

Project Proposal

CS320 Fall 2022

Company Name:

Bird Wootchers

Application Name:

Bird Up

Proposal (>= 300 words):

Our software will be a comprehensive bird watching tool localized to Wooster. It will contain an encyclopedia of all avian life both local to Wooster, and those that are known to migrate to and from the area. The main function of the application will be a system like Akinator, whereby you will be asked a series of questions about a bird you saw/are looking at. Based on your responses (is the bird brown, is it near a body of water, etc.) The software will parse through the database of birds in Wooster to determine which bird the user saw. Once the bird is identified, it will add a count to that entry in the bird encyclopedia, showing how many times you have seen that specific bird. Each bird will also have points associated with it, depending on the rarity of it. These points will be used to calculate a user's rank, a feature we are using to make bird watching more fun. The more birds you find, the higher your user rank.

The goal of the software is thus to try and gain a high user rank, which we believe will incentivize users to continue bird watching during different times, weathers, and seasons, to gain a higher rank. In terms of issues with our application, finding a complete database of known avian life in/around Wooster and creating an algorithm to search through them will be quite challenging. Lastly, our intended audience for this software is wildlife enthusiasts and people new to bird watching who want an easy way to keep track of how many birds they have seen. Due to it being a more technologically advanced way of recording bird watching results, it is likely that mostly younger people will be using the software.

Features:

1. Find Bird: Asks the user a series of questions to identify a species of bird
2. Bird List: Encyclopedia of birds common to Wooster. Contains Scientific name, common name, and information about the bird (wingspan, diet, etc.).
3. Bird Counter: Keeps track of how many birds of a specific species you have seen.
4. Bird Notes: Add custom notes under a bird's entry in the encyclopedia.
5. Bird Map: Drops a pin where you saw a specific type of bird so you can keep track of areas where certain species are more common.
6. User Account: Allow the user to create an account so they can access their information on all devices.

7. User Rank: A measure of how experienced the user is in birdwatching. The rank will be determined by the total number of different types of birds seen.
8. Light/Dark mode toggle.
9. Sharing User Rank: Option for the user to share their rank in a quick and attractive way, like how one shares their Wordle score. This will be used to allow fellow people who use the application to share their progress.
10. Notifications on Migration: Sends a notification when the migratory season begins so users can keep track of when the birds in an area are likely to change for the season.
11. Post generator: Upload your own picture of a bird and have information of it from the encyclopedia overlay so that users can quickly create content for posts online.