Project Plan

Agile Process: Scrum

Why:
- Need to interact with the client frequently.
- Keep an updated project backlog with user stories that have estimated completion times and importance.
- We all did scrum all last year with Junior project.

Meeting Times:
1) Team Members: 3:25 pm (weekdays)
2) Client Meetings: 4:15 pm (Thursdays)
3) PM Meetings: 9:25 am (Wednesdays)

Backlog process:
1) Brainstorming with the client (initial)
2) Add new user stories, update backlog (every week)
   a) Ranking process
      i) Team members assign "work value" to an item
      ii) Client assigns the order / priority of the items
   b) Backlog is maintained on Trello
3) Assign tasks to individual team members
4) Complete tasks in order of rank

Sprint Duration: 2 Week Sprints with deliverables every 2 weeks and weekly meetings

Sprint Deliverables:
A working system should be submitted after each sprint, excepting the first few sprints where the project is taking off.

Testing Strategies
- Unit tests to test each feature and to be used for regression testing
  - test features as we go for each sprint
- GUI testing using tools such as selenium
- Usability studies twice a quarter

Risks

Risk	Elaboration	Priority 1 - 5
Misunderstanding of option trading	Could cause a design problem. Could develop a feature incorrectly if there's a misunderstanding with the actual trading system	3
Change in requirements	Features could be developed that are no longer needed, or need to be changed	4
Feature Creep	Desired features could be implemented very quickly, customer could then want more and more features	5
Bad communication with client	Had trouble in first few weeks, could turn into a bigger problem in future. If we get blocked and can't get ahold of the client, it could turn into a bigger issue.	1
Scheduling within team	Members have other clubs and teams to meet with so finding time to meet could be tough sometimes.	2
New to Technologies	Could make system hard to test and add to development time	2
Incorrect Feature Estimations	Could be hard to estimate timeline if we're new to a technology	4

Configuration Management Plan
- Version Control: Github
- All of our code will go under source control as well as documentation using the Github wiki for our repo
- Git Hooks will not be used on our project

Ensuring Quality Consistent Design
For this project we plan on keeping several up to date design documents throughout development. All of our design documents will be kept on our Github Wiki page, including class diagrams, database schemas, APIs used, living design document. Our design document could change throughout the course of the project, from how we're deal with data to the design of the user interface. All of these changes will stay up to date on the Github wiki.