

Object-Oriented Analysis and Design: Project Part 1

Team: Neil Nistler, Kade Cooper, Brennan McConnell, Patrick Andresen

Title: Neighbor

Description: Neighbor is a website designed to make the lives of its' users easier by providing a way to rent items to one another rather than buy them. The goal of this system is to crowdsource renting. We want to bring together a community which can provide desired items to each other for a short duration in which one user may have need of it while another user does not. In other words, the lack of such a system today forces users to only have the choice between eBay, Craigslist, or the shameless facebook post to purchase an item. In actuality a person may only need said item for a short duration, or another person is unwilling to part permanently with his/her possession. An example would be, a user has need of a mountain bike for a weekend trip and posts to the website. Another user can then view all requests in his local area and can send an offer to the requester of the bike with the option to rent for \$10 a day. An e-mail can be generated with the offer and be sent to the requester and he can then accept or decline. (Optional to have a payment system in place, as well as a temporary security deposit). Ultimately, it would be a great way to borrow used items as well as earn some additional cash if you want to rent some of your items out.

Platform/Environment: Website implemented with Parse API/Framework, BootStrap. Parse has MongoDB on its backend for our database.

| Programming Languages | Neil Nistler | Brennan McConnell | Kade Cooper | Patrick Andresen |
|-----------------------|--------------|-------------------|-------------|------------------|
| JavaScript | Proficient | Sufficient | Sufficient | Proficient |
| HTML/CSS | Proficient | Proficient | Proficient | Sufficient |

Functionality:

- Users sign up for accounts
- Users can post a request for an item
 - Rentees may specify a price they are willing to pay for rental and duration
 - Rentees may allow the renter to state the price asked
 - Negotiation between both parties may occur via the website in a simple and straightforward manner rather than a confusing and awkward text conversation
- Users can post items available for request
 - Renters may specify the price for the request
 - Renters may allow the Rentee to offer a price
 - Negotiation between both parties may occur. (As mentioned above)
- Renters may send an offer to a Rentees' Post

- Rentees may send an offer to a Renters' Post
- Posts will include helpful and necessary information including the following:
 - Posts will support functionality for pictures of item
 - Posts will have a description of the item
 - Posts will have a duration for rental use
 - Posts will have a price/range in prices
 - Posts will also have a security deposit stipulation should one party decide
- Upon sending an offer, a generated e-mail will be sent to the user prompting them for a response and informing them of the inquiry
- Excellent UI and UX

Stretch Functionality:

- Review system in place to inform other Rentees or Renters of the reliability and experience users can expect to experience from other particular users
- Payment system in place to handle all complicated meeting and exchanging of goods in a simple fashion which the website will take care of.

Link to GitHub: <https://github.com/Brennan-M/Neighbor>