**CS 480 Senior Project Proposal**

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2/4/13

Project Description

The project will be a project management website. A user will be able to create a project, add epics to each project, and then add tasks under each epic. This will keep track of a project for what has been done, and what still needs to be done. This will be used by programmers and the project manager. A programmer can ‘Start’ a task. Once the programmer has finished the task he marks it as ‘Complete’. Then the project manager can check to see if the task is behaving appropriately. He can then mark it as ‘Accepted’. Once all of the tasks for an epic are completed, that epic is completed. Once all of the epics are completed a project is done.

This will also help keep a sustainable pace for programmers. Each epic will have a point value for how hard each task will be. The higher the point the longer amount of time it will take the programmer. Each programmer will be expected to have a certain amount of points done each week. The project will have an expected velocity (number of total points done on the project) each week. That way it keeps the programmers honest, and yet does not set unrealistic goals by the project manager.

Example:

Project: Batman Velocity / Week = 10 points (Project should be done in 2.3 weeks)

Epic1: Create Bat Mobile

Task1: Sketch design = 5 points

Task2: Re Sketch Design = 5 points

Epic2: Find Side Kick

Task1: Put add in Paper = 2 points

Task2: Weed out Applicants = 10 points

Project Technologies

1. Rails
2. Ruby
3. Haml
4. Sass
5. Mongoid (Document based Database. Using Mongodb for the driver)
6. Rspec (Automated Testing)

Grading Scale

1. Login with Facebook = 3 points
2. Login with Google = 3 points
3. CRUD (Create, Edit, Update, Delete) multiple projects = 5 points
4. Multiple Users Can Be Added To A Project = 10 points
5. CRUD Epics = 5 points
6. CRUD Tasks = 5 points
7. Users that are on a project can write comments on a task. = 3 points
8. Tasks can be ‘Started’, ‘Completed’ , and ‘Accepted’ = 3 points
9. Hosted online = 5 points
10. Project Velocity = 10 points
11. Looks aesthetically pleasing = 5 points.

Total = 57 points

Grades with Point Value

A = 52

B = 40

C = 30

D = 20