

Test Plan

Unit test

We will be using a unit test module so called PyUnit to test each developed function. We will define our own class derived from unit test and then we fill it with functions that start with “test_”. We will eventually put under the file and run the tests by placing unittest.main().

Integration Testing

After we have finished performed the unit testing, the next step we were doing was integration testing.

No	Test Case Objective	Test Case description	Expected Result	Pass/Fail
1	Check the interface link between the login module	Enter GitHub login credentials. Username and password of the GitHub.	Able to login successfully	
2	Check the result extracting from the GitHub	User input value and click the submit button.	Able to link with the GitHub API	
3			Able to extract the project ID	
4			Able to extract the project name	
5			Able to extract URL from README	
6			Able to extract picture URL from README	
7			Able to extract section heading from README	
8	Check the fetching process	User input value and click the submit button	The console/back-end should show the fetching process of the README file.	

System Testing

Test Case ID: TS01

Test Suite Name: User input value

Requirement: User should be able to fetch the corresponding README file and aggregate the section heading, picture URL, and URL based on the user input data.

How to test: Key in any value in the user input text field and click submit button.

No	Test Data	Expected Result	Actual Result	Pass/Fail
1	Positive integer	Able to show the result in table form (Each project)		
2		Able to fetch README from GitHub		
3		The number of list should match with the user input data		
4		Project Name should have		
5		README URL should have		
6		README picture URL should have		
7		Section heading should have		
8		Able to show the result in table form (Title extracted)		
9		Able to sum up correctly for all the section heading		
10		Able to show the number of empty file		
11		The project name should be in hyperlink form. It should be able to open a new page and should the corresponding project		
12		The URL should be in hyperlink form. It should be able to show the description about extracted URL from the README file.		
13	Zero	Nothing will happen		
14	Any negative integer	Restricted user key in		
15	Non-numeric value	Prompt user error		
16	Decimal number	Nothing will happen		

Acceptance Testing

User Acceptance Test is conducting by our client from time-to-time. We have allowed our client to test our system whenever there is any minor changes. The client will always check the result of output based on the user input value. The future user acceptance test will be tested in the live production by the clients.