CSC 330 Homework Assignment 1

Due on 09/29/2017 11:59pm

1. For the three projects you are going to bid, which software process model(s) in your mind is the best fit for each of the project. Please justify your choices.

For the music player application, the best process model would be the evolutionary model. Compared to the waterfall model, the evolutionary model would have some basic functions working to display proof of concept to the client, while the waterfall model would instead require that all parts of the application be completed and fledged-out before delivery to the client. In this latter case, the client would not be able to provide feedback nor would developers be able to fix bugs that arise outside of the development environment. Another benefit of the evolutionary model for the music player is that the features users or clients may desire could easily be factored into the final design after they gain some understanding of the initial builds. This vital interaction could steer the application in a completely new direction sooner than plan-driven models, saving money early on or differentiating a product.

In the case of the learning management system (LMS), I would argue that the spiral model is a great fit. A LMS would require high security and high fail-safe properties, but could also benefit from the iterative parts of the spiral model in the way of slowly introducing parts of the system to a school which has rest periods between course offerings. A process model that is quicker like the agile method would be too quick in my opinion, and could introduce critical gaps in the capabilities of the system or failure points that a slower model would otherwise have addressed.

The Snake game application could likely benefit from an agile process model, as the market for games is crowded. Constantly receiving feedback from users would help in developing features that retain the users’ attention. Slower models would be cause for larger user turnover. This could also quickly fix bugs that arise after release.

1. As a client representative, you are asked to participate the agile development process. Please develop your own “user story” cards for your developers.

* About
  + Users can recognize our gym/brand on the site
  + Users can easily find information about the gym address and the times we’re open
  + User can easily see class schedules and holiday closures
* Members
  + Users can see the various membership tiers and their respective prices, each with “Join now!” buttons
  + After clicking “Join now!” users are able to input necessary information into an online form
  + A user can save an incomplete form for later completion
  + Users with incomplete forms can receive an email reminding them about their attempt to sign up
  + Users feel their information is kept safe
  + A user can reset their login information with proper credentials
* Staff
  + Gym staff can retrieve client information from a database
* Other
  + Users are motivated each time they visit the site with before-and-after photos, as well as a quote