Skills and Resources Audit

1. Project overview

The object is to develop a database/central repository to house data collected and allow it to be accessible by others. The final product will be a user-friendly web-based application with many required features.

1. Skills and resources required for all team members

***Agile Web development***: Lecture slides provided in MS Teams group chat for team members who hasn’t passed CITS3403

***Python***: All team members possess the ability to code it python

***GitHub***:<https://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1004668> and <https://www.youtube.com/watch?v=DVRQoVRzMIY> for basic skills to use GitHub for version control, with <https://echo360.net.au/lesson/G_7dc833fb-32c8-41cd-bc47-7c09df50e57f_6f88a66e-7802-455c-bc7c-baea711f47fe_2022-08-10T12:58:00.000_2022-08-10T13:52:00.000/classroom> the lecture “How to Git Good: Experience from the Industry” in Wed. 10th August

***General***: <https://teaching.csse.uwa.edu.au/units/CITS3200/resources.html>

1. Skills and resources required for different roles

*Roles and their corresponding skills and resources requirements may change in future, one may have more than one role, different roles may have same skills and resources requirements at some stage*

***Front-end developers***: Sarthak Shukla, Yu Li

Have experience in front-end. Use **Jinja**, **HTML**, **CSS**, **JavaScript** to develop front end <https://frontendmasters.com/guides/front-end-handbook/2018/learning/html-css.html> for some basic skills about HTML and CSS

***Back-end developers***: Patton Tinapple, Qichong Huang

Have experience in back-end. Use **Django** to develop back-end <https://www.youtube.com/watch?v=Z4D3M-NSN58&list=PLzMcBGfZo4-kQkZp-j9PNyKq7Yw5VYjq9> for basic skills in Django, <https://betterprogramming.pub/how-to-upload-files-and-images-in-your-django-application-f4d086890e53> for possible ways to upload files using Django

***Database developers***: Dempsey Thompson

Have experience in database. Use **SQL** or **MySQL** to develop a database.

<https://www.youtube.com/watch?v=UxTwFMZ4r5k> for creating SQLite3 database

with Django

***Tester***: James He

Using **Selenium** for testing, <https://www.youtube.com/watch?v=Xjv1sY630Uc> for

basic skills of Python Selenium web testing