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**Read Me**

**Project Overview (and my development thoughts)**

* If I was to be placed in charge of this project I would develop it to be a web application. I would use Java and the Spring Framework for the server running on Amazon Web Services.
* I would also develop a RESTful API that outputted JSON so that we could develop a mobile application and a website.

Issues I Saw

* File Upload: I am used to working with data and pulling data from a relational database. I would have developed SQL quiries to pull the data I wanted.
* User Input: I felt that accepting user input from a command line was fine for this application but would be very complex for any end user facing application. It would be much easier to accept user input through standard web and mobile forms.
* Security: If was to develop this further I would spend a lot more time on security utilizing encryption and hashing where necessary. Currently, the program trusts that the user will not intentionally try to compromise the program but I would never assume this in a live setting. I also usually would develop security in from the ground up.

**Testing Methodology**

**Pet Search:**

Unit Testing:

* Unit testing is testing the smallest testable parts of the software or application you are developing.
* This program has essentially has five testable components as it is currently designed.
  + The intake function which we will assume is an uploaded file in the (.csv) format will need to be tested as one unit test
  + The next three unit tests will be looking at the search functionality of looking for a pet by location, type and gender
  + Searching by combination will also require a unit test but a slightly more complex sequence of tests that will test as a combination of location, type and gender.
    - Type, location and gender
    - Type and gender
    - Type and location
    - Location and gender

**Adoption:**

**Integration Testing**

This software as it currently stands will have two main

**System Testing**

**Acceptance Testing**

**Tools (Version Control)**

Utilizing a version control system is a revolutionary way to manage the complexity of large scale software projects and even small ones. Personally, what I find to be helpful is a number of useful tools like merging, branching, cloning and allowing a team to work out of a centralized repository.

If I had to discuss what I find annoying about them there is not too much. I think one of the main things would be handling merge conflicts.

**Code Documentation**

**Long Term Project Goals**

**Adoption Functionality**

Manage Adoption Eligibility

* SQL Table

Manage Adoption Fees

* SQL Table

Supply an Adoption Record

* SQL Table
* JOIN with other tables

What else do you need to know