|  |  |  |
| --- | --- | --- |
| **Date** | **Time** | **Task** |
| 4/16/18 | 2.5 | Updated P4 Design Doc to latest specs |
| 4/16/2020 | 2 | Changed Calc functions to use pass by reference to handle all calculations for each item |
| 4/17/2020 | 5 | Refactored code according to project specs |
| 4/18/2020 | 1 | Added new Calc functions to further remove code from the body of main |
| 4/18/2020 | 2 | Added new function GenerateReport to remove a ton of code from the body of main and looped it using do while |
| 4/18/2020 | 1.5 | Added new utility functions to print welcome and exit messages |
| 4/19/2020 | 2.5 | Finished input validation |
| 4/19/2020 | 1 | Rearranging structure chart |
| 4/19/2020 | 5 | Fully updated P5 Design Doc |
|  |  |  |
|  |  |  |
| Total | 7.75 hrs |  |

Summary of program experience:

I actually found it easier to begin refactoring the code first, this time around. I had trouble with validation. Experimental things like ASCII art with ifstream. Using pass by reference is a nice way to use void functions to calculate and update variables outside of their scope. I had some trouble with input validation, especially with comments after.