**Name:** Nathan Johnson  
**Student ID:** 923721692  
**GitHub Username:** Natty2027  
**Assignment Number:** 3

**CSC 317 Assignment Final Submission**

**Name:** Nathan Johnson  
**Student ID:** 923721692  
**GitHub Username:** Natty2027

**Analysis**

We made the budget calculator in order for people to have some kind of interactive and easy way to instantly keep track of their finances. When you enter a transaction, you just choose whether it’s an income or an expense, enter the amount, select a category (say, “Groceries” or “Salary”), and pick a date. You watch the totals being recalculated in real time instead of finding out after you press the “=” button that you are in the red for this month, with separate subtotals for income and expenses easily visible at a glance. To make finding past entries easy, We also incorporated a filter panel: You can switch between income, expenses or see everything at once, and you can also search by category to drill down on specific spending habits. Under the hood, I employed CSS variables to maintain consistent spacing and color cues (green borders for income, red for expenses), and a CSS grid layout to ensure the input form, filter controls and transaction list rearrange gracefully on narrower screens. In this project we wanted to aim for an easy to use and self-explanatory product. We did however struggle with the backend integration, and ensuring the features all work together after many night of work we ended up with the product we aimed for.