Failing to resolve unit testing functions.

Functions not running as they should.

Errors with running Docker.

Site not appearing.

Site being non functional.

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| --- | --- | --- |
| Risk Item | Probability | Impact |
| Unit testing | L | M |
| Failing functions | M | H |
| Docker errors | H | H |
| Site not appearing | M | L |
| Non functional site | L | M |

Every website should have unit testing to ensure that you can test all functions in your website for functionality, doing the red, green, refactor can save time with the coding process later. Sometimes our functions do not run the way we would anticipate that they should, in which case we need to dive deeper into what we are using, what it does, and why we choose to use that item, from there we can refactor our function to meet our requirements. Docker is a great resource to use, that has an easier user interface. While working with docker can be straight forward docker does not always play nicely with a windows computer. Often giving errors where everything is set up correctly. Sometimes our site does not appear as it should or does not function when it should. These items both should be tracked from simple issues to larger issues starting with how the files are being called or connected. Most often the error is within that scope, however not always. Using console.log or print statements can assist us in seeing where things are going wrong.

For setting up contingency plans most articles presented in possible issues are straightforward to fixing and usually do not require a contingency plan but rather research and understanding. Docker would be a high-ticket item requiring a contingency plan, which from what I know can come down to different deployment options. For the trigger point I would personally suggest when closing in on a due date, or if the date is far enough away but all resources have been expended to attempt to get Docker working, that would be the trigger point.

Being sure to accurately gauge the amount of time needed to complete and run all tests on your webpage is highly important to meeting the deadlines for your company and client. While sometimes those deadlines can be extended its always best to try and ensure you have prepared for any possible issues that may arise, that also goes along with ensuring you have the resources needed to not only complete the project but also to work with or around any errors that were foreseeable or otherwise. Technology does not always work out the way we expect, therefore planning for errors that may arise and ensuring you have all the resources necessary to overcome any errors is of the utmost importance.