Test Approach for website – [https://buggy.justtestit.org](https://buggy.justtestit.org/)

Prepared For Westpac

Prepared By Prabhu Lakshmanan

1. **Introduction**

Web application testing usually consists of multiple steps that ensure that an application is fully functional and runs smoothly and securely. It’s a complete testing of web-based applications before making live.

1. **Test Approach**

This Test Approach document is derived from the Requirements and Functionality of website – [https://buggy.justtestit.org](https://buggy.justtestit.org/). This document defines the overall test approach to be taken for this website.

This test approach document describes the appropriate strategies, process, workflows and methodologies used to execute and manage testing of this website.

* 1. **Functional Testing**

The first step of web testing ensures that the functions of a system are tested. As the name implies, the overall functionality of the website must be tested. This includes testing all outgoing links from the website, testing all the internal links and testing links that point to the same page. The main objective is to find any broken links, non-existent pages or orphan pages - pages that do not have any parent pages.

* 1. **Compatibility Testing**

Compatibility testing is performed based on the context of the application.

* Browser compatibility
* Operating system compatibility
* Mobile browsing compatibility
  1. **Performance Testing**

Performed to verify the server response time and throughput under various load conditions.

* **Load testing** - It is the simplest form of testing conducted to understand the behavior of the system under a specific load. Load testing will result in measuring important business critical transactions and load on the database, application server, etc. are also monitored.
* **Stress testing** -It is performed to find the upper limit capacity of the system and also to determine how the system performs if the current load goes well above the expected maximum.
  1. **Interface Testing**

Performed to verify the interface and the dataflow from one system to other.

* 1. **Usability Testing**

Usability goes beyond functionality testing and combines testing for functionality as well as overall user experience.

* 1. **Security Testing**

The final step of web application testing makes sure that your application is protected against unauthorized access and harmful actions through viruses or other malicious software.

1. **Wrapping it up**

These are six steps of web application testing. If you follow these steps thoroughly before rolling out your application, it should go a long way in finding any bugs and errors and enable you to fix them before it’s too late.

**CONCLUSION**

As part of this project, we are going to do Functional Testing. Functional testing happens in the source code, where the system is tested against functional requirements and specifications.

In testing the functionality of this website, the following should be tested:

1. Test all links in your webpages are working correctly. Links to be checked will include-

* Internal Links
* External Links

1. Test Forms are working as expected. This will include-

* If a user does not fill a mandatory field in a form an error message is shown.
* Check default values are being populated
* Images are displaying properly.
* Pagination Works correctly.

1. Test business workflow. This will include-

* Testing your end - to - end workflow / business scenarios which takes the user through a series of webpages to complete.
* Test negative scenarios as well, such that when a user executes an unexpected step, appropriate error message or help is shown in your web application.