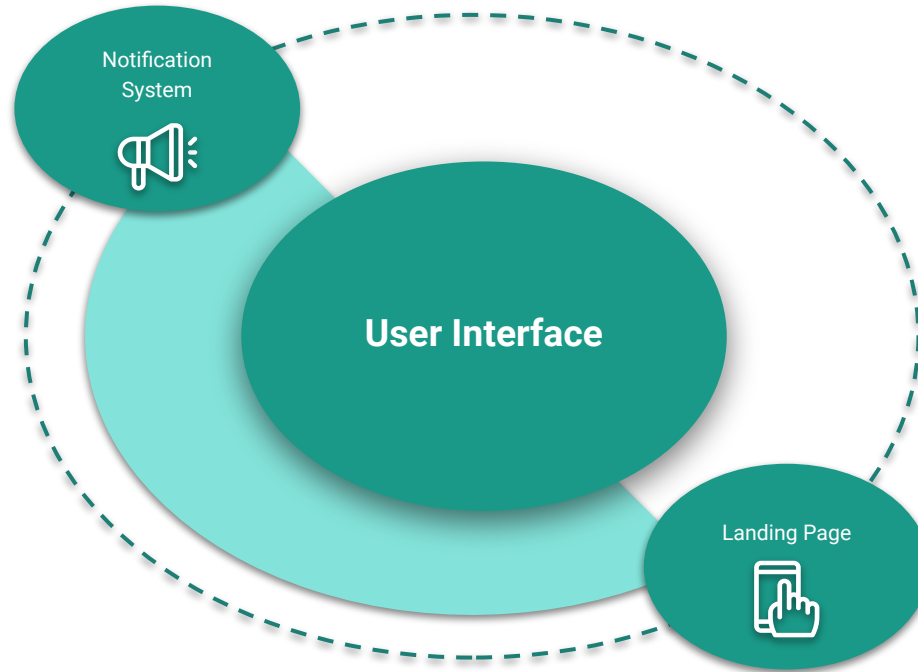
- Performs well under expected load with response times



Logical Database Requirements

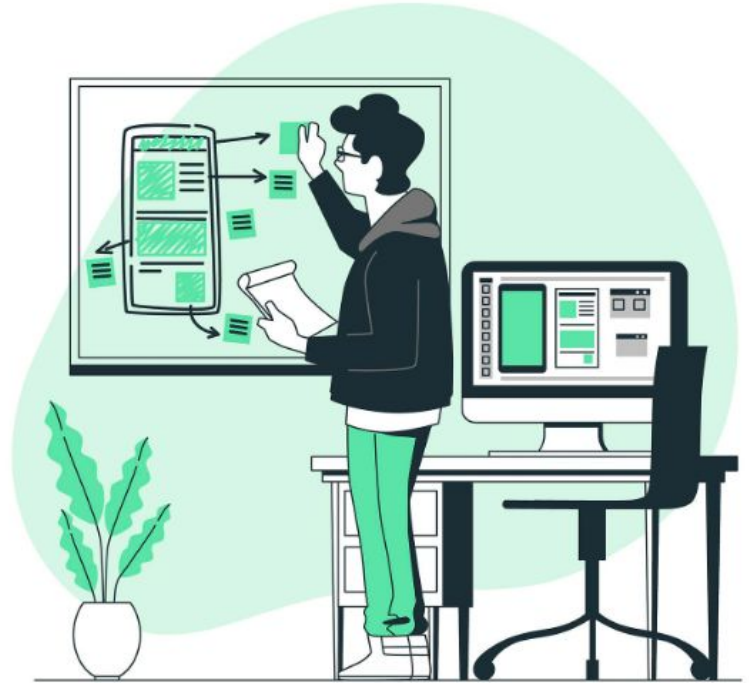


External Interface Requirements

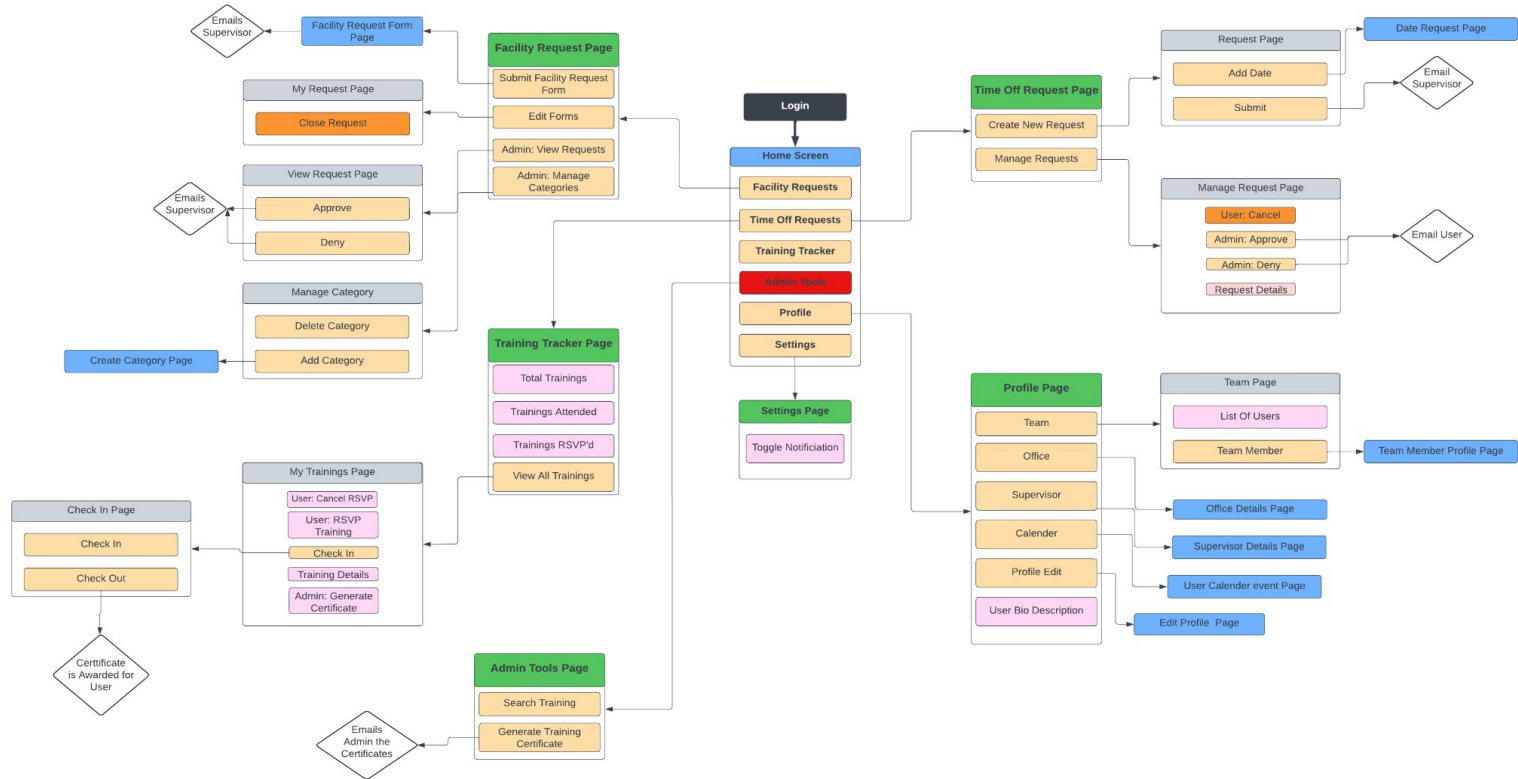


4 - Design

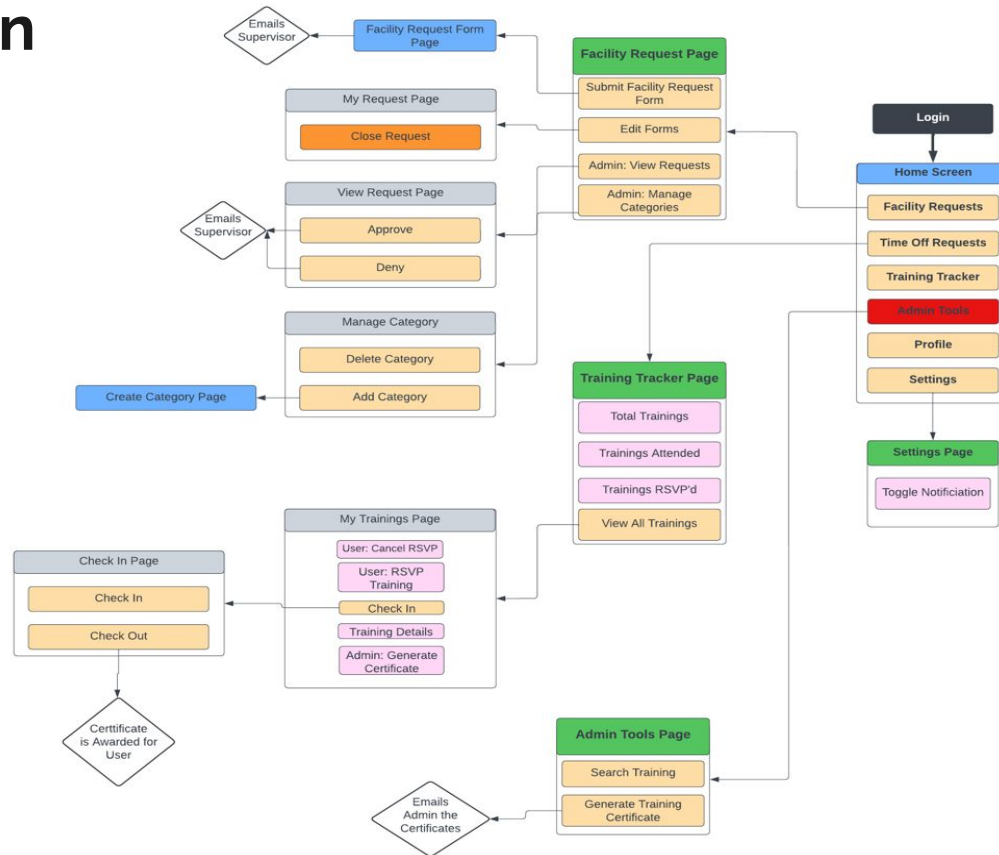
Presented by
Alberto Barboza & Elizabeth Silvestre



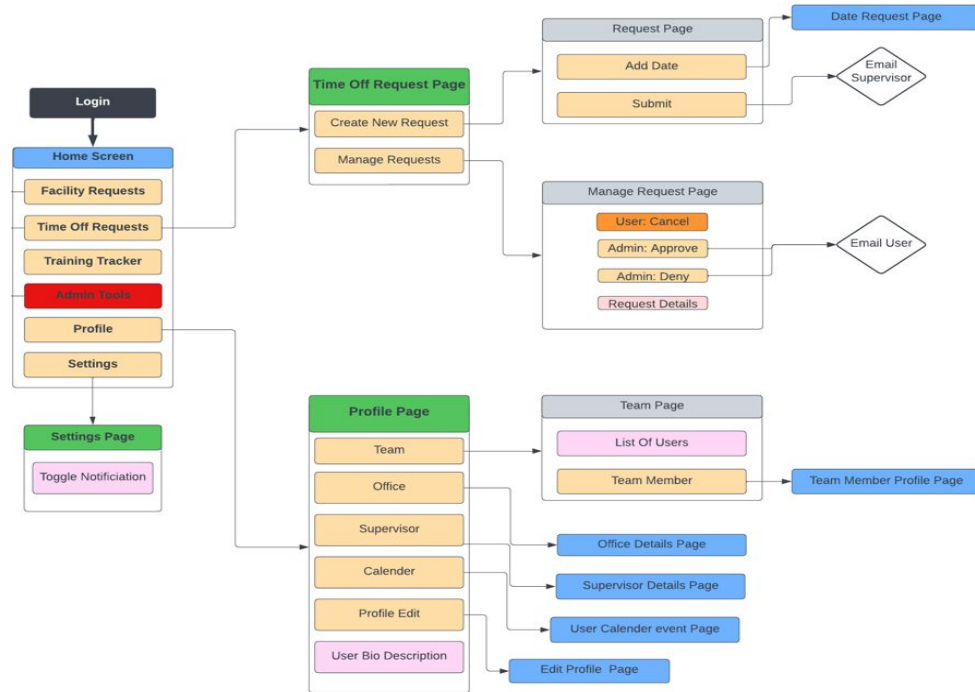
Navigation



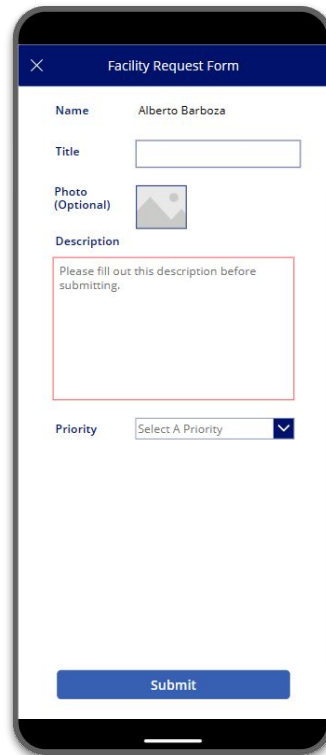
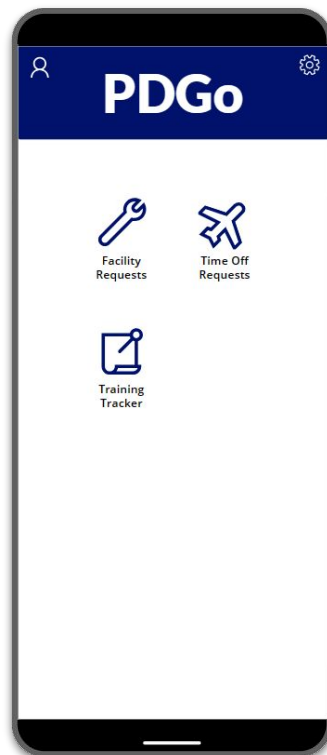
Navigation



Navigation



Accessibility



The image shows the "Facility Request Form" screen within the PDGo mobile application. The screen has a dark blue header bar with a white "X" icon on the left and the title "Facility Request Form" in white. The form fields are as follows: "Name" with the value "Alberto Barboza"; "Title" with an empty text input field; "Photo (Optional)" with a square image placeholder icon; "Description" with a large text area containing the placeholder text "Please fill out this description before submitting."; and "Priority" with a dropdown menu showing "Select A Priority" and a blue downward arrow. At the bottom of the screen is a blue button with the white text "Submit".

User Experience

← Requests

Start Date 5/7/2024

End Date 5/7/2024

Entire Day ☒

I need access to SBPD IT equipment while abroad ☐ No

Reason Code Find items

Additional Comments

← Requests

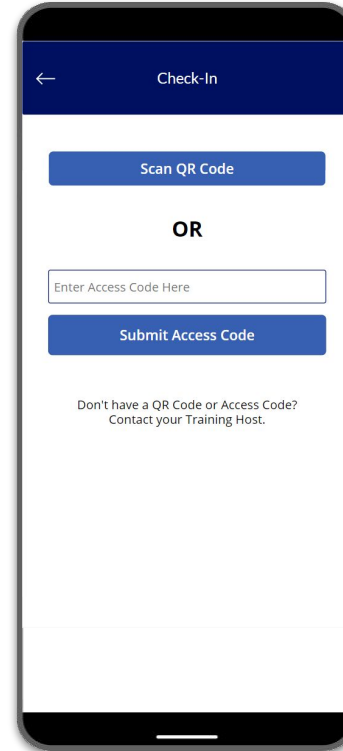
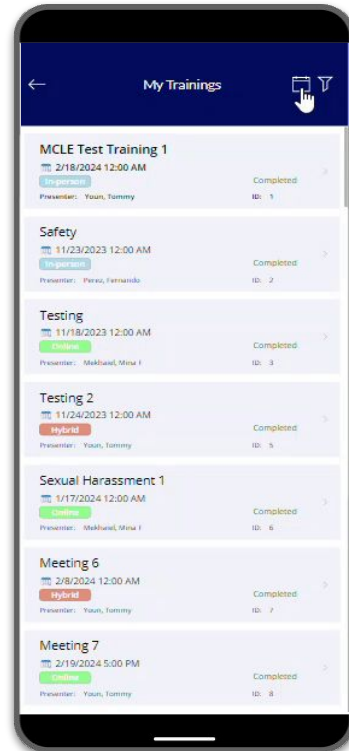
5/15/2024 5/15/2024	Entire Day	VAC	Edit	Delete
------------------------	------------	-----	------	--------

Additional Comments (Optional)

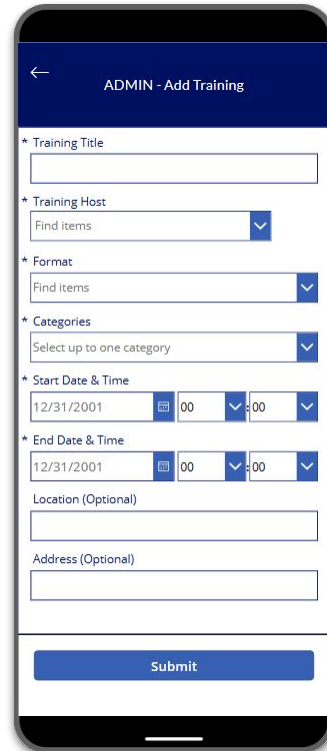
Enter comments here

Add Date Range Submit Request

User Experience (cont.)



User Experience (cont.)



ADMIN - Add Training

* Training Title

* Training Host
 Find Items

* Format
 Find Items

* Categories
 Select up to one category

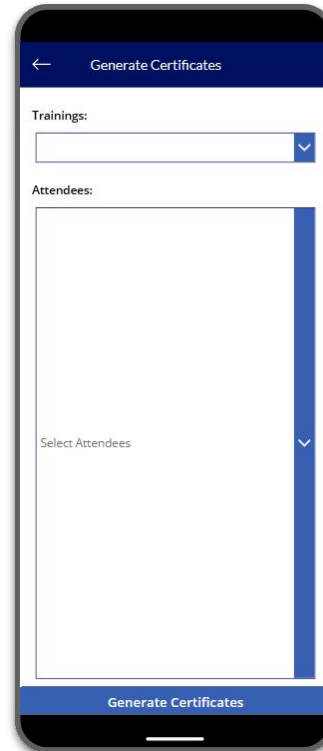
* Start Date & Time
 12/31/2001 00 00

* End Date & Time
 12/31/2001 00 00

Location (Optional)

Address (Optional)

Submit



Generate Certificates

Trainings:

Attendees:
 Select Attendees

Generate Certificates

5 - Implementation

Presented by
Yin Win, Fernando Perez,
Elias Schablowski, & Kevin Ornelas



Overview



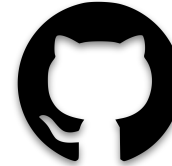
MS SharePoint



MS Forms



MS Power
Automate



Github



MS Power
Apps



ClickUp



MS SharePoint (Database)

SP

2023-2024 SB PDGo Development

Private group ★ Following 11 members

Home

Conversations

Documents

Shared with us

Notebook

Pages

Users

Teams

Users-Teams

TimeOffRequests

TimeOffRequestDays

TeamAttributes

MCLETrainings

Add real-time chat

Add Microsoft Teams to collaborate in real-time and share resources across Microsoft 365 with your team.

Add Microsoft Teams

Return to classic SharePoint

+ New

Edit in grid view

Share

Export





Automate

Integrate

...

All Items

Users

ID	Full Name	Profile Picture	Phone Number	Email Address	About Me	Team ID	Supervisor	UserType	Capabilities
1	Tommy Youn		(323) 848-0418	tyoun@calstatela.edu	I am a video game developer and have previously worked in web development. I love playing and making video games and wish to make that my full time career in the near future!	1	Chengyu Sun	Admin	<div>Time Off Requests</div> <div>Training Certificates</div> <div>Training Administrator</div> <div>Facility Liaison</div> <div>Facility HR</div> <div>Facility TSR</div>
2	Fernando Perez		(555) 505-0124	fperez82@calstatela.edu	Hello! I have worked a little before with web development, more specifically, more on the front end type work. I	1		User	
3	Mina Mekhaiel		(626) 626-0602	mmekhai@calstatela.edu	Hello Everybody, I have a temporary job as a Tier II tech support at the City of Downey. My goal is to start my career in developing as a Full Stack.	1	Chengyu Sun	User	
4	Cassidy Barron		(222) 222-2235	cbarro15@calstatela.edu	Hello Everyone! My name is Cassidy Barron, I'm a computer science major. I have professional experience	2		Admin	
7	Chengyu Sun		(323) 343-6697	csun@exchange.calstatela.edu	I am a professor at the Computer Science Department, California			User	<div>Time Off Requests</div> <div>Training Certificates</div>

MS Power Automate (Cloud Compute)

New MCLE Training Submission

Create item

Parameters Settings Code View Testing About

Site Address *

2023-2024 SB PDGo Development - https://csula.sharepoint.com/sites/2023-20...

List Name *

MCLETrainings

Advanced parameters

Showing 11 of 18 Show all Clear all

Training

body/rd... x

Training Host

body/r41... x

TrainingStartDate

Body x

TrainingEndDate

Body x

Location

body/r39... x

Address

body/rdf... x

MCLE_Category

Value - 1 x

When a new response is submitted

Get response details

Convert time zone

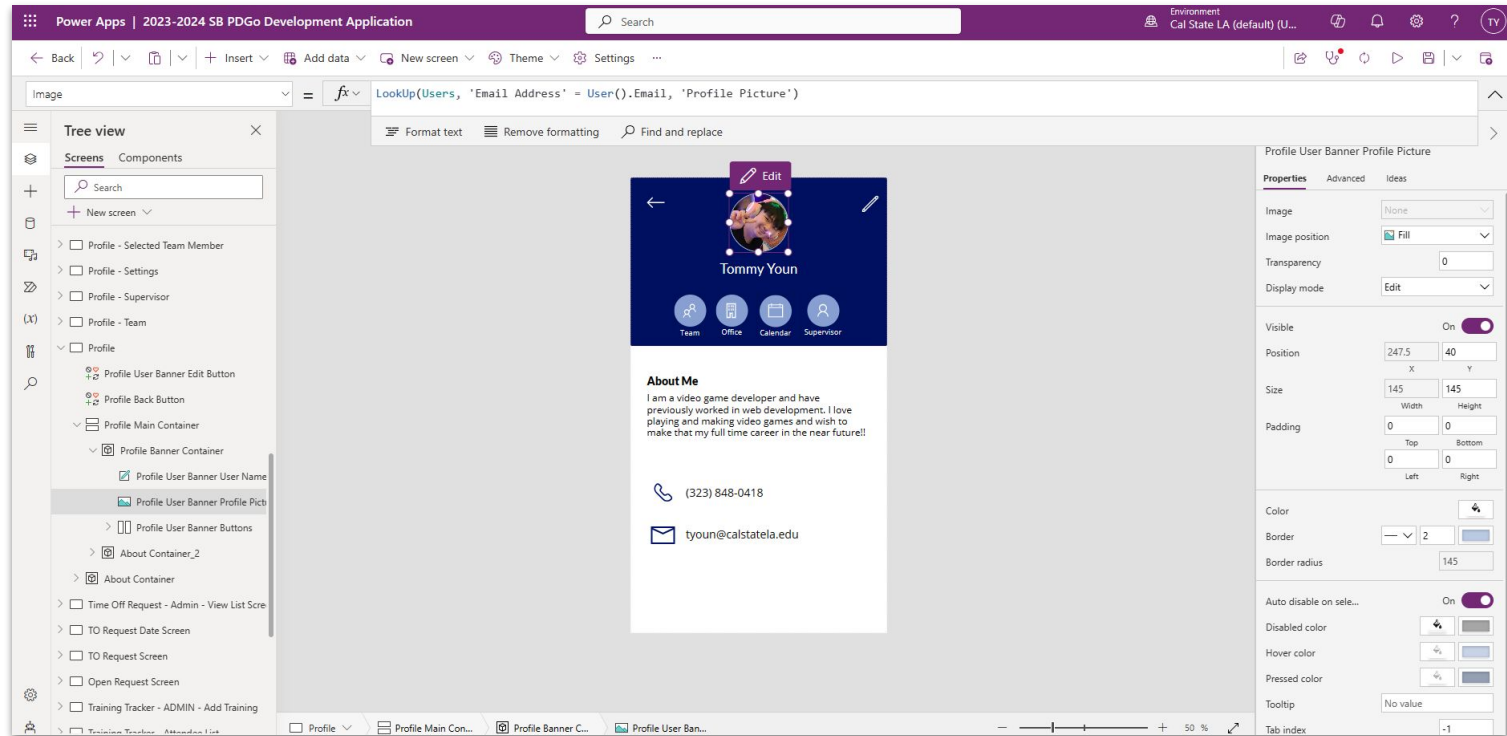
Convert time zone 2

Create item

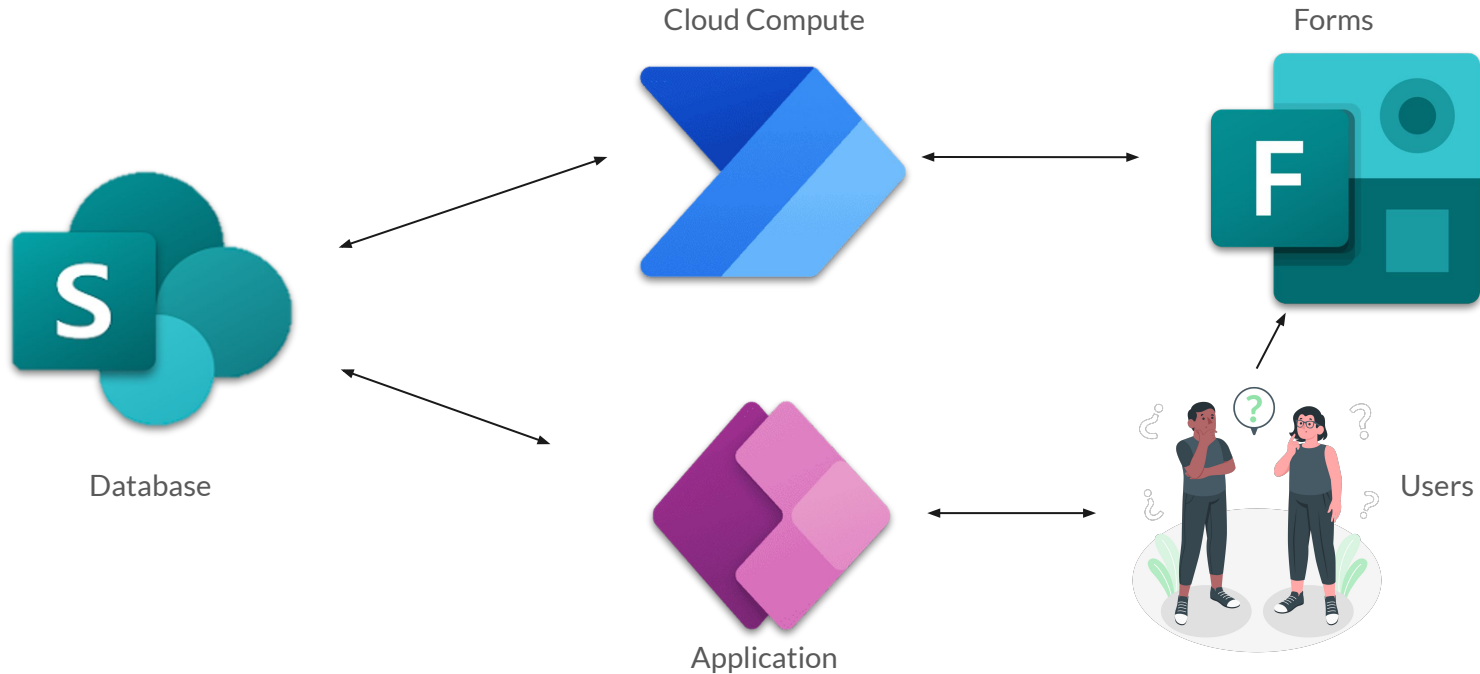
Update item

Send an email (V2)

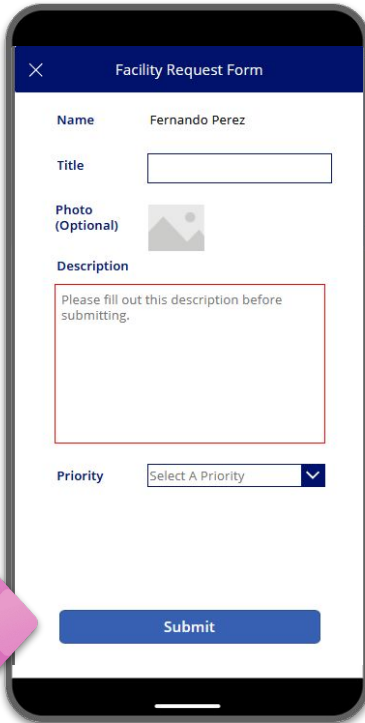
MS Power Apps (Application)



Connections between Platforms in PDGo



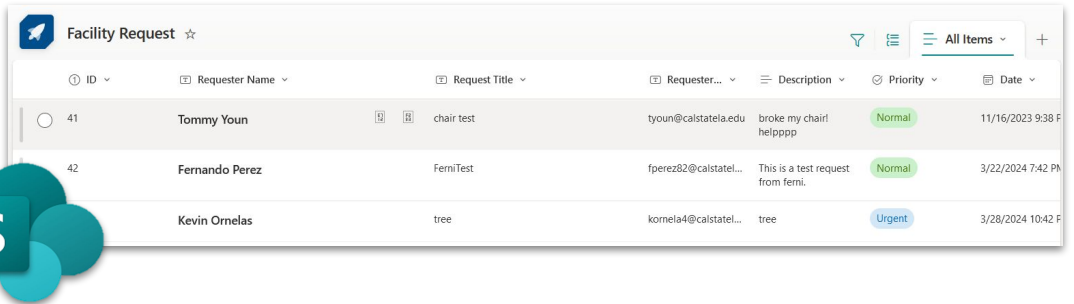
Facility Requests (User)



A smartphone screen displaying a 'Facility Request Form'. The form has a dark blue header with a close button (X) and the title 'Facility Request Form'. Below the header, the form fields are as follows:

- Name:** Fernando Perez
- Title:** An empty text input field.
- Photo (Optional):** A placeholder image icon.
- Description:** A large text area with a red border. Inside, it says 'Please fill out this description before submitting.'
- Priority:** A dropdown menu with the text 'Select A Priority' and a downward arrow.
- Submit:** A blue button at the bottom.

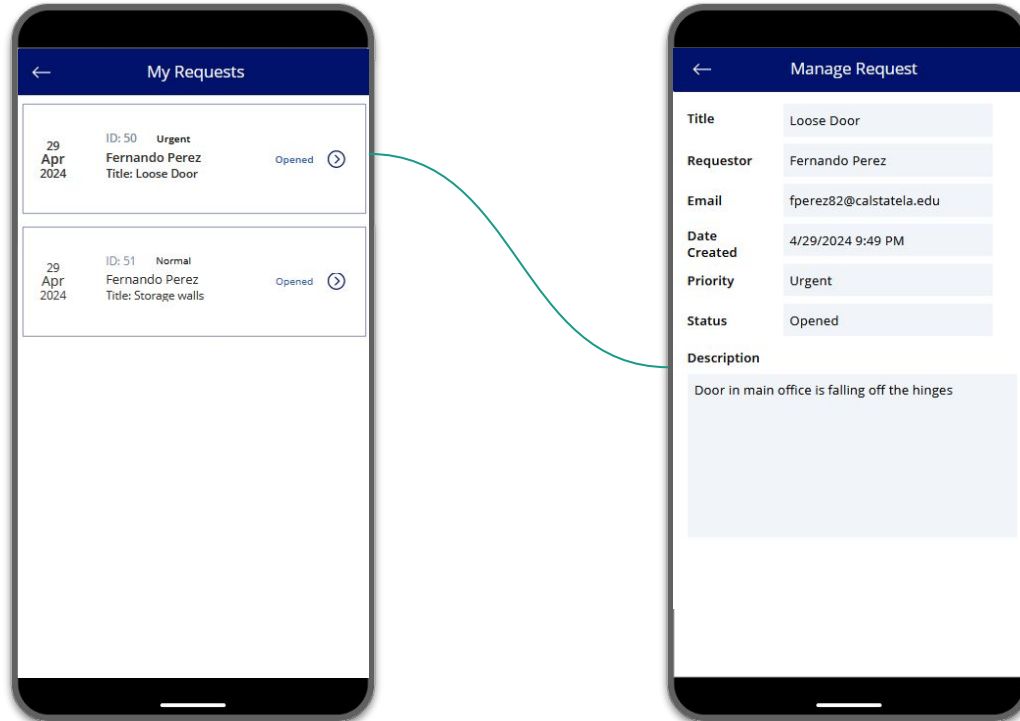
Decorative elements include a teal and orange horizontal bar above the phone and a purple/pink geometric shape to the left of the phone.



A desktop screen displaying a 'Facility Request' list. The title bar shows 'Facility Request' with a star icon. The table has columns for ID, Requester Name, Request Title, Requester, Description, Priority, and Date. There are three rows of data. A Microsoft Teams icon is overlaid on the left side of the table.

ID	Requester Name	Request Title	Requester...	Description	Priority	Date
41	Tommy Youn	chair test	tyoun@calstatela.edu	broke my chair! helpppp	Normal	11/16/2023 9:38 F
42	Fernando Perez	FernTest	fperez82@calstatel...	This is a test request from ferni.	Normal	3/22/2024 7:42 PM
	Kevin Ornelas	tree	kornela4@calstatel...	tree	Urgent	3/28/2024 10:42 F

Facility Requests Management (User)



Facility Requests (Admin)



Facility Requests

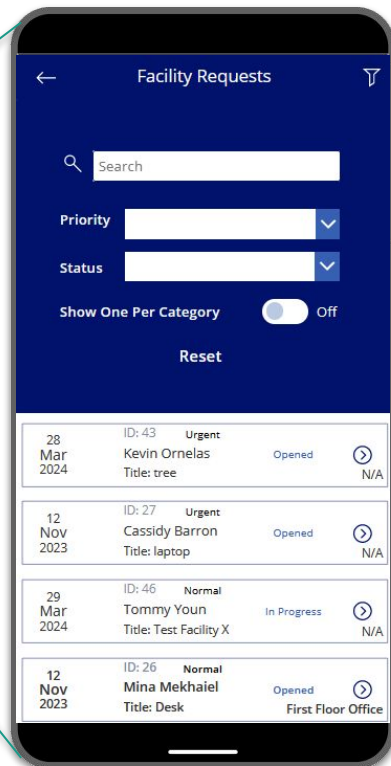
28 Mar 2024	ID: 43 Kevin Ornelas Title: tree	Urgent Opened	⌵	N/A
12 Nov 2023	ID: 27 Cassidy Barron Title: laptop	Urgent Opened	⌵	N/A
29 Mar 2024	ID: 46 Tommy Youn Title: Test Facility X	Normal In Progress	⌵	N/A
12 Nov 2023	ID: 26 Mina Mekhaie Title: Desk	Normal Opened	⌵	First Floor Office

Manage Request

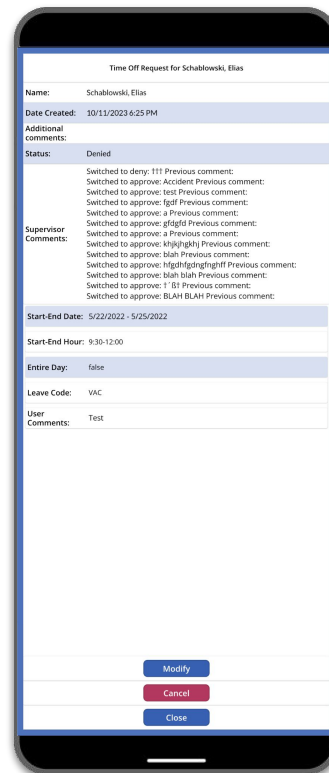
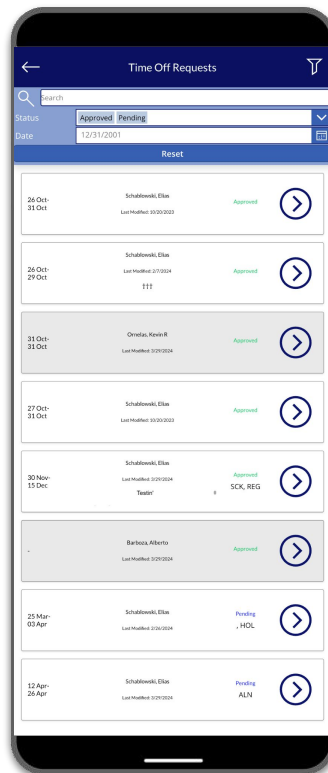
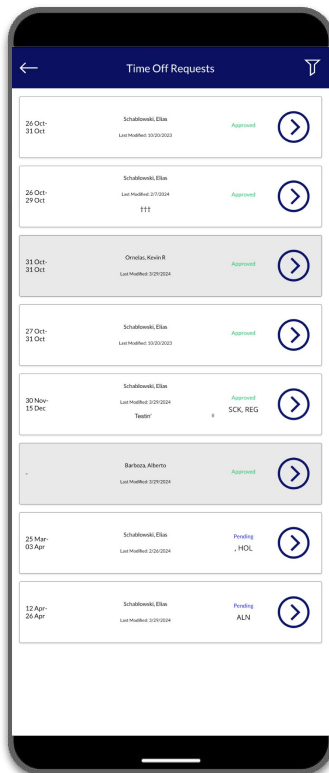
Title	Desk
Requestor	Mina Mekhaie
Email	mmekhai@calstatela.edu
Date Created	11/12/2023 12:08 AM
Priority	Normal
Status	Opened
Description	I need help please fixing my desk.

Approve Close Request

Facility Requests (Admin)



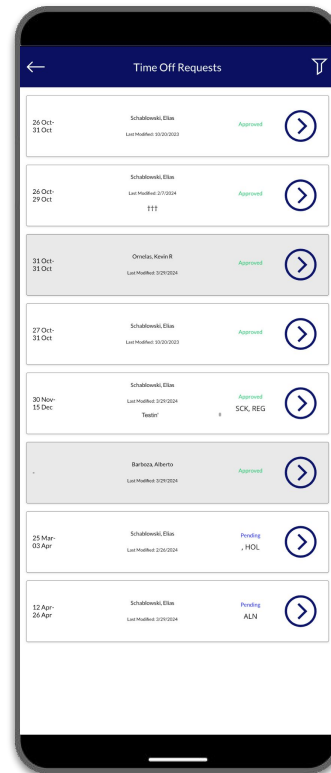
Time Off Requests List View



Finding Subordinates

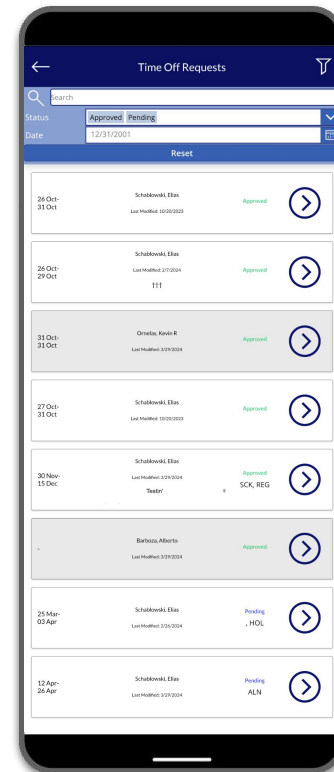
```
Clear(Subordinates);

ForAll(Filter('Users-Teams', 'User ID' = UserRecord.ID),
    With({
        Team: Lookup(Teams, ID = 'Team ID')
    },
    With({
        Supervisor: Lookup(Users, Office365 = Office365Users.UserProfile(
            Last(Split(Last(Team.Supervisor.Claims).Claims, "|")).Value
            ).ID)
    }, If(Supervisor.ID = UserRecord.ID,
        ForAll(Filter('Users-Teams', 'Team ID' = Team.ID),
            Collect(Subordinates, Lookup(Users, ID = 'User ID')));
    ))
);
Collect(Subordinates, UserRecord); // Add self as subordinate
UpdateContext({SubIDs: With({
    SubordinateIDs: ForAll(Subordinates, ThisRecord.ID)
},
    Filter(TimeOffRequests, Status.Value = "Pending", Requester in SubordinateIDs)
)});
```



Finding Time Off Requests

```
Search(With({
  SubordinateIDs: ForAll(Subordinates, ThisRecord.ID),
  Statuses: Status_ComboBox.SelectedItems
}),
  Filter(TimeOffRequests,
    StatusCode in Statuses,
    Or(
      "Time Off Requests" in ForAll(UserRecord.Capabilities, Value),
      Requester in SubordinateIDs
    )
  ), search_input.Text, Comments)
```



Time Off Requests

← Requests

5/15/2024 5/15/2024 10:00 AM - 10:00 AM 10:00 AM - 10:00 AM

Edit Delete

Add Request

Additional Comments

Submit Request

← Requests

Start Date 5/14/2024

End Date 5/14/2024

Entire Day ☒

Reason Code ⓘ

I need access to SBPD IT equipment while abroad ☒ No

Additional Comments

Add to Request

Leave Codes

VAC:	Vacation
REG:	Regular Earn
SCK:	Sick leave
ALN:	Authorized leave: No pay
EXH:	Extra help
HOL:	Holiday
OTA:	Overtime accrued
VAC:	Vacation
PSL:	Personal Sick leave
ESK:	Extra help sick leave
HLB:	Accrued holiday leave
JUR:	Jury duty
OTR:	Overtime paid out

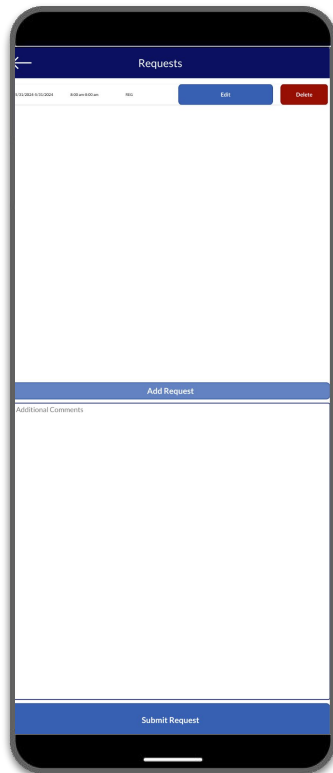
Cancel

Submitting a Time Off Request

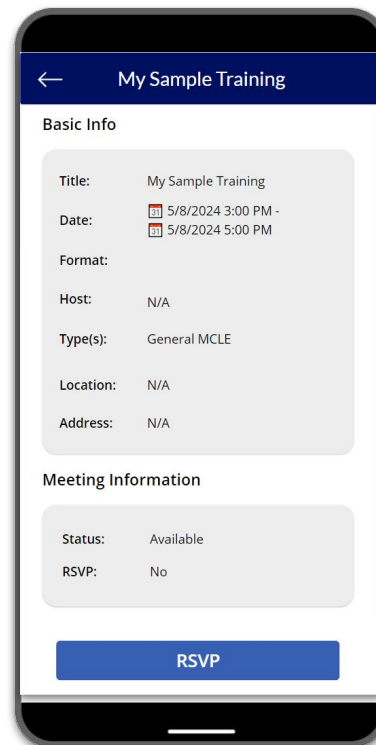
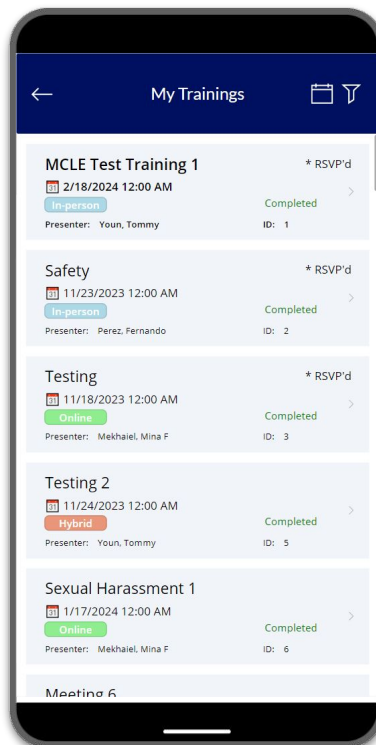
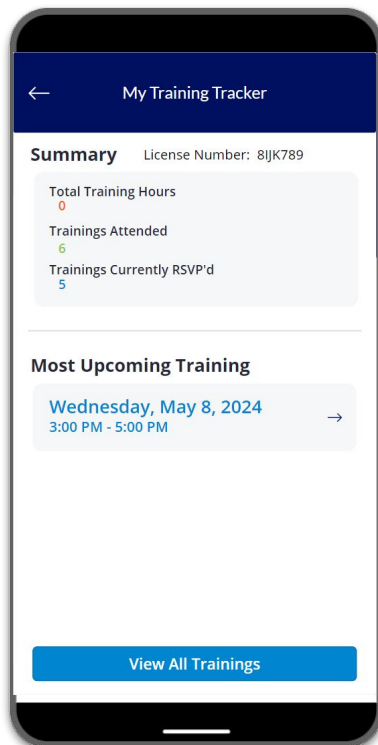
```

If(!IsBlankOrError(Edit), Patch(TimeOffRequests, Edit, {
    Status: {Value: "Cancelled"}
}));
With({
    Request: Patch(TimeOffRequests, Defaults(TimeOffRequests), {
        Reason: 'TO Request Screen Comments Input'.Text,
        Requester: UserRecord.ID,
        Status: {Value: "Pending"},
        Comments: ""
    })
},
    ForAll(RequestDates, With({Date: ThisRecord},
        Patch(TimeOffRequestDays,
            If(IsBlankOrError(ID),
                Defaults(TimeOffRequestDays),
                Lookup(TimeOffRequestDays, ID = Date.ID)
            ),
            {
                Request: {Id: Request.ID, Value: Request.ID},
                StartDate: Date.StartDate,
                EndDate: Date.EndDate,
                EntireDay: Date.EntireDay,
                StartTime: Date.StartTime,
                EndTime: Date.EndTime,
                Reason: { Id: Lookup(RequestCodes, Title = Date.Reason).ID, Value:
Date.Reason },
                AdditionalComments: Date.Comments,
                ITEquipment: Date.ITEquipment
            }
        )
    )
);
Clear(RequestDates);
UpdateContext({ Edit: Blank() });
Reset('TO Request Screen Comments Input');
Navigate('General Success Screen', ScreenTransition.CoverRight);

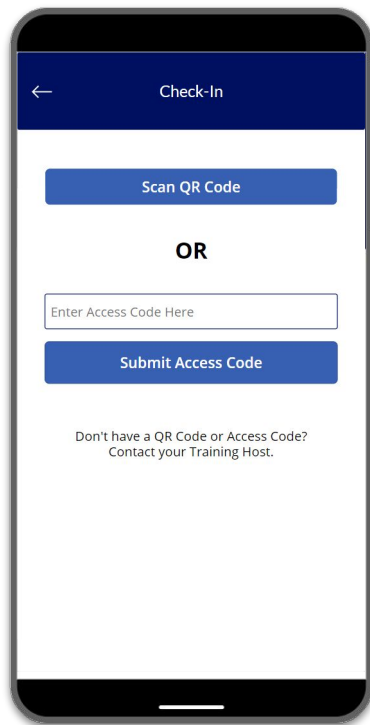
```



Training Tracker

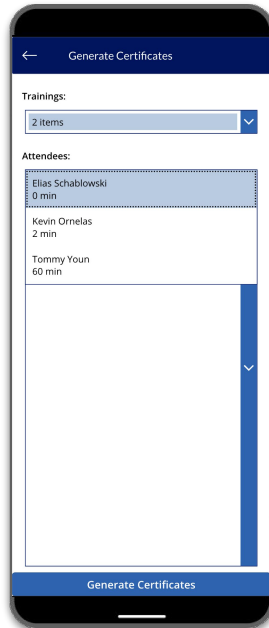


Training Tracker Check-In & Check-Out



```
UpdateContext(
{
    MeetingRecord: LookUp(
        MCLETrainings_1,
        'Access Code' = TextInput2.Text && ID = _currentSelectedTraining.ID
    )
});
If(!IsBlank(LookUp(MCLETrainingAttendance, TrainingID = MeetingRecord.ID && Attendee = User().FullName)),
    Patch(
        MCLETrainingAttendance,
        LookUp(
            MCLETrainingAttendance,
            TrainingID = MeetingRecord.ID && Attendee = User().FullName
        ),
        {
            'Check-InTime': Now(),
            Attended: true
        }
    ),
    Patch(
        MCLETrainingAttendance,
        Defaults(MCLETrainingAttendance),
        {
            Attendee: User().FullName,
            TrainingID: _currentSelectedTraining.ID,
            'Check-InTime': Now(),
            Attended: true
        }
    )
);
Navigate('Training Tracker - View Training Details', ScreenTransition.Cover);
```

Certificate Process



Generate Certificates

Trainings:

2 items

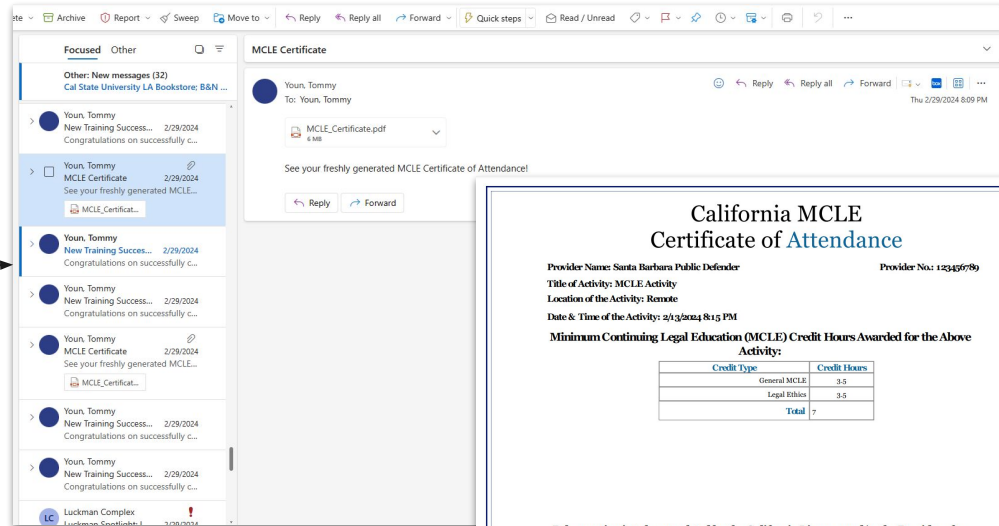
Attendees:

Elias Schablowski
0 min

Kevin Ornelas
2 min

Tommy Youn
60 min

Generate Certificates



Focused Other

Other: New messages (32)
Cal State University LA Bookstore: B&N ...

Youn, Tommy
New Training Success... 2/29/2024
Congratulations on successfully c...

Youn, Tommy
MCLE Certificate 2/29/2024
See your freshly generated MCLE...
MCLE_Certificat...

Youn, Tommy
New Training Success... 2/29/2024
Congratulations on successfully c...

Youn, Tommy
New Training Success... 2/29/2024
Congratulations on successfully c...

Youn, Tommy
MCLE Certificate 2/29/2024
See your freshly generated MCLE...
MCLE_Certificat...

Youn, Tommy
New Training Success... 2/29/2024
Congratulations on successfully c...

Youn, Tommy
New Training Success... 2/29/2024
Congratulations on successfully c...

LC Luckman Complex 2/29/2024

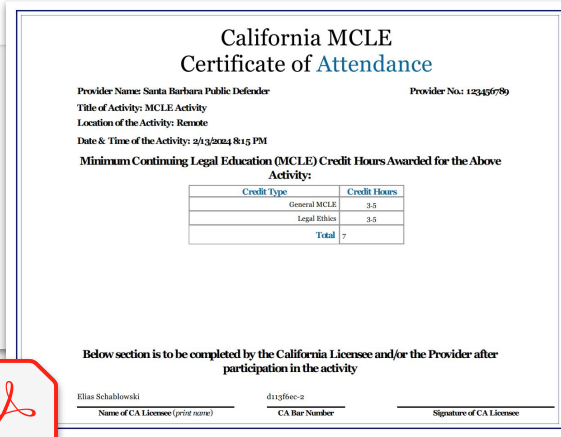
MCLE Certificate

Youn, Tommy
To: Youn, Tommy

MCLE_Certificate.pdf
6 MB

See your freshly generated MCLE Certificate of Attendance!

Reply Forward



California MCLE
Certificate of Attendance

Provider Name: Santa Barbara Public Defender Provider No: 123456789

Title of Activity: MCLE Activity

Location of the Activity: Remote

Date & Time of the Activity: 2/13/2024 8:15 PM

Minimum Continuing Legal Education (MCLE) Credit Hours Awarded for the Above Activity:

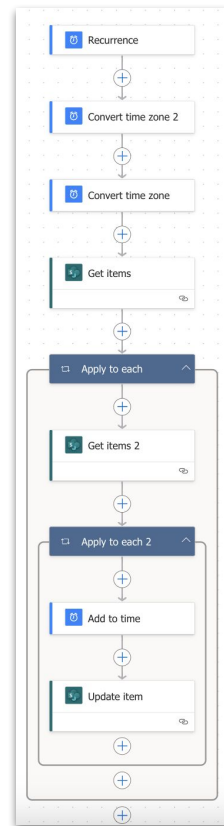
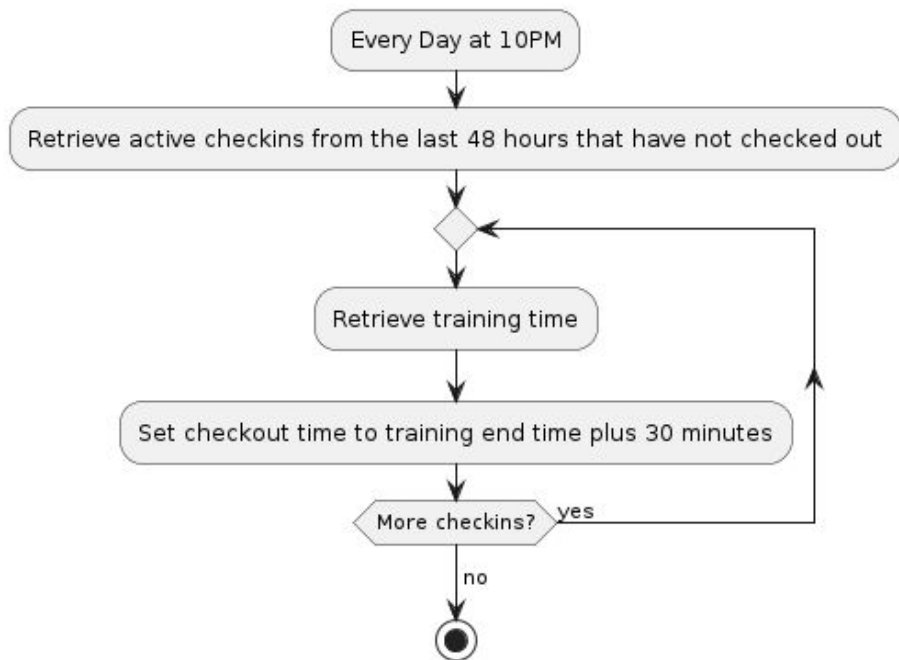
Credit Type	Credit Hours
General MCLE	3.5
Legal Ethics	3.5
Total	7

Below section is to be completed by the California Licensee and/or the Provider after participation in the activity

Elias Schablowski 41235678-2

Name of CA Licensee (print name) CA Bar Number Signature of CA Licensee

Training Tracker Auto Checkout



Training Tracker Email Description

The screenshot displays an Outlook web interface. On the left, the 'Folders' pane shows 'Inbox' with 3118 items. The main pane shows a list of emails, with the selected one from 'Ornelas, Kevin R.' dated 3/28/2024. The email content is titled 'New Training Successfully Created - Details' and congratulates the recipient on creating a training event. It includes details such as the training title, host, date, location, and an access code. A QR code link is also provided for check-in and check-out using PDGo!

Other: New messages (43)
Cal State University LA Bookstore; Luck...

Task Overdue DUE DATE 3/28/24 ...

OR Ornelas, Kevin R.
New Training Success... 3/28/2024
Congratulations on successfully c...

OR Ornelas, Kevin R.
New Training Success... 3/28/2024
Congratulations on successfully c...

OR Ornelas, Kevin R.
New Training Success... 3/28/2024
Congratulations on successfully c...

MP Mekhael, Mina F
[TICK: 43] New Facilit... 3/28/2024
A new facility request has been s...

MA Microsoft Power Automate
Schabowski, Elias h... 3/28/2024
View the changed flow, Automati...

Joshua Adachi
Joshua Adachi (CS 4... 3/28/2024
The Writing Test is Coming! Dear...

H Handshake
Your weekly jobs rou... 3/28/2024
Your weekly jobs round-up New j...

IE Institutional Effectiveness
Cal State Los Angele... 3/28/2024
Dear Kevin, This is just a reminde...

Y Youn, Tommy via Microsoft Pow...
Youn, Tommy has sh... 3/27/2024
Start using your Test-App - Femi ...

C Cal State LA Alumni Association
Free LA Kings tickets... 3/27/2024
Hey Golden Eagles, these two are...

New Training Successfully Created - Details

OR Ornelas, Kevin R.
To: Ornelas, Kevin R.
Thu 3/28/2024 11:39 PM

Congratulations on successfully creating your "Training something" Training Event through the New MCLE Training Microsoft Form!

Below you can find all the details related to the event. You can also view it on your Outlook Calendar.

Training Title: Training something
Training Host/Email: super something/

Training Date: 2024-03-29T12:00:00Z to 2024-03-29T13:00:00Z
Format: In-Person
Location (Optional): fdfsdf 123 main St
ACCESS CODE:

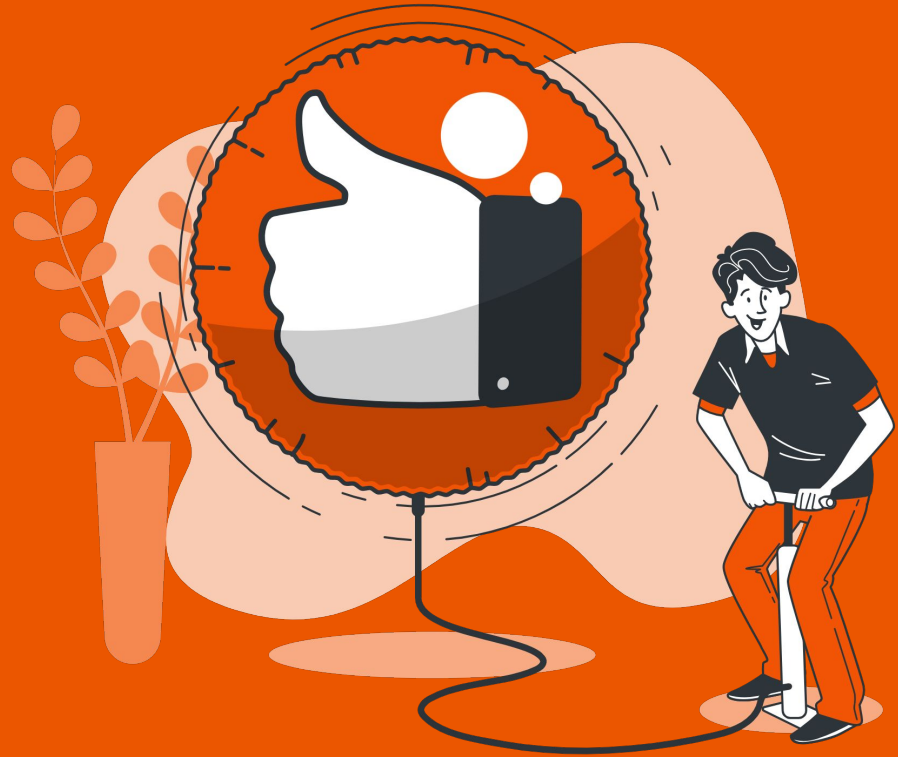
QR Code:
<https://chart.googleapis.com/chart?cht=qr&chs=300x300&chl=52&choe=UTF-8>

Share the Access Code at the event for users to Check-In and Check-Out using PDGo!

Reply Forward

Thank you!

Questions?



**Icons by [Flaticon](#) & [Slidesgo](#). Graphics by [Storyset](#).*