

Test Plan

Level 3: Unit testing

- Test each function separately to make sure that they each do what they should do
- Run with proper parameters to ensure proper outputs
- Run with improper parameters to ensure input errors are caught

Techniques: White Box Testing, -ility Testing

Environments: Python (Pytest)

Responsibility: Jeffrey, Michael, Alina, Rango

Level 2: Integration testing:

- Run program as a single application to test that the different units can be integrated together
- Run with proper parameters to ensure proper outputs and the user can progress through the application
- Run with improper parameters to ensure input errors are caught and user is sent to proper page

Techniques: White Box Testing, -ility Testing, Regression Testing

Environments: Python (Pytest)

Responsibility: Jeffrey, Michael, Alina, Rango

Level 1: System testing

- Test the application to ensure that the functional specifications are met at every step of the application until completion

Techniques: Black Box Testing, Failure Testing

Environments: Python (Pytest)

Responsibility: Rango

Level 0: Acceptance testing

- Have other group members run through the different features of the application as a whole and validate that everything is in working order

Techniques: Black Box Testing

Environments: Python (Pytest)

Responsibility: Person who commissioned the code (Prof/TA???) tests the application to check if the application is acceptable to the requirements they laid out

Budget Management: With the 2000 action minutes available, we should spend 500 minutes on Level 3, 750 minutes on level 2, 250 minutes on level 1 and 250 minutes on level 0. This will allow us 250 minutes in case we need more time in a certain level of testing.