Risks, Assumptions, Dependencies and Constraints

**Risks**

As this piece of software is entirely a data gathering program there is no risk of harm to any user. That being said there are risks of generating erroneous or misleading data. Hopefully through good database design and careful query setup these risks can be mitigated.

The main risk faced is incorrectly implementing the algorithm. Clearly successful completion of the project hinges on this being correct. The likelihood of this happening is fairly low as the paper provided (*reference to paper*) clearly outline the algorithm and testing should be fairly straightforward. That being said the impact of this risk is obviously very high and so due care must be taken.

The second risk of generating misleading data stems from the usage and design of the search/query page of the website. This needs to be carefully designed with input from the client to make sure it is simple and easy to extract the sort of data they want. It should also export it in a way that is easy for them to analyse in an error free way. If the clients properly involved in the planning of this step the risk should be reduced. Also as the data is going to be used by people trained and experienced in data handling and analysis the impact of this is not particularly high.

Another risk consideration is security. As a web page accessible by anyone the page must be made secure. This will include making sure the pages are only available over HTTPS and modelling the database query page to avoid the possibility of SQL injections and other attacks.

Finally, there is the data protection risk. As the camera traps are left in public places the database may contain many images of members of the public. These images should be removed from the database to avoid any privacy issues. Although this is not directly under the scope of our project it is still worth consideration and due care.

**Assumptions**

We assume that the user is able to use a simple and hopefully straightforward search interface. We also assume they are able to handle the resulting CSV (*define*) files themselves.

**Dependencies**

The only dependencies for this project are as follows. The users continue to classify the images and upload new ones, without this the client has nothing to gather data from. The client has enough web hosting space to cope with an increasingly large data base.

**Constraints**

The main constraint on this project is time. With a deadline in March there is only a short amount of time to get the system up and running. Due to this constraint some of the less core features may have to be set aside. So long as a working system is set up the project will have been successful. However some of the other features would greatly enhance the usability and user friendliness of the system so are well worth trying to implement if enough time is allocated.