Dalton Murray

Systems Analysis and Design

INT 6123 – Systems Analysis and Design

Dr. Andrew Makar

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**IA #1 System Vision Document**

Problem Description

There are already existing geocache websites, however, Wayne wants a personalized geocaching website.

Geocaching involves getting a set of coordinates, going to it, and finding either a cache which will often include a small item and a logbook where you can write down information such as your name and date you found the cache. After this, you will typically put in the cache your own small item and return it to how it was before you found it, such as if you had to move things or untie knots.

With geocaching, when you get the first set of coordinates it may go to a hint or some other clue which you then follow for a number of sets of new coordinates or clues until you eventually find the cache.

This system should be able to handle Wayne creating his own caches and allowing the public to create accounts and interact with the caches. It should also work as a logging system and act as a way to get hints and clues if necessary. On top of this, a geocaching system will often allow you to rate the difficulty of the cache, which should be included too.

Scope

The scope of this project will include the building of a website which allows Wayne to post, modify and delete his geocaches while also allowing users to create accounts and interact with the caches.

System Capabilities/Requirements/Needs

* Creating a website and/or app that allows Wayne to post his own geocaches
  + Allow users to create accounts and search for available geocaches by distance, difficulty, and other filters, and have their own logging system
  + Allow users to get hints on the cache when stuck
  + Allow users to post pictures, comments and mark it for people to see who haven’t tried the cache yet (avoid spoilers) and mark it so people who have completed it or failed can get information too
* Include a detailed logging system of who attempted a cache, who succeeded, who failed, if anything about the cache was modified by an outside force (nature, weather, animals, etc.) such as including a reporting system
* Include any other necessary requirements of a geocaching system such as a detailed GPS/coordinate tracking system

Business Benefits

This is more of a passion project rather than a business venture currently, however, there are still some benefits to this.

* Allow people to be able to find more caches in various locations which other apps may not have
* Allow people to track and log their own caches
* Spread joy and happiness to people who enjoy going on hikes for caches or otherwise adventuring and exploring to potentially new places

If Wayne decided to turn this more into a business venture, there are also more benefits such as it being potentially monetizable.

I have neither given nor received unauthorized aid in completing this work, nor have I presented someone else's work as my own.

*Dalton Murray*