

Questions from Dr. Griffith:

1. *How do I create the file structure and move files for the project into my WordPress Account?*

It is assumed that this project will initially be deployed to UMW's Domain of One's Own WordPress platform, under an account and subdomain owned by Dr. Griffith. All that is necessary to complete the deployment is to copy the preexisting file structure stored on the GitHub into the root folder of the subdomain.

To create the subdomain, go to the DoOO dashboard at <https://umw.domains/cpanel/> and click on "Subdomains" on the "Domains" panel. Enter the subdomain name and click "Create".

The next step is to copy the file structure as it is stored on the GitHub into the root folder of this subdomain. On the DoOO dashboard, click on "File Manager" on the "Files" panel. In the file manager, find the root folder of the subdomain on the left navigation and select it. Then use the "+ Folder" and "Upload" buttons on the topbar to add all the folders/files so that the file structure is an exact mirror of that on the GitHub. That should be everything that is necessary to set up the subdomain.

2. *How to change or update the ArcGIS Online API within your code?*

Go to the `js/main.js` file of the project and change the URL of the `FEATURE_LAYER` constant at the top of the file. This needs to point to a valid ArcGIS Online feature layer which has been hosted as a feature server.

3. *Provide an information flow chart or processing order or logic structure of your code.*

The web application largely relies on the JavaScript for its functionality; the HTML sets up the page layout and the CSS styles it. The steps taken by the JavaScript are roughly as follows:

- 1) Use the ArcGIS API for JavaScript to pull the data from the feature server (this is done only once at the web application launch) and build a standard ESRI map with some custom widgets.
- 2) Wait for user input using callback events.
- 3) If the user sets a filter, apply it to the feature layer and filter the list of tree features (this is done client-side). If they click a tree or use the keyboard navigation, show a popup for the selected tree.

The code is commented quite decently, so future developers can look at the source files for detailed explanations of how they all work.