

## Group 1 Project Proposal

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### Web Application:

We will build a silent auction app that can be used by non-profits, charities, family reunions, etc., or by anyone who might require a silent auction.

### Features:

- Start out with a web site, expand to an Android app if time permits. Will use a NOSQL database (MongoDB or RethinkDB) and NodeJs backend. A relational DB if we decide that would work better.
- Use of Heroku for development.
- Lucidchart to model the database.
- Asana to manage goals.
- Github for version control.
- Log in system for returning auction participants. Will require all the code for creating profiles, changing profile elements, change passwords and email addresses securely. Save payment info and manage payment info. The log in system will also support SSO links for end user ease of access.
- When a user logs in they will see "Create auction" and "View auctions" options.
- View auctions will grab your geo-location and allow you to search within a radius (default at 25 miles). Any public auction or auction you are specifically a part of will show up in your list.
- Search auctions by keyword like "technology", "home made", etc. Each auction item can have keywords attached to help search.
- When creating a private auction, ability to add usernames or email addresses of participants to the private auction. Potentially have the ability to login to Facebook and add private Facebook groups to create a private auction based on the group.
- Join groups: for instance if your local church has an auction every 6 months, you don't have to recreate the participants list from scratch. Integration with existing social groups, like circles on Google Plus.

- Some auctions with a large number of items will need to have some organization, so the ability to group auction items within an auction is necessary. Ability to see multiple images of an auction item (similar to how you can see different angles when you shop on Amazon.com)..
- Able to view statistical information about user's own auction habits. (e.g. how much they spend on average).
- Anonymous comments on auctions. Comments with swear words can be cleaned, automatically deleted, or flagged for review.
- As an admin:
  - The ability to see the over-all statistics to help gauge where reworking the code is needed.
  - Delete auctions that have been flagged.
  - Delete comments that have been flagged.
- Different kinds of auctions or presets for the auction setup page.
- As a user, the ability to set a budget for the auction. For example, start the auction with \$500, bid on item 2 in the auction for \$49, have \$451 left in budget for the auction. Funds are returned when a user is outbid. User dashboard that shows remaining fund during an auction and pictures of what they bought.
- Charge user only when they actually win an auction, not when they bid.