Rahif Haffeez - Mini Project 1 Reflection - February 4th, 2025

In this project, me along with my 4 group members, Aaron Vinodbhai Christian, Johnathan Lavoie, Mele Felix, and Vincenzo Langone were tasked with the creation of an expense tracker application. This first mini-project highlights the importance of structure and design in software development. Structure and design when programming is important, as it makes the readability and clarity of the code much easier, makes scaling and maintaining a project easier, helps with testing, can help with optimisation, and helps your team (if it is a team-based project). Some examples of making code clear is by having consistent styles and naming conventions, modularization, which is breaking down code into reusable modules or functions, and providing any comments and documentation to help explain functions, classes, and other bits of code. The first day was used to plan the project, we had determined using languages such as HTML, CSS, JavaScript for the front-end, PHP for the back-end and SQL for the storage, but then realised that we don't really have enough time to code this and ended up coding with C++ anyways using CSV files for our storage. Though, the plan was considered to be good for the most part, as it was pretty straight forward with the chosen technologies and small amount of details on why we picked what technologies, though it was commented on that we could have put more detail into our explanations, we also had missed a section. The second day was spent coding the main functionalities, which we got down pretty well. Though our code functioned well, the problem was that the code was hard to understand nor was it really documented well with only a few comments here and there. The third day was spent on working on the feedback we got, and working on the other optional features. What I've learnt personally is to focus a bit more on the structure of the code and also to look over the rubric when submitting as we tend to forget some things.