OPEN ETHICS & DATA SCIENCE

Project Proposal

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About the Project

This initiative is devoted to **Australia's wildlife** and its significance. The Australian government offers the most accurate and detailed data on animals, according to the data through out the years and enviormental significance. For instance, the entire range of species types, classes, and kingdoms is displayed in the database, which is publicly available on their official website.

The approach used for this project is to use excisting database on the Australian government that includes a **user-friendly webpage** that illustrates the species' spread throughout the Australian region. This will be accomplished using an interactive map that shows the locations of all the national parks as well as other features. In addition, the website will have a number of pages with specific data presented as a table or graph to give more information about the species's actual estimation.

It is critical to be aware of our surroundings, and especially with the high level of extinction and wildlife hunting, it is valuable to be able to access such knowledge all over the world, but due to the project's time constraint and data access that wasn't always public, Australia itself was the easiest choice for making such prototype to display not just the locations but also the insight on the data itself. Aside from that, Australia is well-known for its diverse wildlife, which includes poisonous spiders and the famed Tasmanian devil, which has been featured in films and television shows. These are just a few instances of the species found in Australia.

Goal and Idea

This part of the proposal dives into the goal and ideas for the LookBook project.

GOAL

The goal of this project is to first **promote awareness about the species in Australia** and then to make it as user-friendly as possible in order to educate our users about the wildlife based on their location and preferences.

IDEA

The project's idea is to **establish an Australia-focused website** that will include:

- Home page with general information about the data and the content.

- Map preview page with location makers and a search bar of Australia's national parks.

- Species division page based on animal kindgoms to use a visual approach to show the data (tables, barcharts, and so on).

Proposed Timeline

1 Defined Idea

2 Data Findings & Cleaning

3 Website prototyping

4 Finalization

The chronology was built around the following bullet points:

- **Idea**: the time spent brainstorming about the project and coming up with an instructive and beneficial project idea. The main advantage of the "LookBook" was that it allowed users to educate themselves about the species and environment we were in.
- **Data**: the goal here was to find a dataset that is available without the use of third-party programs and estimate it using json.

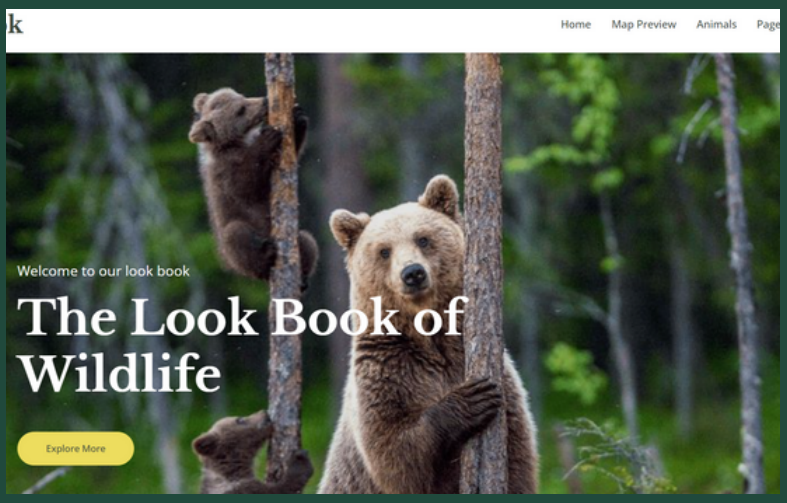
- **Prototype**: Because the goal is to create a "user-friendly" application, the website was a natural choice for the project's core technical development, as it allows for the use of data and the creation of code using HTML, CSS, and Java.

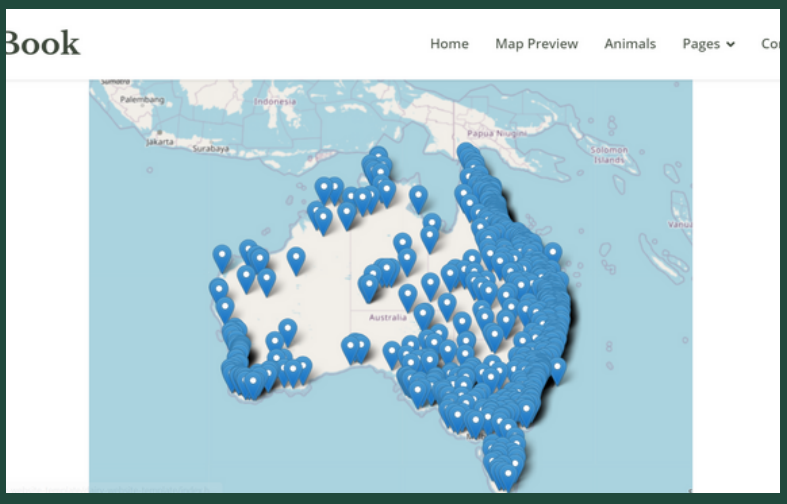
- **Finalization**: entails the use of duplication, missing data, and so on, as well as cleaning the template from the website and providing the project's final presentation.

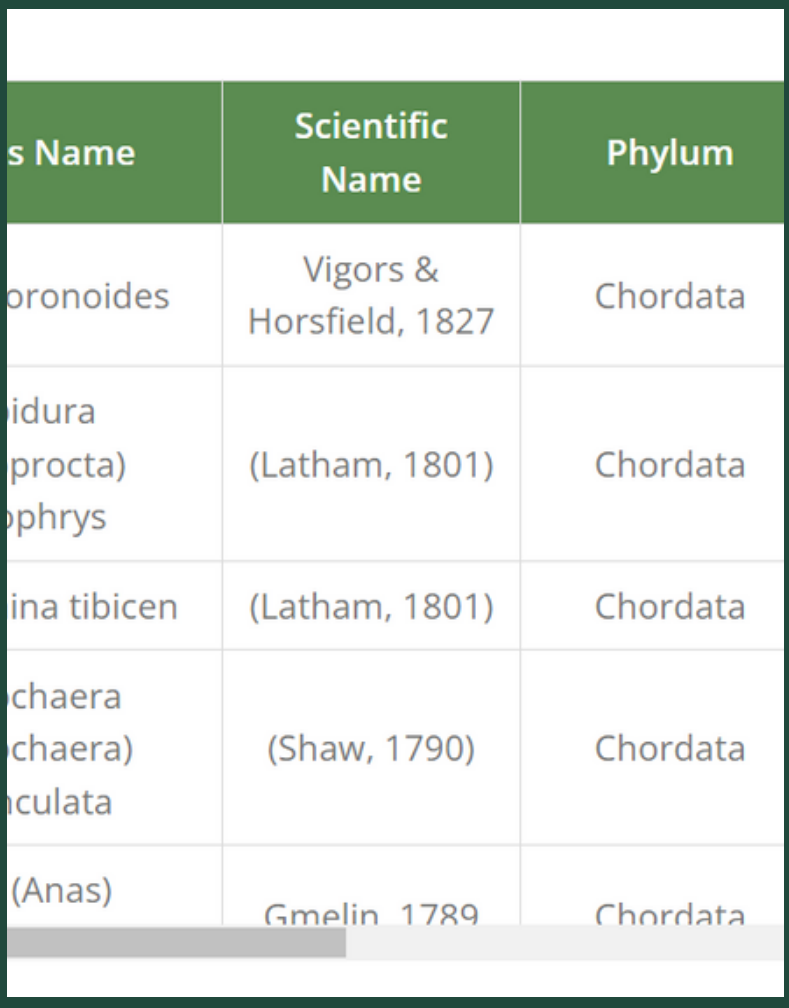
Website Estimation

The website is the significant prototype of this project, for which a Boostrap template with pages was utilized to avoid time constraints and make the project more ideal and appealing to users' eyes.

The webpages follow green-white patterns to help visitors' eyes, and they include information about animals, their types, names, and so on. The major acknowledgement is the page with the preview map, which shows all of Australia's national parks.







s Name	Scientific Name	Phylum
oronoides	Vigors & Horsfield, 1827	Chordata
idura procta) phrys	(Latham, 1801)	Chordata
ina tibicen	(Latham, 1801)	Chordata
chaera chaera) nculata	(Shaw, 1790)	Chordata
(Anas)	Gmelin, 1789	Chordata

Data Sets

The data sets were initially selected from the Queensland government database, which offered information such as the retrieved species, names, profiles, comments, statuses, photos, species survey locations, and project information. However, there was a constraint during the project's development stage when access to all of the speices was disallowed and examples offered were only focused on the amphibia kingdom and with 6 frog examples.

As a result, there was a shift in the dataset that concentrated on the locations of national parks around the world. Such a dataset included the country code, country name, geolocation, and park names, and in order to use it in the project website, there was data utikization and filtering of the data to only keep the national parks in Australia.

The final dataset comes from Australia's geolocation and national database, where species are provided with names, kingdom names, family type, geolocation, and so on. That data is somewhat large, but it contains the essential data and species information required to complete a successful project. To make the project more detailed, the initial dataset will be used as a reference approach.

Species Name	Taxon Rank	Kingdom	Number of records
Corvus coronoides	species	Animalia	2799
Allium triquetrum	species	Plantae	4
Tubifera glareata	species	Protista	1

References

1.c=AU; o=The State of Queensland; ou=Environment and Science. (2023, January 5). Qld Wildlife Data API - Open Data Portal: Queensland Government. Dataset - Open Data Portal | Queensland Government. https://www.data.qld.gov.au/dataset/qld-wildlife-data-api

2.Filter Australia National Parks Data. GitHub. (n.d.). https://raw.githubusercontent.com/flafoo23/OpenData/main/text_filtered.json

3.Filtered Data on the Australian Species DataBase. GitHub. (n.d.-b). https://raw.githubusercontent.com/CatarinaMendes04/Opendata/main/csvjson.json