**Physical Limitations of the program**

**There are always limiting factors with any project and there were with the project.**

**Java Portion:**

**What Limitation is it?**

**Android Software backwards compatibility**

**Explanation**

**The program is limited to 4.0 of android as its lowest point of entry. About 15 - 25% of users still use lower versions of android which is a missed demograph for use with the app. Users still need backwards compatibility with software as there are still uses for older software and some apps are written in only one software version such as this app which will need to be maintained and updated when android version 5 becomes more used in another year.**

**Why is it a limitation?**

**This limits a huge potential market to a much smaller potential market**

**What Limitation is it?**

**Crashing of the app.**

**Explanation**

**All applications crash and it can happen regularly if the app is in an alpha state or a beta state. The app sends data to a database and does not have resume function if the crash interrupts data sending or data downloading.**

**Why is it a limitation?**

**Crashing interrupts everything and you have to restart the app again which can become annoying if you have to do it more than once.**

**What Limitation is it?**

**The gps data function can be corrupted.**

**Explanation**

**The location features may not work if the location function suddenly turns off say to conserve power if the phone is running out of battery. The location data is lost and it can result in corrupt data being sent to the server.**

**Why is it a limitation?**

**The location data is an important part of the application and is required for sending the location in a specific reserve.**

**What Limitation is it?**

**The contact details section can have rubbish enter into the boxes.**

**Explanation**

**The user could input characters such as "[:, }:<" for name and input anything for the email section. This could be used to enter bad data by some users to be a nuisance.**

**Why is it a limitation?**

**The user can intentionally play pranks and use the contact details portion of the app to troll and disrupt the data sent.**

**What Limitation is it?**

**The app speed depends on the phone processor.**

**Explanation**

**You have 5 streaming apps open and then you run the plant species application and it then crashes due to a memory leak or runs slowly due to a bad processor. You have to many apps open and this is a limitation if you are using a very bad phone because it makes the app run slow.**

**Why is it a limitation?**

**The app speed relies solely on memory and processor capabilities and if the user has a nokia running android 4.4 then they cannot use the app correctly.**