| Attendee | |
|---|---|
| - Attend event<br>- Scan QR code<br>- Edit profile<br>- Get notifications<br>- View event information | - ProfilePage<br>- ProfilePhotoGenerator<br>- QRCode<br>- Event<br>- EventPage<br>- Homepage<br>- PushNotifications<br>- Announcements |

| ProfilePage | |
|---|---|
| - Hold attendee information<br>- Browse and edit<br>- Update and generate photos | - Attendee<br>- Admin<br>- ProfilePhotoGenerator<br>- Photo<br>- ProfileMasterList |

| PhotoGenerator | |
|---|---|
| - Generate profile image | - Attendee<br>- ProfilePage<br>- Photo |

| HomePage | |
|---|---|
| -show attendee login option<br>-show organizer login option<br>-show administrator login option | -Attendee<br>-Organizer<br>-Administrator<br>-Phone |

| Alerts | |
|---|---|
| -show important milestones to Organizer | -Milestones<br>-Organizer |

| Milestones | |
|---|---|
| -represent Milestones | -Alerts<br>-Event<br>-Event management |

| Notification organizer | |
|---|---|
| -creates notifications<br>-lets organizer send notifications<br>-attendees receive notifications | -Organizer<br>-Attendees |

| Notification | |
|---|---|
| -represents Notification<br>-organizer sends it<br>-attendees receive it (even outside of the app) | -Event<br>-Organizer<br>-Attendees |

| Announcement | |
|---|---|
| -represents Annoucement | -Announcement Page |

| Announcement Page | |
|---|---|
| -shows the layout page of Announcement to Attendees | -Event<br>-Attendee<br>-Announcement |

| Permissions | |
|---|---|
| -represents Permissions | |

| Attendance | |
|---|---|
| -has a check-in counter<br>-tracks number of Attendees for an Event | -Event<br>-Attendees |

| Phone | |
|---|---|
| -represent Phone that users access app on | -App<br>-Attendee<br>-Organizer<br>-Administrator<br>-User |

| App | |
|---|---|
| -Platform for Attendees to check in<br>-track attendance<br>-manage Event details<br>-send notifications | -Attendee<br>-Organizer<br>-Administrator<br>-Phone<br>-Attendance<br>-Event Management<br>-Notification |

| User | |
|---|---|
| -represents User | -Attendee<br>-Organizer<br>-Administrator |

| AttendancePage | |
|---|---|
| - Displays profiles of attendees of event as scollable list | - Event<br>- EventPage<br>- Profile<br>- Organizer |

| Geolocation | |
|---|---|
| - Integrates geolocation hardware from phone into app | - Map<br>- Tracking<br>- Attendee |

| Tracking | |
|---|---|
| - live location tracking of attendees through app<br>- can be enabled/ disabled | - Geolocation<br>- Map<br>- Attendee |

## Map

- map item stores live locations of attendees fround through live tracking

- Geolocation
- Attendee
- EventPage

## ProfileMasterList

- ListView of all Profile items
- viewable and editable as admin

- Admin
- Profile

## Photo

- gets photo
- sets photo
- stores info about an image uploaded to app

- ProfilePage
- EventPoster
- EventPage

## Camera

- handles I/O operations from phone camera
- take photos
- scan QR codes

- QRCode
- CheckIn

<<interface>>

- Photo

## Album

- stores Photo objects
- retrieves photos from existing album on phone
- add/delete photos

- Photo
- EventPoster
- Attendee
- Organizer
- Administrator

## EventMasterList

- ListView of all event items
- viewable and editable as admin

- Admin
- Event

## SearchList

- enables key search function on MasterLists for specified item

- Event
- Profile
- EventMasterList
- ProfileMasterList

## Event Manager

-get/view event details
-delete event

-Events

## GenerateQR

- Generates new and unique QR code

-QRCode

## EventPageOrg

| | |
|---|---|
| - Displays event details for the events of a specific organizer | -Extents EventPage<br>- Event<br>-Organizer |

## Organizer

| | |
|---|---|
| -create new event<br>-view event stats<br>- send notifications<br>-upload event posters/details<br>-view map<br>- view attendee stats | -EventManager<br>-Event<br>-Attendee<br>- |

## ShareQR

| | |
|---|---|
| - Turns QR into sharable format | -QR<br>-Notifications/ announcemnts |

## Administrator

| | |
|---|---|
| -Remove events , profiles images<br>- Browse events, profiles, images (Browse and remove are linked, 3 view inflators maybe) | - EventManager<br>- Event<br>-Profiles<br>-Images |

## QRCode

| | |
|---|---|
| -Get id (linking it to a specific event)<br>-get QRCode image | - QRCodes/Vaults<br>- Event |

## Event

| | |
|---|---|
| -Has start/end date<br>-Has QRCode<br>-Has attendence<br>-Linked to an organizer | -Attendence<br>-QRCode<br>-Organizer |

## EventPage

| | |
|---|---|
| - Displays event details | -Event |

## Poster

| | |
|---|---|
| -Has poster size<br>-poster description | -Event |

## QRCodes/Vault

| | |
|---|---|
| - stores QRCodes<br>-isActive | -QRCode<br>-GenerateQR |