**Maintenance**

One of the main concerns of the development team after the application is fully launched is the subject of maintaining the application. Maintenance, as it applies to this specific instance, would be modifications and updates applied to the application to keep it up-to-date and tuned to the ever-changing world of technology and the environment it is operating in, this case being a web environment. In other words, we mainly concerning ourselves with **Adaptive Maintenance**. **[1].**

The development team had multiple discussions as to why an Adaptative approach would be best and our reasoning as to the importance of Adaptive Maintenance is as follows: The software ecosystem, especially those concerning web applications is in a constant state of flux. Regular maintenance is required to adapt to these never-ending changes. Whether it changes in work patterns of staff, software platforms, compilers, updating the hardware (servers, desktop machines, etc), they all affect the functionality of the application **[2]**. To ensure that the maintenance goes as smoothly as possible, we intend to do the following:

1. Study the current landscape in which the application operations for any sign of changes.
2. Analyze any changes to obtain a thorough understanding of their direction and timeline.
3. Deduce how our customer base will be affected at predictable points in the future or if they are being affected now. **[3]**

The most likely cause of maintenance would be updates to the web browser the application operates in. For example, say that our team discovers that the latest version of Google Chrome, Firefox or Safari released in developer-only beta is/will be incompatible with the current build of the application. Looking at the trend of releases in the past, we will know that within the span of a few months since the beta's release, our application will be incompatible with the latest versions of these web browsers when they go live. Thus we can work on updating our website to work with these new versions instead of waiting until they are released, customers run into issues, they complain and we have to spend extra time and resources performing Corrective Maintenance to develop a patch to solve these issues **[3]**.

[1] <https://www.tutorialspoint.com/software_engineering/software_maintenance_overview.htm>

[2] <https://www.optimusinfo.com/blog/5-reasons-why-software-maintenance-is-a-must>

[3] <https://www.coderhood.com/software-maintenance-understanding-the-4-types/>