# CyberTracker Mobile Client ArcGIS Integration

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# Project Goal

• Integrate CyberTracker Mobile Client with ArcGIS

#### CyberTracker

- Platform for data capture applications
  - Earth Ranger
  - SMART
  - CyberTracker
  - ArcGIS
- Built using Qt
  - Platform independent like Java
- Started in the 90's
- Icon based interface
  - Used by Kalahari Bushmen
- Conservation

### ArcGIS



**Geospatial Services** 

Viable Backend



**Conservation Grant** 

Monetary Benefit



Large Userbase

Expand CyberTracker

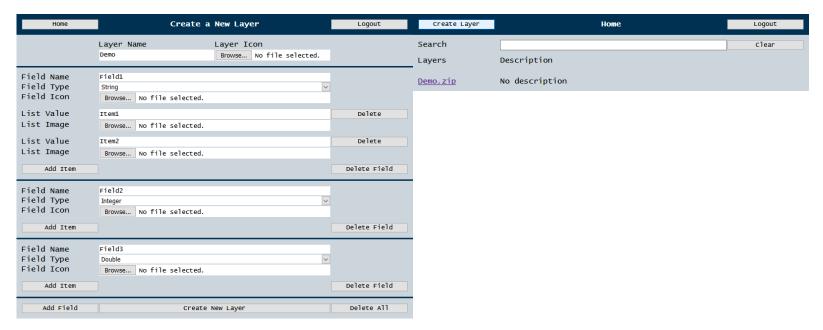
### Accomplishments





Created a third-party UI which can create projects hosted on ArcGIS that are usable by ArcGIS Mobile Client Create a specific case to handle ArcGIS integration on the mobile client

#### UI

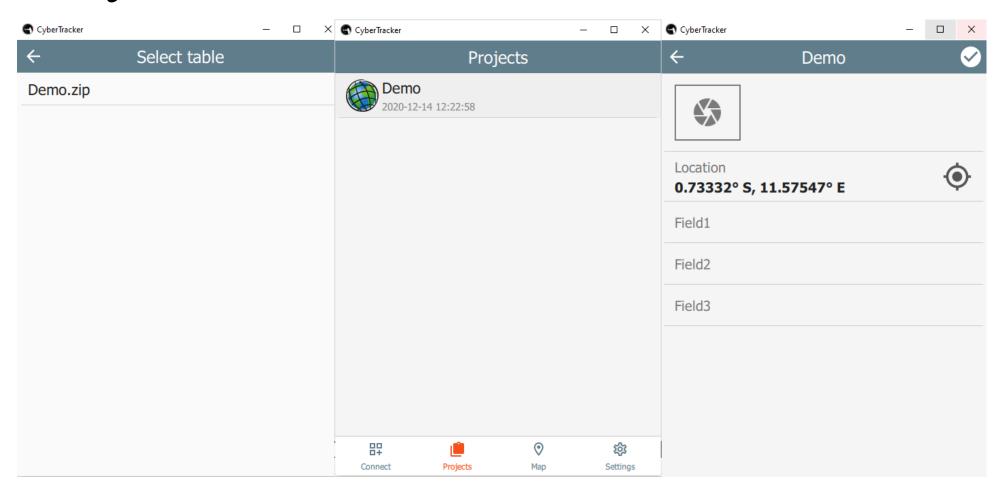


### ArcGIS

• Creates Feature Layer



### CyberTracker Mobile Client



#### Learning Technical Skills

- JavaScript
  - Mithril
- HTML
- CSS
- Qt
- ArcGIS REST API
- GitHub
- Azure Static Website

## Learning Soft Skills

Navigate an old code base

Work with other people

#### What I Liked



Seeing a large project come together



Learning new tools



Working on something I'm passionate about

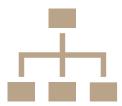
#### What I didn't Like



Minimal documentation on code base



No tests on codebase (UI are notoriously difficult to make test cases for)



Undeveloped workflow (Organization is very small)

#### Courses

CSS 350 | CSS 360 | CSS 370 | CSS 342

CSS 343 | CSS 430 | CSS 434

### Pitfalls



Ask more questions



Reach out when stuck



Create new documentation



Learn tools before studying code base (Qt and SQL)

Questions

