**Progress Report 4**

**Name:** Fred

**Internship Organization:** Slate Rock and Gravel Company

**Mentors:** Mr. Slate and Barney Rubble

# Dates of 2-Weeks Period Covered: 11/01/1020 – 11/05/1020

**Tasks 1 and 2: Complete**

**Current Tasks:**

**Task 3.1:** Modified the application’s layout.

The application’s layout was modified. It now includes an editable cell to write the introduction and the disclaimer of the website. In addition, the number of buttons needed to submit the user’s input was reduced to one.

# Status: Complete

**Task 3.2:** Precomputed the summaries.

The summaries of the reviews were precomputed to reduce the computation time and the memory overload of the application. The application now reads the summaries from the database. This change makes the application more stable and improves the user’s experience with the application.

**Status:** Complete

**Task 3.3:** Build an RSS feed.

The Streamlit library does not support this feature. Flask is a more flexible library but cannot be combined with Streamlit because they use different frontends (Streamlit only works with Tornado). Consequently, other options were considered to distribute content. Wordpress was selected over Square Space because it has a prebuilt RSS feature and can be used for storing and distributing content.

**Status:** In progress

# Task 4.1: Expand reviews to the database

# The database now includes reviews about gaming laptops, MacBook alternatives, laptops for students/college and laptops for work/productivity. The products’ affiliate links and prices were also included in the database.

**Status:** Complete

**Outcomes:**

1. The application can be run in a demo without crashing.
2. The application’s layout allows the editor to modify the introduction and disclaimer.

**Takeaways/Lessons Learned:**

* Precomputing the summaries reduces the memory overload of the application.
* Streamlit does not have the capability to support an RSS feed.
* Flask is a more flexible library but cannot be combined with Streamlit because they use different frontends.

**Risk to project:**

Streamlit does not have the capability to support an RSS feed. This creates a problem for the distribution of the content to the firm’s clients.

*Strategy:*

1. Migrate the application to Flask.
2. Use Wordpress for the distribution and storage of content.

The free trial of “Streamlit for Teams” expires on November 17. Users will not have access to the application after that date.

*Strategy:*

1. Migrate the application to another server.
2. Upload the application to a different Github account and apply for a new “Streamlit for Teams” free trial.

# Week-Plan:

* Task 4.2 Develop the documentation of the web application.
* Task 5 Export the application’s output to a word document.
* Task 6 Ensure appropriate application code documentation.