Teamwork Plan

Stakeholders

List of stakeholders and their roles

- MIT students/faculty/community members
    - Post buy offers - state a price they would like to purchase an item
    - Post sell offers - state a price they would like to sell an item
    - Follow up with their exchange after a match is made on the app
    - Upvote or downvote other users honestly
- Us
    - Implement the application and fix any technical issues
    - Add features that are necessary or would be helpful
    - Test the application
    - Encourage other people to use it

Resources

List of computational, cost and time constraints

- Limited by server bandwidth/memory of host (OpenShift, scripts, etc.)
- Preferably spend no money on APIs
- Remaining time in 6.170 and/or willingness to continue project afterwards
- Limited by number of users who use our application

Tasks

List of tasks, expected effort, allocation to team members
Calendar of intermediate and final milestones for tasks

- Weekly mentor meetings (Complete as a team)
    - Agenda
    - Progress Report
    - Minutes
- 11/11/14 Design (Complete as a team)
    - Overview
        - Motivation
        - Context Diagram
    - Design Model
        - Concepts
        - Data Model

        - Behavior
            - Security Concerns
            - User Interface
- 11/18/14 MVP Implementation
    - Basic Coding
        - George, Jeffrey - Frontend MVC (Angular.js), UI, Design
            - Implementing log in and log out (passport.js)
            - UI for displaying items
        - Ami, Eunice - Backend, Security
            - Implementing log in and log out (passport.js)
            - Matching bids
            - Making bids
            - Create data model for users, bids, and transactions
    - Modularity
        - Code
        - Specifications
- 11/25/14 Revised design (Complete as a team)
    - Updated design doc, changes identified
    - Data design
    - Design challenges
- 12/2/14 Code, all parts (Complete as a team with specialization)
    - User reputation (upvote/downvote, preventing fake users and spamming)
    - Displaying user reputation
    - Transaction verification
    - Payment API
- 12/7/14 Final delivery of app (Complete as a team)
    - Final code version
    - Deploy app (in repo and URL in form)
    - Team work: reflection
        - Peer review
        - Evaluation
        - Lessons learned
- 12/8/14 Demo of deployed app at Project Fair

Risks

Enumeration of expected risks and their mitigations

- Lack of trust that a user will follow up after a sale has been made on the site
    - Use certificates or require @mit.edu email addresses
    - allow users to provide other user reviews and upvoting and downvoting other users
- Features such as product quality, user reputations, payment options becoming too complex

    - Limit our initial features to single product quality, only up/downvoting for users. Implement payment options (BitCoin) after all other features are implemented
- Races and inconsistencies for buyer and seller bid actions
    - Have single document in database for each bid with all status info
- Difficulties using MIT certificates
    - Use @mit.edu email address (send verification email?)
    - Use email verification library

Minimum viable product

Identification of minimum viable product for first release

- UI that enables users to make offers on items, and matches offers that succeed

Subset of concepts to be included

- Items, offers, transactions

Issues postponed (eg, security mitigations, user interface elements)

- Allows users to upvote/downvote other users to provide feedback
- User/transaction verification
- Payment API

Provides real value to users

- Creates a consolidated market for users

Provides opportunity for feedback

- Provide our email addresses so users can contact us to directly provide feedback
- Reputation gives users the chance to rate each other

On path to full product

- Yes