

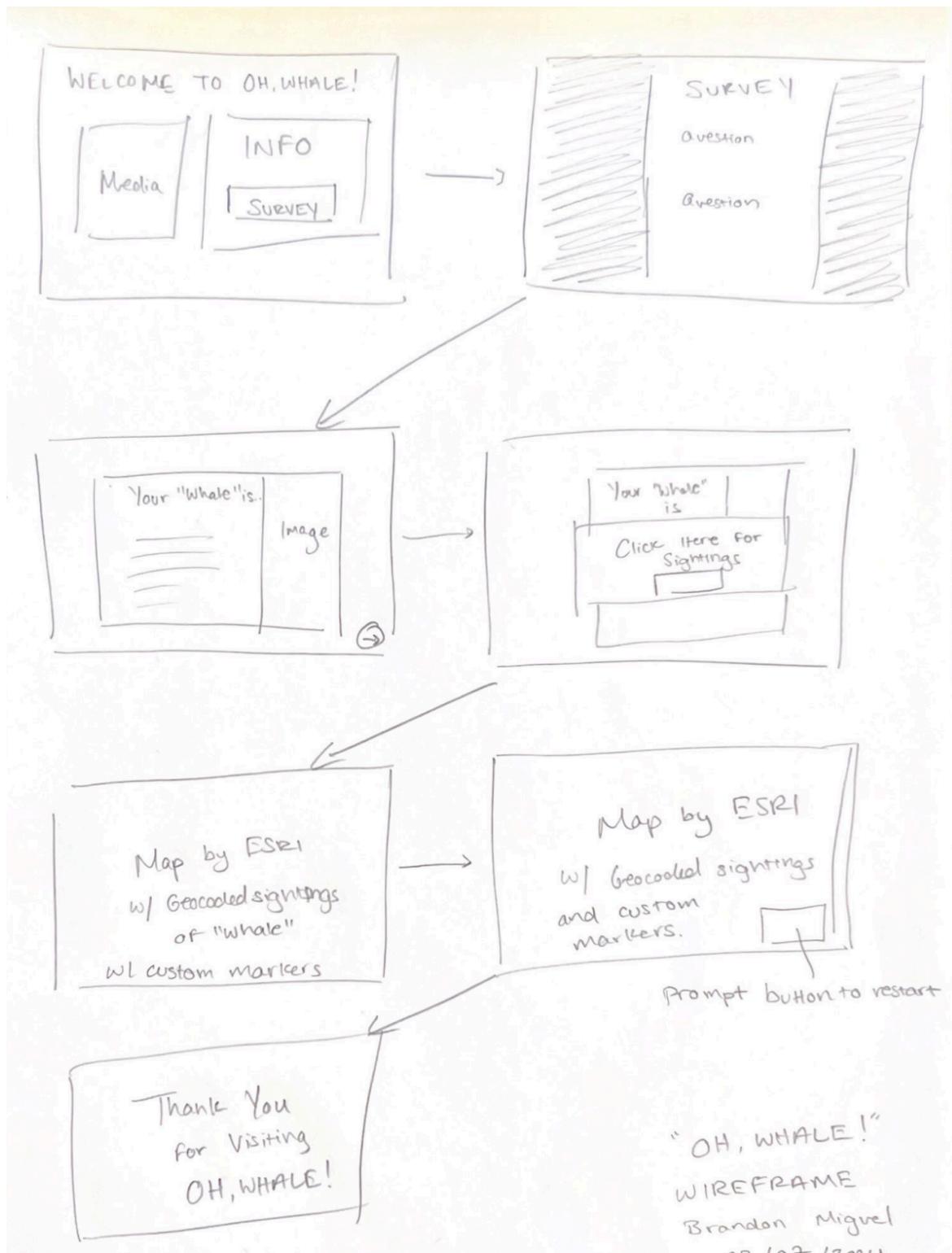
Abstract

The app I want to construct is called Oh, Whale! This would be a fun application for users that enjoy learning about marine animals, especially our mammalian ones, and find out where these animals have been spotted currently around the world. This would consist of the usage of ESRI.js with VS code to provide our HTML front end view for users and a Survey to prompt users on the type of marine animal they would be, restricting it to our large mammals to be consistent with the theme. The app would be a source of education regarding our marine wildlife and bring awareness to the animals that are affected by our current trend with global warming and human encroachment. The site would add fun little statements about why the user is identified as the type of animal they were chosen with some insight on marine wildlife.

The app would first prompt users with a welcome message to the app and would then ask if they would like to participate in their “undersea journey”. The surveys would prompt itself with multiple personality-type questions that would then end on their “whale” type, ranging from the big blue whales to the smaller dolphin cousins. The app would then transition to the Esri.js base maps with multiple options on the type of base map they would like to view their information in. The basemaps would add a creative flair based on their options. Afterwards we would then have markers pinpointing the location the “whale”, or marine mammal, can be found in with information about their endangerment status, diet, familial relations, and personality.

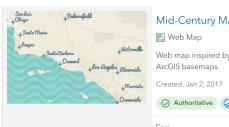
The users of the application would be able to restart the website by clicking on a pop up about restarting the survey to see if they can match themselves with another species instead. The map overall would include custom markers of the location of the species that can be found based on the user’s answers and would also be able to toggle the different marine mammals that can be viewed on the map to compare locations and see if other animals can be found nearby. The end result may be consolidated to a few mammals based on the available information and its ambition but this app would still aid in bringing awareness of the animals being affected by nearby human encroachment activities or even the general ecological trend in our world today.

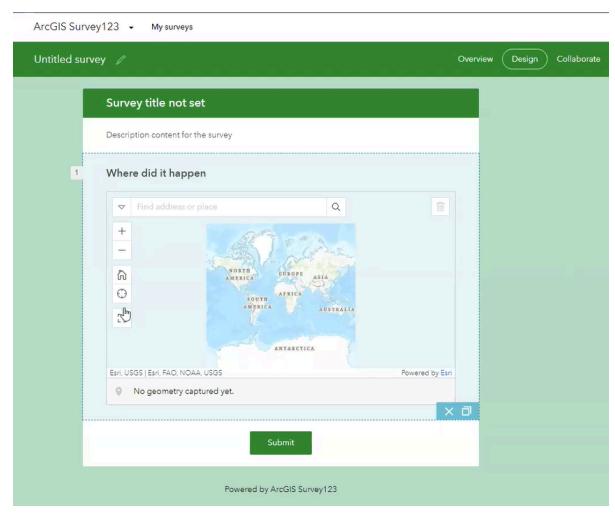
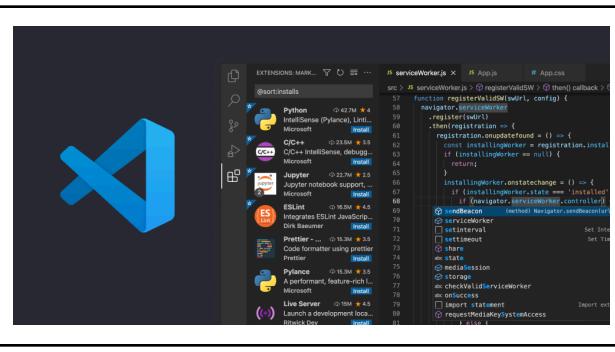
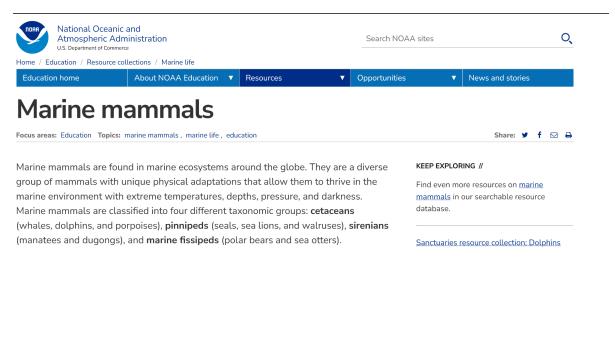
Wireframes



Data Table

In addition to wireframes, you will need to provide a table of datasets with sources. This table should list all datasets your application uses and their sources. This includes existing datasets such as basemaps.

 <p>Mid-Century Map Web Map Web map inspired by the art and advertising of the 1950's, this customized vector style presents a unique design option to the ArcGIS basemaps. Created: Jan 2, 2017 Updated: Feb 29, 2024 View count: 244,991,917 Authoritative Living Atlas</p>	Mid Century Base Map provided by ESRI https://www.arcgis.com/home/item.html?id=867895a71a1840399476fc717e76bb43
 <p>Modern Antique Map Web Map Unique vector web map customization. Updating the look of 18th and 19th century antique maps in the modern world of multi-scale mapping. Created: Jun 26, 2016 Updated: Feb 29, 2024 View count: 246,888,366 Authoritative Living Atlas</p>	Modern Antique Base Map provided by ESRI https://www.arcgis.com/home/item.html?id=f35ef07c9ed24020aadd65c8a65d3754
 <p>Imagery (WGS84) Web Map This web map features satellite imagery for the world and high-resolution aerial imagery for many areas. It uses WGS84 Geographic, version 2 tiling scheme. Created: Jun 13, 2016 Updated: Feb 9, 2024 View count: 1,249,926 Authoritative Living Atlas</p>	Real Time Imagery Base Map Provided by ESRI https://www.arcgis.com/home/item.html?id=52bdc7ab7fb044d98add148764eaa30a
 <p>Antarctic Imagery Web Map The Antarctic Imagery map provides 15m TerraColor imagery for the polar region. Created: Feb 5, 2016 Updated: Jun 26, 2020 View count: 356,871 Authoritative Living Atlas</p>	Antarctic Imagery Base Map Provided by ESRI https://www.arcgis.com/home/item.html?id=6553466517dd4d5e8b0c518b8d6b64cb
 <p>Arctic Imagery Web Map The Arctic Imagery map provides 15m TerraColor imagery for the polar region. Created: Jul 9, 2015 Updated: Dec 16, 2020 View count: 311,569 Authoritative Living Atlas</p>	Arctic Imagery Base Map Provided by ESRI https://www.arcgis.com/home/item.html?id=7ec08e5438304dbfa1e26181503e6fa8
 <p>Ocean Basemap Web Map The Ocean Basemap includes a vector tile layer for bathymetry, surface and subsurface feature names, and derived depths. This map is designed to be used as a basemap by marine GIS professionals and a reference map by anyone interested in ocean data. Web Map Item updated: Feb 29, 2024 Authoritative Living Atlas</p>	Ocean Base Map provided by ESRI https://www.arcgis.com/home/item.html?id=67ab7f7c535c4687b6518e6d2343e8a2

	<p>The surveys that would be conducted by the user would be developed using Survey123 which connects with our coding and helps to display the information on our app.</p> <p>https://survey123.arcgis.com/</p>
	<p>VS Code to develop the necessary algorithms and coding backend to construct the map displayed for the user based on their survey answers.</p>
	<p>This source would aid in providing the biography of the species that was chosen for the user and as well describe their overall information and current positioning on their endangerment status.</p> <p>https://www.fisheries.noaa.gov/resource/map/north-atlantic-right-whale-sightings</p>
	<p>https://www.pacificwhale.org/what-we-do/research/animals/whale-dolphin-tracker-live-sightings-map/</p> <p>Foundation that developed a similar map regarding a wider variety of whale and dolphin species. This is one of the inspirations for this application.</p>
<p>More Datasets may be present for Whale and Marine Mammal Information.</p>	<p>This will be updated with the progress of the application.</p>