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| **Project Title:** Program testing with AutoIt | |
| **Start Date:** 1/13/2020 | **End Date:** 4/30/2020 |
| **Team Members:** Austin Tarver | |
| **Project Sponsor:** | |
| **Customer:** CS Students, CS Professors | |
| **Users:** CS Students, CS Professors | |
| **Purpose (Problem or opportunity addressed by the project)**: it can be tedious to enter all the inputs to test or grade CS2014 assignments. I will be using AutoIt to create scripts to automate this process | |
| **Goals and Objectives**: To make the testing and grading of CS2014 assignments as efficient as possible | |
| **Schedule Information (Major milestones and deliverables)**:   * Jan 30: complete requirements gathering for project * Feb 12: open and close program using AutoIt * Feb 20: perform test on first C++ script using AutoIt * Feb 27: Decide on more scripts to test/ build diagrams using LucidChart * Mar 12: Create tests for other C++ scripts using AutoIt * Mar 11-31: Further automate testing? (add loop/loops to code to test multiple C++ scripts) * Apr 7: Apply changes/ recommendations to project * Apr 10-28: refine project and get it ready for presentation * Apr 28–End: Create capstone presentation | |
| **Financial Information (Cost estimate and budget information)**: No cost, AutoIt is a free software | |
| **Approach:** Use AutoIt to create an environment to test CS2014 programs | |
| **Constraints:** must be user friendly, it is meant to make the testing and grading efficient and simple. | |
| **Assumptions:** that students and/or professors actually see a need for this software | |
| **Success Criteria:** the AutoIt scripts will accurately test a CS2014 program, and give feedback to the user | |
| **Scope**: AutoIT will be used to create the testing software | |
| **Risks and obstacles to success:** I have never used AutoIt, so that could be an obstacle | |
| **Project Priorities and degrees of freedom:** The software must take inputs from the user, enter those inputs to the program automatically, run and test the program, then give the user feedback on whether their program was successful. | |