**CIS 285: Software Engineering Tools**

**University of Michigan – Dearborn**

**Lab 1 and 2**

**Simple Software Development Project Plan**

Assigned: Thursday 1/17

Due Date: Thursday 1/24 – Submission is due by 3:45pm on Canvas

This laboratory exercise requires you to develop the project plan for the software system described below. You must use the Microsoft Project this exercise.

Specific tasks required:

* A Microsoft Project Plan (.mpp). Plan a 3-month project using today as the project starting date. Your total budget is $1M. You can use ‘Software Development’ template as a reference.
* Explore the following views, provide screen shot of each and describe its applicability.
  + Resource sheet
  + Task Usage of a specific task
  + Calendar of each month
  + Network Diagram with the discussion of critical path.
* Generate 4 -5 reports, one of them must contain the total cost.

You are to submit your report on Canvas as a zip file, which should include (1) Microsoft Project file (.mpp) (2) a report document (either PDF[[1]](#footnote-1) or MS Word) that includes a description and screenshot of view and report.

Customer’s description of desired software:

Customer asked you to develop a parent control software ‘E-Guard’ that monitors, blocks and controls internet usage in real time. The E-Guard is a standalone software that can be run in MS Windows, Linux and Mac operating system with the following functions/features.

* The E-Guard shall allow parents to check web activity, keystroke, chat, email, IM and launched application.
* The E-Guard shall keep a local DB of unhealthy websites and synchronize the DB with the remote server in a daily basis. (note: Remote server is maintained by a 3rd party service vendor who publishes and updates unhealthy websites. It is their responsibility to create and maintain the remote server. Your job is to copy its DB to your local drive in a daily basis)
* The E-Guard shall block unhealthy websites
* The E-Guard shall remove unhealthy words from search engine (note: it is 3rd party’s responsibility to create and maintain common unhealthy keywords)
* Once a suspicious activity is identified, the E-Guard shall take snapshoot of the screen and notify parents by email and text message. The suspicious activities include trying to browse unhealthy websites, nasty words appear in email/chat/IM or typing blocked keywords in search engine.
* The E-Guard shall allow parents to configure the setting. The setting includes, blacklist, whitelist, blocked keyword, internet time control, categories to be blocked (it is 3rd parth’s responsibility to create and maintain the website categories), etc
* Only authorized users have access to the configuration and uninstall.

1. [↑](#footnote-ref-1)