

CS 4310 Software Engineering I

Student Project Proposal

Team: Beta

I. Project Overview

One of the biggest problems nowadays is that children, when unsupervised, will spend way too much time in front of the computer playing video games or mindlessly watching YouTube. Team Beta plans on designing and making a tool that parents can use to monitor and restrict their children's computer usage. Given the planned Operating System independence, browser plug-ins and various UIs and notification systems, members will have more than enough opportunity to contribute code to attain the goal. We plan on using Java.

II. Main Features

1. Cross platform MacOS and Windows.
2. Multiple profiles for multiple children using the same computer.
3. Text and email based notifications for parents.
4. A "Time will run out soon" warning, allowing the child to save whatever they are doing.
5. Browser plug-ins to allow for parents to monitor/restrict the websites the children are accessing.
6. Allow the child to request more time.
7. Allow the option to allow the child to earn more time by solving math/english/coding/etc questions.
8. Log/provide statistics on child's computer usage.
9. Inactivity monitor that pauses the timer if inactivity is detected.
10. Restrict usage on a per application basis.
11. Restrict certain website by domain (whitelist / blacklist functionality)
12. Put time limit on certain website.
13. Force quit/ Force log off, if a child tries to use application/program longer than the allotted time.
14. Keylogger.
15. A mobile app to allow parents to interface with their child's computer more natively.

16. Keep program running in background and prevent child from being able to close it (alert parent if program stops running / crashes)
17. Have different modes: Fun mode vs Work mode
18. Run program as a service.

III. Team Members and Tentative Roles

Raymond Burke - QA, coder (Apple)
Alexis Lara - coder, documentation
Vincent Mark Mariano - coder, testing (Windows)
Jeffrey McClain - coder, testing (Windows)
Patryk Skowronski-Stec - coder, Version Control

IV. Plans for Collaboration

For source control Team Beta will use Bitbucket and TortoiseHG to manage code, Google Docs, with built in version control, for document collaboration. We will use Facebook Messenger for communication and will be meeting before or after class times and any other pre scheduled meeting time to further progress on our project.