

Functional Requirements

User Functional Requirements:

Nb: specimen - plant, soil or other type of vegetation.

1. The user shall be able to create an account.
2. The user shall be able to log into an existing account.
3. The user shall be able to upload a picture of the specimen to be analysed.
4. The user shall be able to search the database for specific diseases, treatments and medications for a specific specimen.
5. The user shall be able to get further help from a professional when needed.

System Functional Requirements:

1. The system shall allow the user to create an account whereby providing an email address, contact number and a password.
2. The system shall allow the user to log into the system whereby providing their email address and password.
3. The system shall allow the user to update their password and contact information.
4. The system shall allow the user to take a picture using the device's inbuilt camera and upload it to be analysed.
5. The system will send a confirmation email to the user once a picture has been uploaded.
6. The system will email a detailed report to the user describing the type of disease, severity of the disease, possible treatments and where medication can be found.
7. The system will allow the user to query for information from the database which returns results based on popularity and alphabetical order.
8. The system shall be able to search the database by using the kill it software for data on a specific specimen.
9. The system shall allow the user to be able to upload a picture of a specimen to the kill it software which will then analyse the picture to give a response on whether or not there is information available in the database.
10. The system shall allow a user to be able to get additional help from a professional when a query to the database returns unsatisfactory results.
11. The system shall allow a user to be able to create a new account by entering a username using their email address and password.