

WAYFINDING AT UNION UNIVERSITY

ASHLEY RAINES

THE PROBLEM

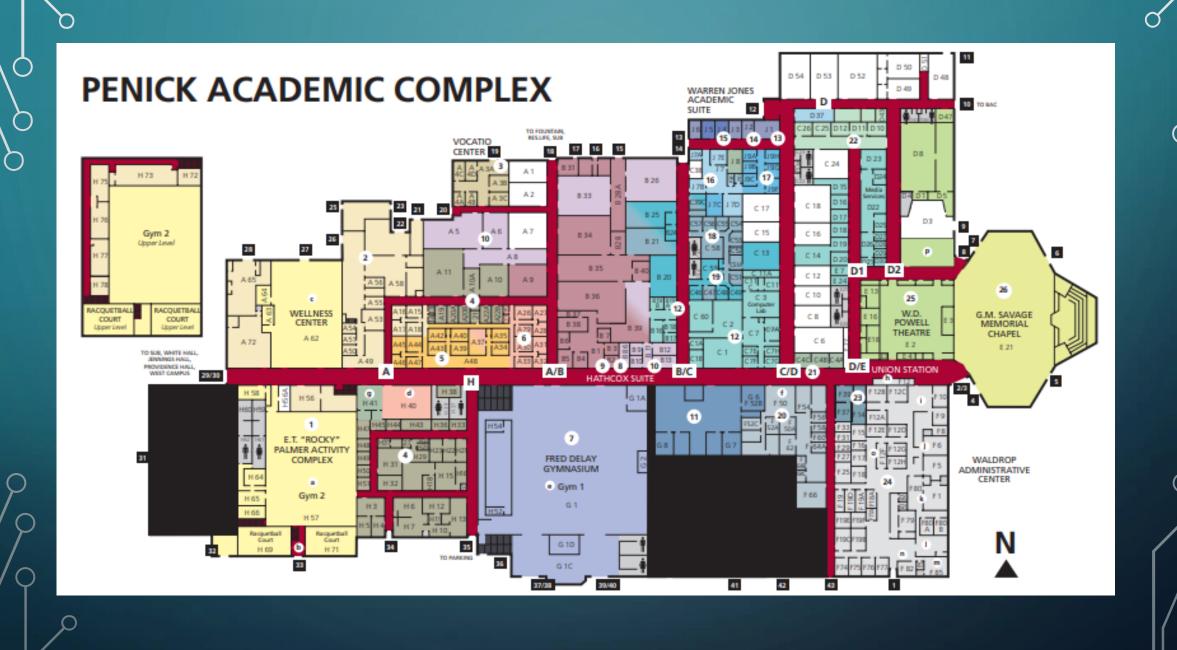
- Many students and visitors have a difficult time finding their way around Union's campus.
- We have one help desk in our biggest building.



THE PROBLEM

• This help desk is located next to the chapel. When looking at the overview of the entire campus, it is central, but when looking strictly at the academic side, it is secluded from where it may be needed most.





WHY DO WE NEED IT?

- Anyone who has experienced change will attest to this...
 Change is daunting!
- New students have a lot to worry about...
 - Moving into their dorms
 - Registering for classes
 - Getting class supplies
 - The list goes on

MEET MAPWIZE

 Mapwize is a French company who has created a mapping and directional API to be used in creating an indoor experience.

mapwize

https://www.mapwize.io/developers

WHY NOT USE GOOGLE MAPS?

- During this project, many people asked me "Why not use Google Maps?"
- Google Maps only uses GPS services which doesn't do very well indoors.
- In order to use an indoor location service, you need to utilize one of a few options...
 - Wi-fi triangulation
 - iBeacons
 - Cisco CMX

INDOOR LOCATION SERVICES

- With the Mapwize service, I chose to utilize the Wi-fi triangulation.
- Why?
- Mapwize has the triangulation built in to its service.
- Why not the others?
- The other options would need additional components or hardware that I didn't have the ability to attain or use.

```
<html lang="en-US">
         <head>
             <title>Senior Project</title>
             <meta charset="UTF-8">
             <meta name="viewport" content="width=device-width, initial scale=1.0">
             <link rel="stylesheet" type="text/css" href="./resources/style.css">
         </head>
         <body>
10
11
             <!--<h1 style="border:5px solid #ffffff;">Welcome to Union University!</h1>-->
             <div class="flex-container">
12
                 <div>
13
                     <a href="./resources/mapwize.html">
14
                     <img src="resources/UU_Crest_Vertical_Color_RGB.png" style="width:383px; height:568px; border:0;">
15
16
                     </a>
                 </div>
17
18
             </div>
19
         </body>
20
     /html>
21
```

```
var unionVenueid = '5c82a195a380850016b0226f';
var unionAPIkey = '95c9933eb6c1967381993901b64fb830';
MapwizeUI.map({
   apiKey: unionAPIkey,
   mapboxOptions: {},
   mapwizeOptions: {},
   onInformationButtonClick: (e) => {
    console.log('clickOnSelectedInformation', e)
    },
   onMenuButtonClick: (e) => {
        console.log('clickOnMenu', e)
}).then((map) => {
   console.log('MAP LOADED')
})
Mapwize.apiKey(unionAPIkey) //this is the api key which links the file to the mapping data
Mapwize.map({
   container: 'mapwize',
   color: 'crimson red',
   center: [-88.8617697,35.6844031] // this gives the long/lat coordinates for the venue
},{
   venueId: unionVenueid
}).then(mapInstance => {
   mapInstance.centerOnVenue(unionVenueid); //instructs the map to center on top of the venue
});
map.fitBounds([
    [-88.6, 35.4],
   [-89.0, 35.8]
]);
map.getFollowUserMode();
map.setFollowUserMode('FOLLOW USER');
```

• Just a problem or two... • iPhones won't let this function properly Android phones? It runs beautifully! No matter which type of phone you have, please take it out at this time and go to the IP address written on the board.



QUESTIONS?



THANK YOU!