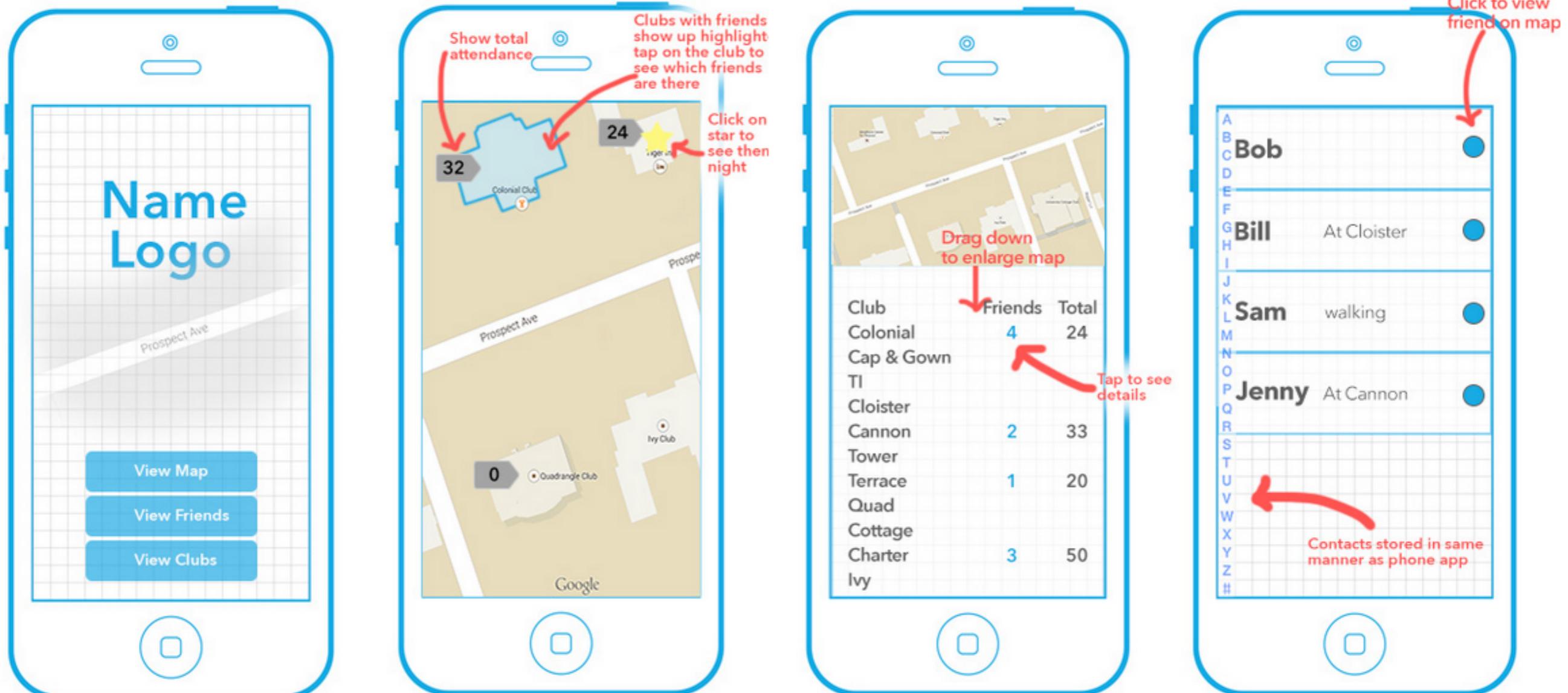


F L O O C K

# Flock's Initial Goals:

- Allow users to easily see their friends' locations on "The Street"
- See which Clubs are popular and open/closed
- Contact their friends so they can know a user is looking for them
- Do this quickly and easily

# Original Design



Shortcomings  
Improvements

# The Back-End



Parse + **facebook**  
Parse + **facebook**

# User class

	objectId String	facebook_ID String	username String	email String	LocationName String	authData authData	password String
	LJlot8hSIR	10206528678398447	william.bertran...	william.bertra...	No location descr...	(undefined)	(hidden)
	HTw1nSB0R1	10153220712553658	npai.nyc@gmail....	npai.nyc@gmail...	No location descr...	(undefined)	(hidden)

# Club class

objectId String	Club_Name String	createdAt Date	updatedAt Date	ACL ACL	Open Boolean
uXNRISLbJl	Tower	Apr 07, 2015, 23:59	Apr 19, 2015, 17:34	Public Read and Write	(undefined)
YU7gQ1nkeb	Terrace	Apr 07, 2015, 23:59	Apr 19, 2015, 17:34	Public Read and Write	(undefined)
VmQbtwBeh7	Cottage	Apr 07, 2015, 15:18	Apr 19, 2015, 17:34	Public Read and Write	(undefined)
eT63epHECM	Tiger Inn	Apr 07, 2015, 15:18	Apr 19, 2015, 17:34	Public Read and Write	(undefined)
GLRLSkzZae	Ivy	Apr 07, 2015, 15:18	Apr 19, 2015, 17:34	Public Read and Write	(undefined)
WHnQu5T9eh	Quadrangle	Apr 07, 2015, 15:18	Apr 19, 2015, 17:35	Public Read and Write	(undefined)
rx0l1h91B9	Cap and Gown	Apr 07, 2015, 15:17	Apr 19, 2015, 17:35	Public Read and Write	(undefined)
DJkVtodXDe	Cloister	Apr 07, 2015, 15:17	Apr 19, 2015, 17:35	Public Read and Write	(undefined)
23uXts4TGa	Colonial	Apr 07, 2015, 15:17	Apr 19, 2015, 17:35	Public Read and Write	(undefined)
u37yAaFfat	Charter	Apr 07, 2015, 15:17	Apr 19, 2015, 17:35	Public Read and Write	(undefined)
Hgl6qMdX4a	Cannon	Apr 07, 2015, 15:14	Apr 19, 2015, 17:35	Public Read and Write	(undefined)

FLOCK



Parse

user : PFObject

facebook\_ID : String

facebook

graphpath: me

ID : String

---

graphpath: me/friends

data = ({

id = 10153220712553658;

name = "Nicholas Pai";

},{

id = 50383622742756673;

name = Will Bertrand");});

```
var request : FBSDKGraphRequest = FBSDKGraphRequest(graphPath: "me", parameters: nil)
```

Graph Request: me  
Results: Name, Email, Photo, Age, Gender...

```
request.startWithCompletionHandler { (connection: FBSDKGraphRequestConnection!, result: AnyObject!, error: NSError!) -> Void in
    if error == nil {
        let resultDict : NSDictionary = result as! NSDictionary
        let fullName : String = resultDict.objectForKey("name") as! String
        //email not always available
        let email : String! = resultDict.objectForKey("email") as! String
        //var gender : String! = resultDict.objectForKey("gender") as String
        let fbID : String = resultDict.objectForKey("id") as! String
```

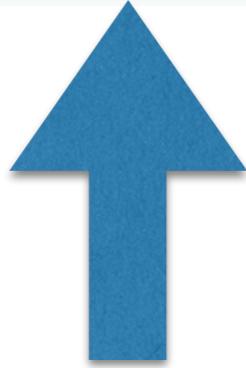
Graph Request: me/friends  
Results: Friend ID's, Name, Profile Picture (in JSON)

```
var resultDict : NSDictionary = result as! NSDictionary
var data : NSArray = resultDict.objectForKey("data") as! NSArray
for value in data {
    let valueDict : NSDictionary = value as! NSDictionary
    let id = valueDict.objectForKey("id") as! String
    let name = valueDict.objectForKey("name") as! String
}
```

# Parse Activity Class

Allows for a linear search to find all Friends of a specific user

objectId	String	From_User	Pointer<User>	To_User	Pointer<User>	Type	String	createdAt	Date	updatedAt	Date
lff2Ni5TjW		HTw1nSB0R1		4k2D1j1YVS		Friend		May 05, 2015, 00:59		May 05, 2015, 00:59	
eugC3D4MPU		4k2D1j1YVS		HTw1nSB0R1		Friend		May 05, 2015, 00:59		May 05, 2015, 00:59	
bEE6piAoNL		LJlot8hSIR		4k2D1j1YVS		Friend		May 05, 2015, 00:58		May 05, 2015, 00:59	



Reference to User object

Query: where From\_User is current user and type is friend

# The Front-End

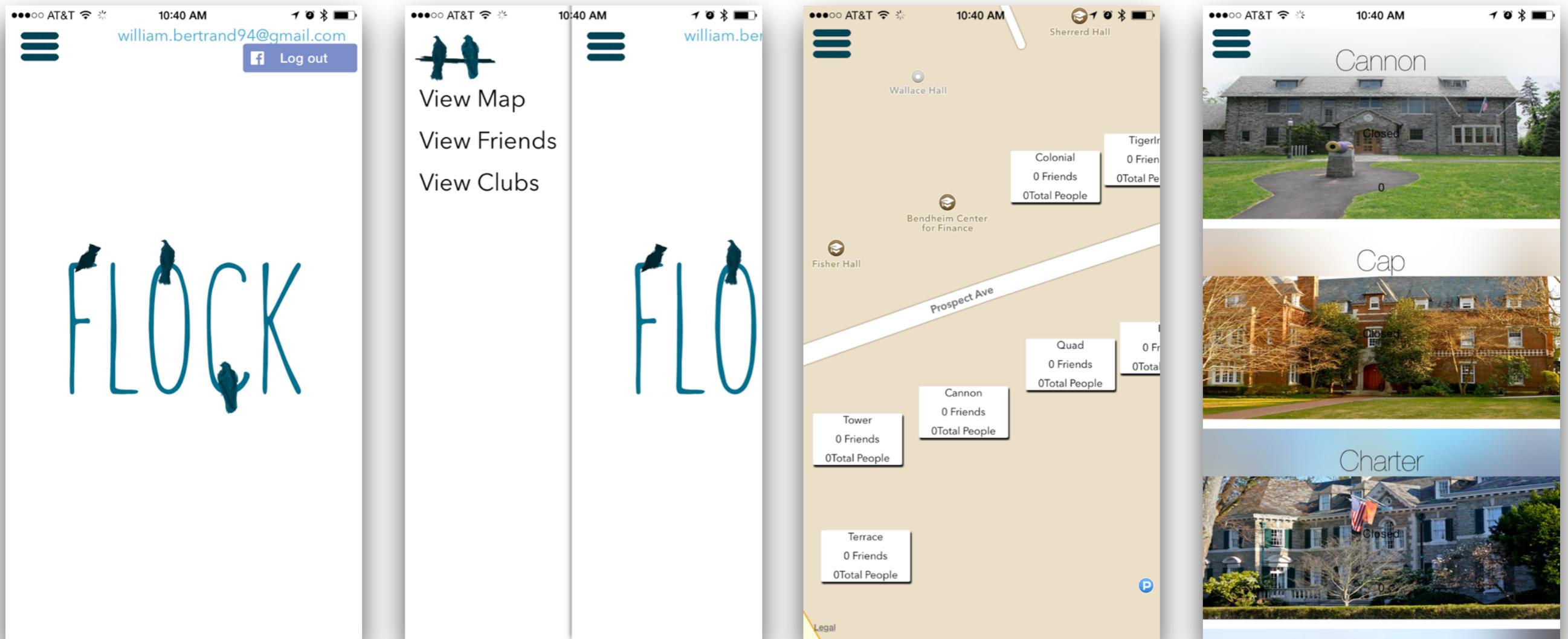
Flock is organized around three different views:

- View Map Page
- Friends List Page
- Clubs List Page

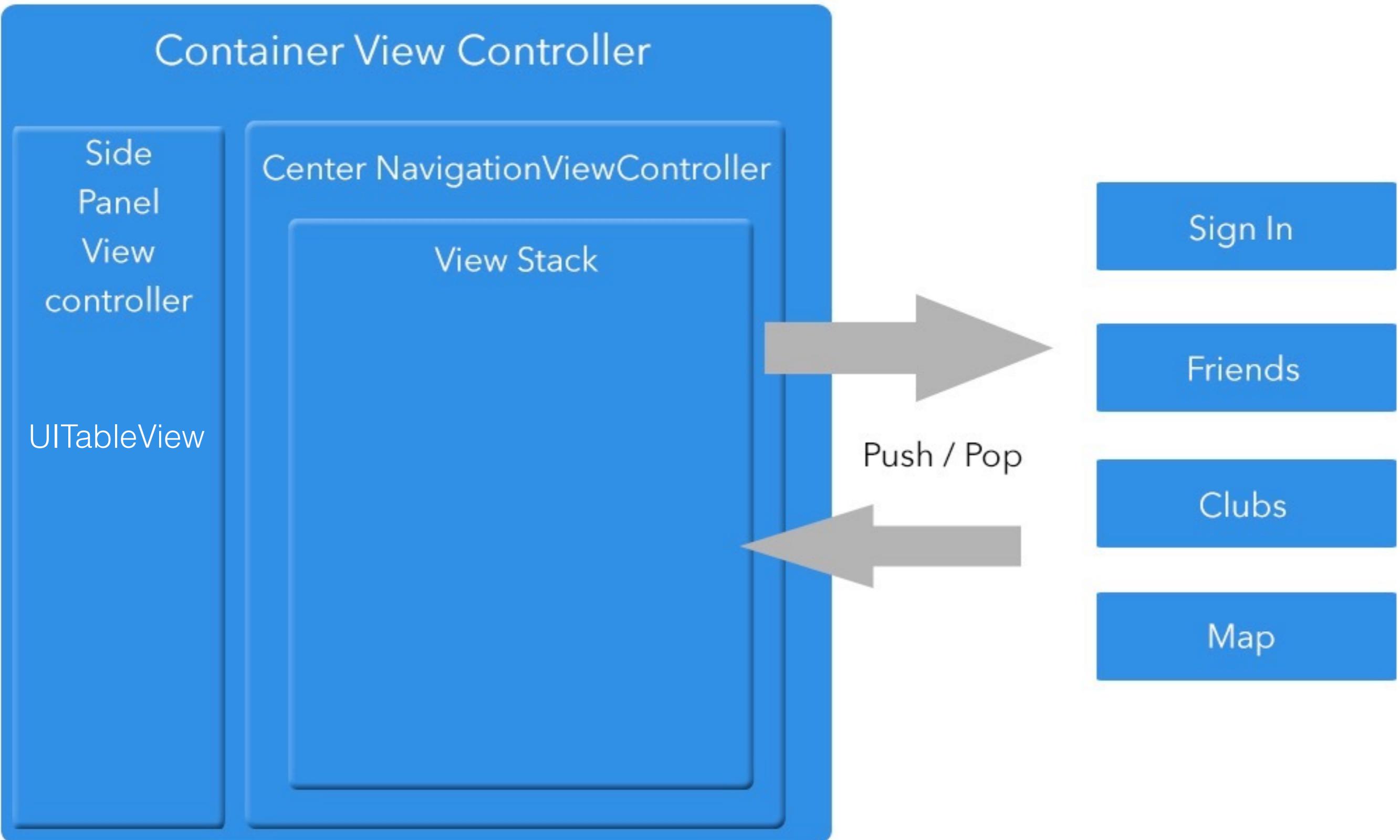


We wanted flock to be a quick and easy to use app. So we added a menu that facilitated quick navigation.

# Design Today



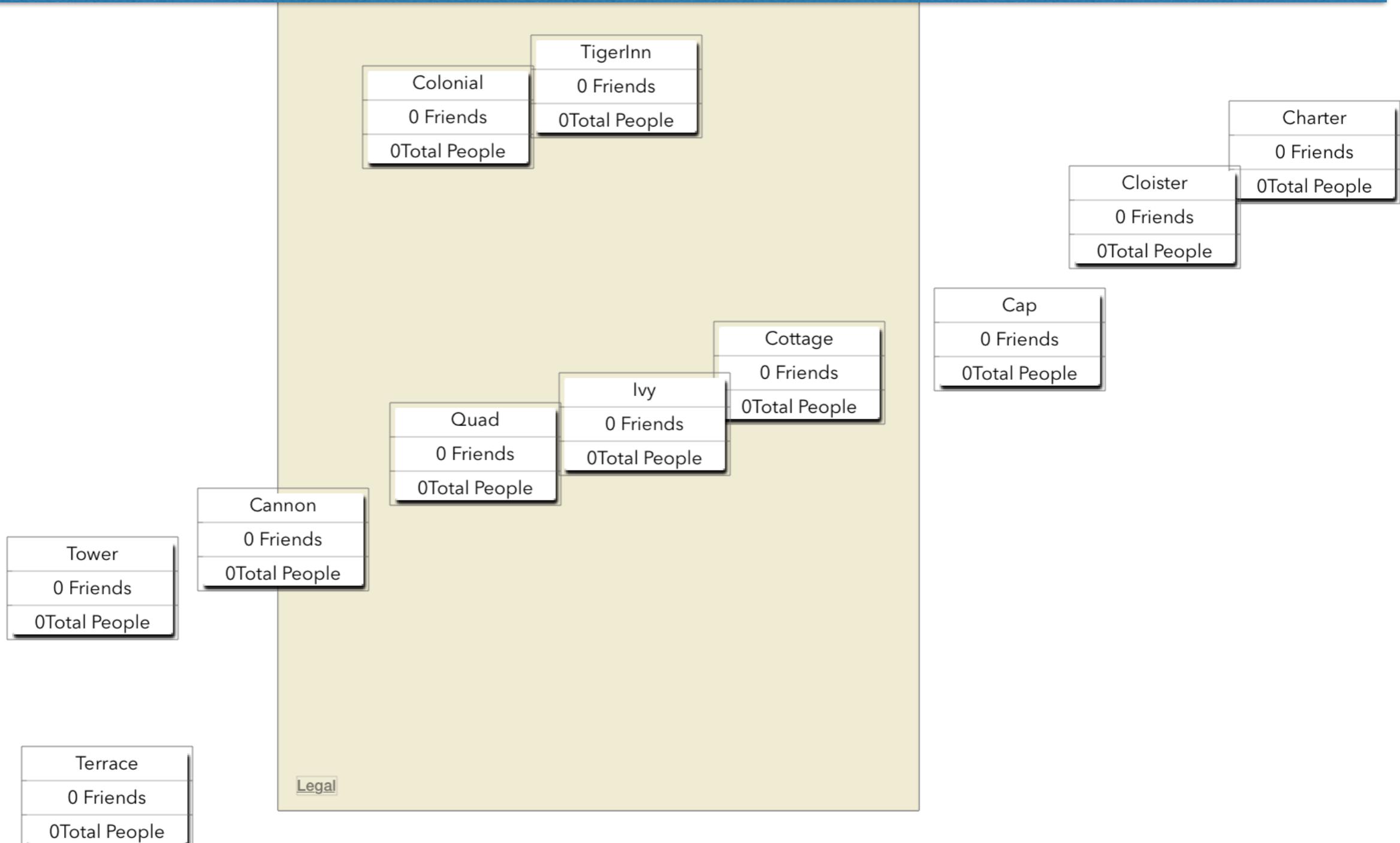
# The Menu

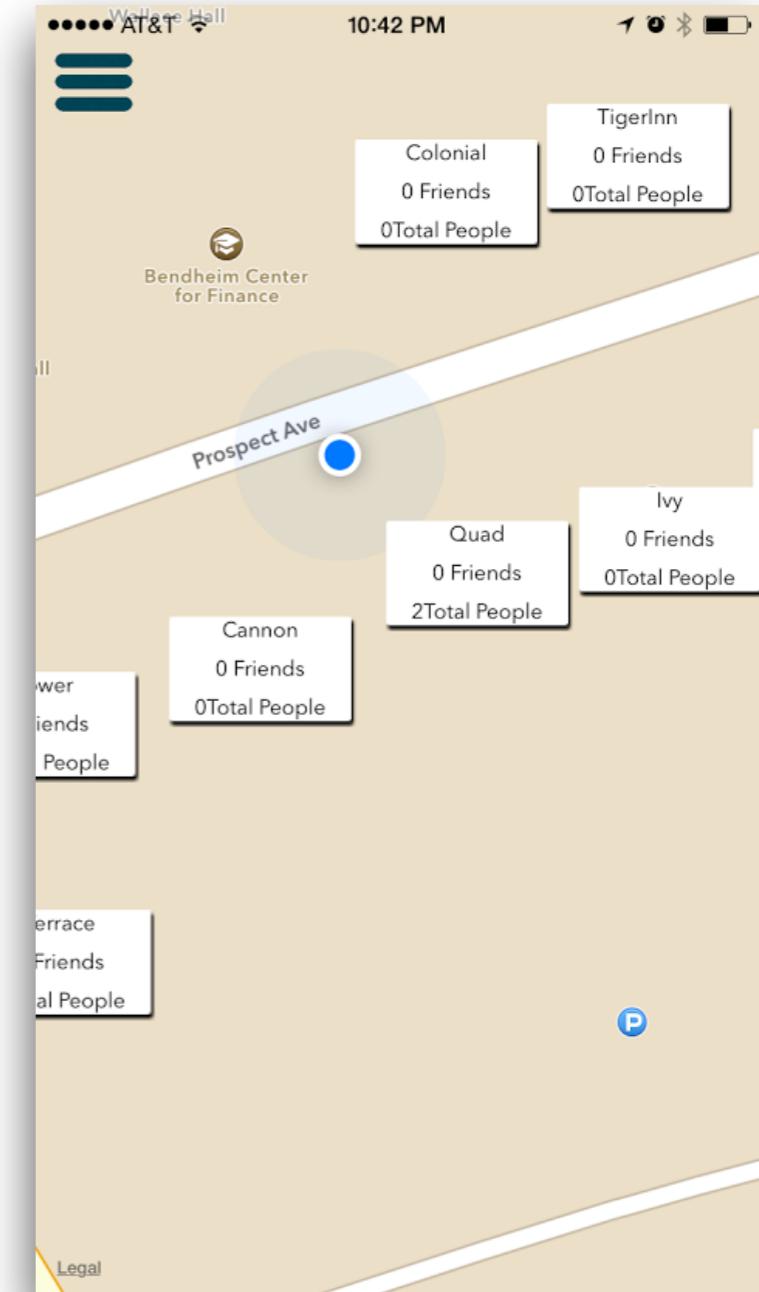
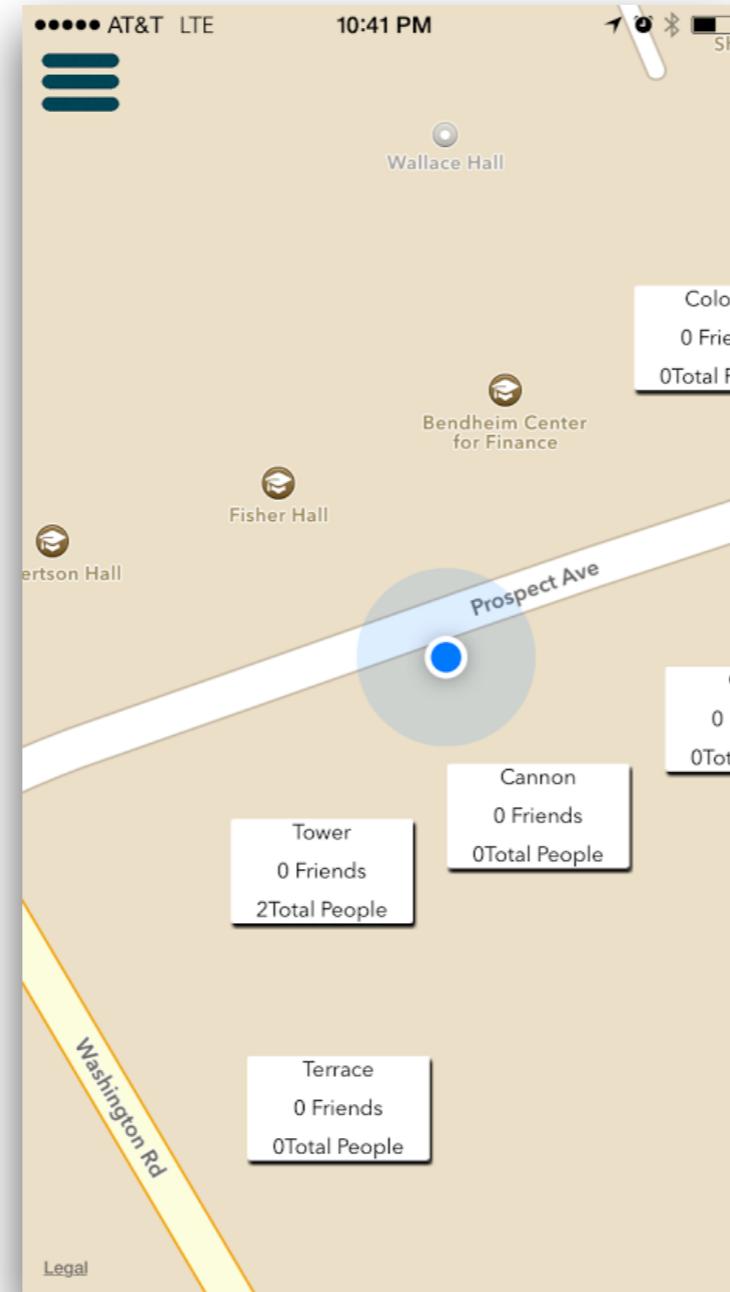
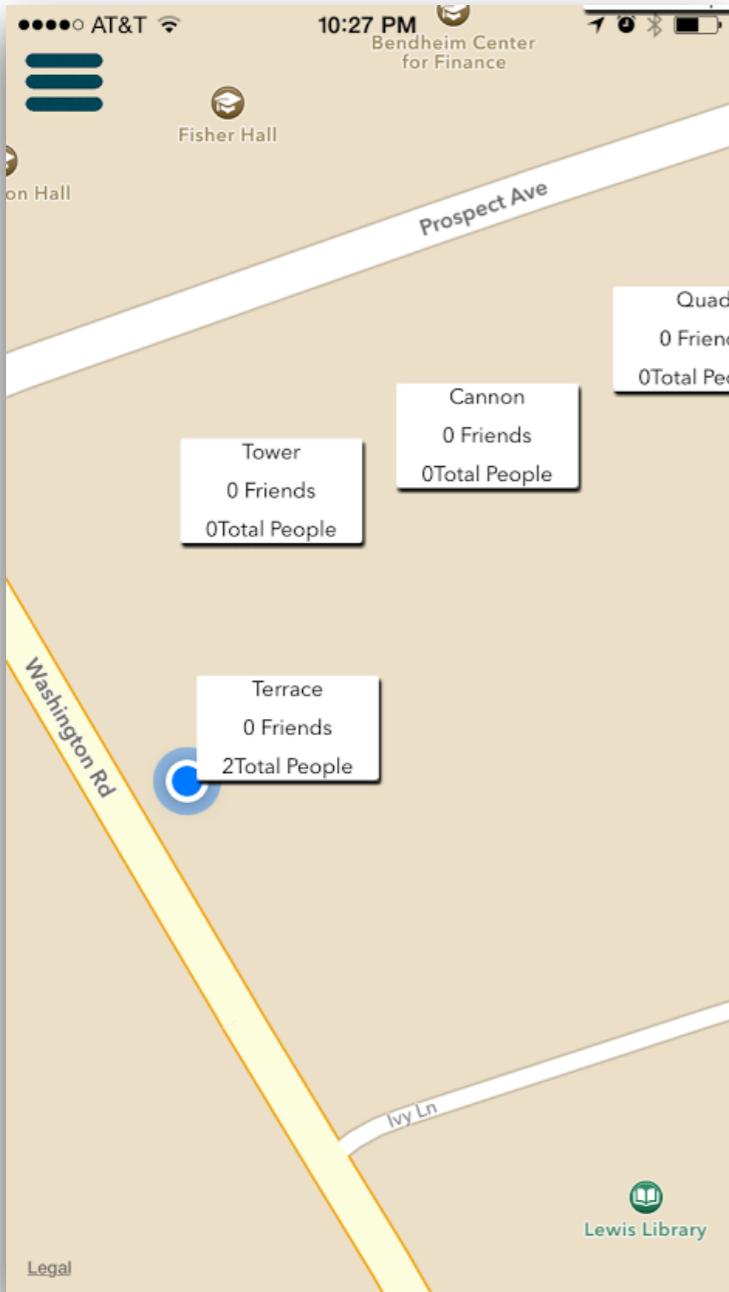




## MapViewPage : MKMapViewDelegate

```
func mapView(mapView: MKMapView!, viewForAnnotation annotation: MKAnnotation!) ->  
    MKAnnotationView!
```

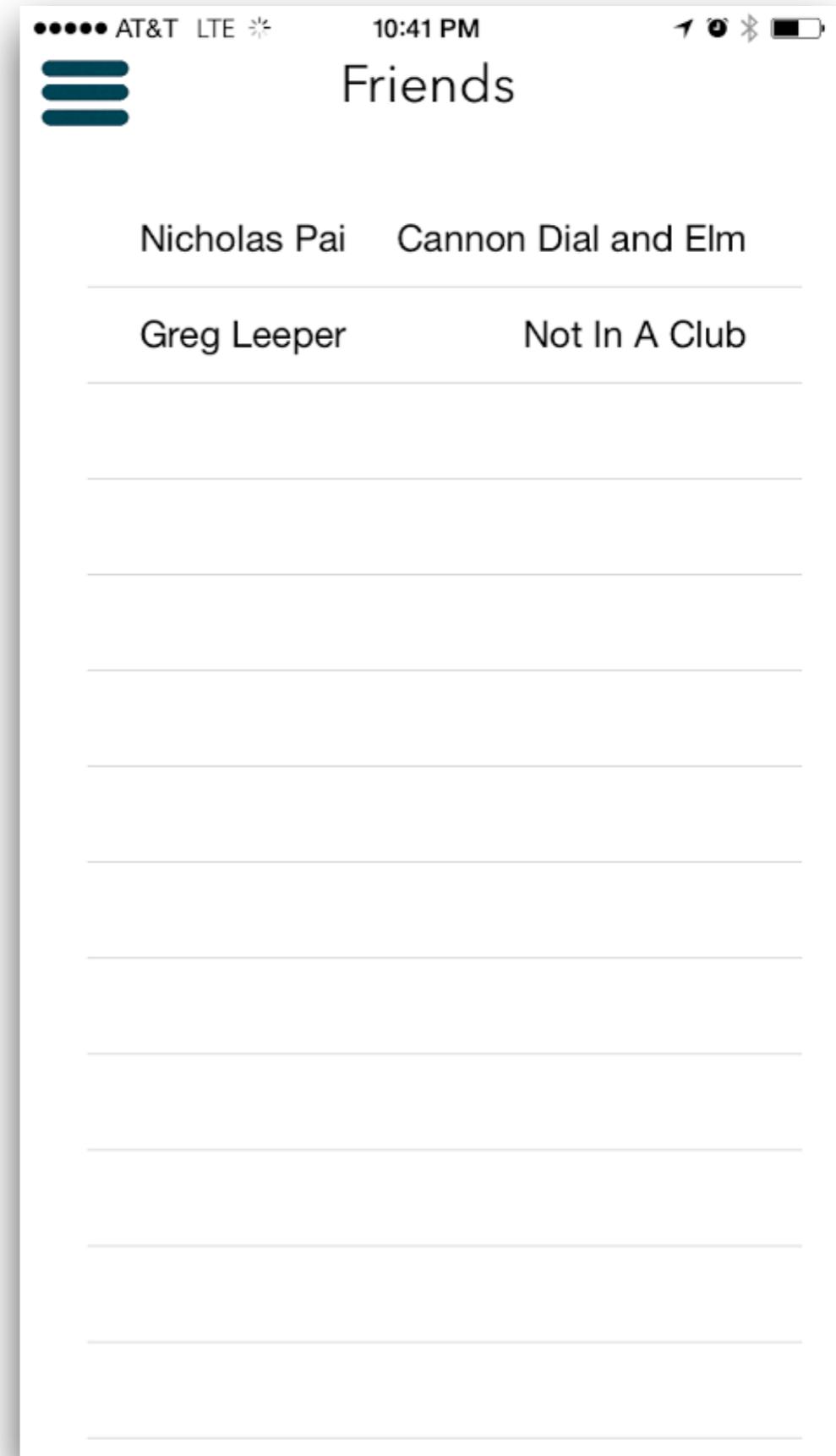




Walking down the street changed the information on the map



iPhone 5



iPhone 6

## UICollectionView

```
collectionView(collectionView: UICollectionView, cellForItemAtIndexPath  
indexPath: NSIndexPath) -> UICollectionViewCell
```

create a club cell from the array of club names

```
collectionView(collectionView: UICollectionView, didSelectItemAtIndexPath  
indexPath: NSIndexPath)
```

Set the detail club view's club name to what was tapped  
push the detail club view page onto the stack

# Next Steps and Issues To Consider

- GPS Accuracy on the Street
- Battery Life and performance
- Push Notifications : Still in the oven
- Get a member of each eating club to be a flock representative to



BIRDS OF A FEATHER FLOCK TOGETHER