

Web GIS Project 2: Web and Mobile Apps to Support VGI Collection

Grading: 50 Points

Description: Create a series of apps that allow users to enter data into a hosted feature layer to collect volunteered geographic information (VGI). This will include two web apps, a mobile app, and a data dashboard. The theme and purpose of the data and tools is up to you.

Notes:

- ❖ The hosted feature layer will need to be shared and editable by at least the members of the WVU organization. You can share it publicly if you'd like.
- ❖ Use available ArcGIS Online configurable templates to create the web apps.
- ❖ Build the dashboard using ArcGIS Online.
- ❖ Build the Mobile App using the AppStudio for ArcGIS software.
- ❖ All apps should reference the same hosted feature layer and web map.
- ❖ You will need to enter some example data into your hosted feature layer.

Rubric:

- ❖ The hosted feature layer should contain at least one field that makes use of a ranged value domain and one field that makes use of a coded values domain. The collected data must be differentiated into categories using the field with the coded values domain applied. **(Up to 5 Points)**
- ❖ Editors/users should be able to upload photos along with the geospatial and attribute data. **(Up to 5 Points)**
- ❖ One web app should allow users to edit the hosted feature layer by interacting with the hosted feature layer in the map space. The other app should allow users to enter data into a form. **(Up to 5 Points)**
- ❖ The data dashboard should include a map, legend, feature count, and pie chart representing the proportion of features in each category. **(Up to 5 Points)**
- ❖ Different symbols should be applied to each category in the hosted feature layer. **(Up to 5 Points)**
- ❖ The mobile app should have a well configured interface that uses custom backgrounds and icons. **(Up to 5 Points)**

- ❖ Ancillary data layers must be included with the web map. You cannot just use a base map and the hosted feature layer. All data should be appropriately symbolized and pop-ups should be configured or disabled. **(Up to 10 Points)**
- ❖ Overall quality of maps, apps, and data presentation. The resulting apps should be professional, functional, and well configured. The apps and map should have a clear theme and purpose and be designed with these in mind. **(Up to 10 Points)**

Deliverables:

- ❖ URLs for both web apps and the data dashboard
- ❖ Window 10 64-bit executable file for your mobile app