**Fit Kids Games**

1. **Integration Testing**

* To ensure components being integrated on our website based on the requirements work and interact as they should, a series of test were performed.
  1. Web development tools setup testing:
  + After acquiring a domain name from Hostgator and the using Wordpress as a platform to build our website, we build the first draft of our website and tested if it was getting linked to the database correctly.
  + Result: Test passed. A database was automatically created and was linking to the website.
  + Corrective Action: None.
  1. Website page setup testing:
  + After creating the first draft of our website, few pages were created and tested together to see how easily we can go from one page to the other, and how easily customizable they will be, and it will be compatible with mobile friendly modes.
  + Result: Original test failed because although it was easy to navigate from one page to the other, and were mobile compatible, the pages were not easily customizable based on the template that were selected.
  + Corrective Action: Elementor editor plugin was added to facilitate customization.
  1. Donation feature testing:
  + In order for the website to accept donation, a stripe (payment API) plugin was added to the website. Tests were performed to check whether the donation page was easily accessible from every page, whether payments were accepted, and whether a thank you note will be generated.
  + Result: Test passed.
  + Corrective Action: None.
  1. Ads feature testing:
  + In order for the website to display ads, ads plugins were added and tested.
  + Result: Test Failed. Google AdSense plugin was originally added to the website, but we were unable to setup a google sense account and therefore unable to get the site keys.
  + Corrective Action: A new plugin called corner ad was added.
  1. Accounts and database testing:
  + In order to for users to be able to create accounts on the website and so they can be authenticated, we added a plugin called Ultimate Member to manage those accounts. After specifying each member roles and fields to fill out, we created a test member to check whether it can perform the roles and modify fields specific to that member. We also tested out whether the database collected information from members.
  + Result: Failed. Although the test member was successfully created and is able to perform the roles assigned to it, the fields specified for each member failed to link up to the database.
  + Corrective Action: We are still researching how to will ensure the fields specified for each member will be mapped to the database.
  1. Games testing:
  + In order to meet the requirements for the website, we tried to find games that are easily customizable and from in which the player input and output data can be collected, and then add them to the website.
  + Results: Failed. We were unable to put together games that we can easily customize.
  + Corrective Action: We had to add a game plugin in order to have a game on the website.
  1. Security features testing:
  + In order for the website to meet security features, we added and tested various features such as account username, passwords, password hashing, reCaptcha, and secure website(https).
  + Result: Failed. Although the account users are able to login through user name and password, we were unable to add have the account protected from spams through reCaptcha. Also, the site was originally not secured.
  + Corrective Action: A different plugin for reCaptcha was installed. Also, we contacted hostgator help make the site secured as this was part of the package that we bought from them.

1. **Regression Testing:**

* After integration testing was performed, we proceeded with regression test to ensure that the changes that we implemented were working as it should and did not introduce new issues. We prioritized the testing according to the component that failed in the integration test phases.
  1. Website setup retesting:
  + Since original WordPress template selected was not easily customizable, we used a different editor called Elementor and tested it.
  + Result: Failed. Although Elementor enabled us to edit the pages, it proved to be more difficult to customize. Also, the display from desktop to mobile was not compatible.
  + Corrective Action: We reverted to using WordPress original editor and have been learning how to better use it’s customization features.
  1. Ads feature retesting:
  + Since a new ad plugin, Corner Ad, was added to the website, we tested it to check whether it will work better than the original one.
  + Result: Failed. This ad plugin only works in the pro of WordPress, but we have the basic version.
  + Corrective Action: We are trying to find other ad plugins that might work. Otherwise, we will have to get the pro-version of WordPress to support the ads.
  1. Game retesting:
  + Since we added the game through a plugin, we retested the game to see if it will allow and collect user input and output data.
  + Result: Failed. Although we can easily play the game, we are unable to collect user input or output from it since it is hard-coded.
  + Corrective Action: We are looking for ways to get to the source code of the game to see if we can customize it. Otherwise, we will need to look for other games that are more adaptable.
  1. Security features:
  + Since the website was not properly secured and the reCaptcha originally installed weren’t’ responding properly, a different reCaptcha plugin was installed and retested. So was the secure website feature.
  + Results: Passed. The site is now showing as a secure (https) website and the reCaptcha is working.
  + Corrective Action: None.

1. **System Testing:**

* After the integration and regression testing were done, testing all the operational features of our website and they all worked as expected. The recommendation will be to keep working on those features which did not pass the previous test phases until the website meets all the requirements of the client.