

Redirected Furnishings Specification

1. Background and Problem Statement

When Barbara Portnoy closed her office, she had to get rid of all of her furniture. Being environmentally conscious, she didn't want to throw it away, but elected to donate it to local nonprofits. Over the next three months, she was able to donate furniture to seven different nonprofits in her area. However, this took a lot of reaching out via email and social media, and a lot of back and forth communication was required.

Barbara wants to build a website that makes it easier for businesses to list high-quality used furniture that they would like to donate and for nonprofits to find that furniture and get in contact with the donors.

2. Solution Overview

The proposed solution involves building a website that allows businesses to enter information about used furniture (including high res photos), along with their contact information. Upon approval, those pieces of furniture will be placed into a searchable catalog.

Nonprofits will be able to browse this catalog and find furniture that they like. To be able to actually take this furniture, a nonprofit will need to prove 501(c)(3) status. They will then be able to contact the businesses directly and arrange to pick up the furniture.

This document contains wireframes - these are just rough sketches put together by a non-designer, and are in no way meant to be considered final designs.

3. Technology Overview

This application will be implemented on top of either Ruby on Rails, Python/Django, or as a Wordpress Plugin in PHP. It does not need to be a single page application, but if the implementer wishes, it may use either React or Angular.

The application will use a SQL database for storing listings - either PostgreSQL or MySQL.

Furniture images will be stored in Amazon S3. Mail can be sent using a SAAS mail provider such as Sendgrid. It would be nice if the email templates can be modified without changing application code.

All application code will be stored in a Github Repository. The application will be hosted on Heroku (or another similar hosted platform).

4. Registration Process

Users will be able to register for a donor or recipient account on the site. They will enter the following fields:

Name	Data Type
Name	String
Email	String
Password/Password Confirmation	Hashed String
Organization Name	String
Account Type	Enumeration (Donor or Recipient - Admin is also possible but not at registration time)
Phone Number	String
Organization Address	String
Organization Address 2	String
City	String
State	String
ZIP	String

All information is required. When they submit the information, they will go through a verification process, which is detailed below.

Register for An Account

Name		
Email		
Password		
Password Confirmation		
Organization Name		
Organization Address		
Organization Address 2		
City	State	ZIP
Phone Number		
<input checked="" type="radio"/> Donor <input type="radio"/> Recipient		
Submit		

4.1 Recipient Verification

When the recipient registers, they will receive an email telling them to send an email to verification@redirectedfurnishings.org with a PDF of their 501 C3 IRS confirmation letter, as well as a written confirmation that they understand all product is offered for the exclusive use of their organization and will not be used otherwise or sold. An administrator will then receive an email, and will be able to view and activate their account.

Email Text For Recipient Verification Email

Subject: Thank you for registering for Redirected Furnishings

Dear {name},

Thank you for registering for Redirected Furnishings. We are excited to work with you. To activate your account and begin contacting donors, you will need to send the following items to verification@redirectedfurnishings.org

- 1) A PDF of your 501C3 IRS confirmation letter
- 2) A written statement that you understand all product is offered for the exclusive use of your organization, and will not be used otherwise or sold

As soon as we receive these items, we will activate your account

The Redirected Furnishings Team

Email Text For Recipient Activation Email

Subject: Your account is now active

Dear {name},

We have received your information and have activated your account. Please click [here](#) to login.

The Redirected Furnishings Team

4.2 Donor Verification

Upon registration, donors will receive an email asking them to verify their email address. When they click the link, they will be verified, and be able to login.

Email Text For Donor Activation Email

Subject: Thank you for registering for Redirected Furnishings

Dear {name},

We are excited that you have registered to donate furniture with Redirected Furnishings. Please click [here](#) to verify your account.

Thanks!

The Redirected Furnishings Team

4.3 Pre-Verification Experience

If a user has not yet had their account verified, they will not be able to login. When they try to login, they will receive an error message either saying that they need to verify their account or that their account is being reviewed.

5. Recipient Section

5.1 Logged out Experience

The default page in the application will be a list of the pieces of furniture that are available (not marked as claimed and not expired). When the recipient isn't logged in, this will show the following fields for each item:

Name	Data Type
Description (eg 'Red Aeron Chair')	String
Category (eg conference chair)	Enumeration (work desk, reception desk, work table, side table, conference table, side chair, task chair, conference chair, bookcase, lateral file cabinet, Storage cabinet, sofa, lounge chair, art, lamp, accessory)
Photos (thumbnails - can click into the photos to see larger images. A carousel would be nice)	Array of Files
Dimensions (length, width, height in inches)	Numbers
Location (city)	String
Available Until	Date (Defaults to 30 days)

Items can be sorted by Name, Category, and Location, and will be searchable by these fields as well. Since there may be a lot of listings, some sort of pagination or infinite scroll system will be required.

Welcome to Redirected Furnishings
Login

Item	Category	Photos	Dimensions	City	Contact Info
Chair	Office Chair	 	22"x3"x4"	Baltimore	Register...

5.2 Logged in Experience

When a recipient is logged in with an active account, they will be able to view contact information for the item, which is a text field. This will include the name, email, and phone number of the contact person on the donor side.

6. Donor Section

6.1 Donor Homepage

The donor homepage will list all items that are currently available and not expired. Donors will be able to edit the items and will be able to click on a button to mark an item as claimed or deleted.

There will also be a section that allows the donor to view expired/claimed items, and to reactivate expired items by adding a new expiration date.

6.1 Donor Listing Entry

Donors will be able to enter items that they would like to donate. This form will contain all item fields mentioned above. All fields will be required, except as follows:

- The expiration date will be automatically set to 30 days.
- The contact information for the most recently entered item will be saved in a preferences file and automatically populated.

When the donor submits an item, it will go into an approval queue for admin approval.

7. User Tools

Users will be able to edit their profile information at any time.

They will also be able to request a password reset from the login page. This will send them an email with a link that takes them to the password reset page (enter password/confirmation).

Email Text For Password Reset

Subject: Redirected Furnishings Password Reset

Dear {name},

We have received a request to reset your password on Redirected Furnishings. Please click [here](#) to set a new password.

If you did not make a request, please ignore this email.

The Redirected Furnishings Team

8. Administrative Tools

Administrative tools will allow Redirected Furnishings employees or volunteers to manage the site.

The first section will be the accounts section. At the top, it will allow admins to approve accounts created by nonprofits. The administrator will be able to approve or reject accounts. If an account is approved, an email will automatically be sent to the nonprofit. If it is rejected, the item will be marked as deleted.


Below that will be a section where admins can view and edit users. Admins can change the type of a user (to Admin, Recipient, or Donor).

There will also be an item approval queue that allows items to be approved/rejected one by one or en masse. Admins can make edits to listings before approving them. Rejected items will be marked as deleted.

There will also be a section that allows active listings to be viewed, edited, and marked as claimed.



Admin Add Item Hello Barbara

Approval Queue | [Active Items](#) | [Users](#)

Date Created ⚙	Item	Photos	Dimensions ⚙	Location ⚙	
2/9/18	Chair	 	22"x3"x4"	Baltimore	<button>Approve</button> <button>Reject</button> <button>Edit</button>

Admin Add Item Hello Barbara

[Approval Queue](#) | **Active Items** | [Users](#)

Expiration ⚙	Item	Photos	Dimensions	Location ⚙	
3/9/18	Chair	 	22"x3"x4"	Baltimore	<button>Edit</button> <button>Inactivate</button>

Admin

Add Item

Hello Barbara

Approval Queue | Active Items | **Users**

Donor Approval

Name	Email	Organization		
2/9/18	dana11235@gmail.com	DLPA	Edit	Approve Reject

All Users

Search Users

Name	Email	Organization	Account Type	
				Edit

Admins can also enter new items. They can associate an item with an existing account; the default will be that the item is associated with their account. Items entered by admins will not need to go through the approval queue.

Finally, there will be a section that lists high-level statistics. These include the number of items listed (month and total), the number of items claimed (month and total), and the number of users.

9. Potential Future Enhancements

One possible enhancement would be an automatic contact process. When a nonprofit user finds one more items that the nonprofit can use, he or she could select these items and press a button. The system would then send one or more automated emails to the donor and recipients.

10. Design Requirements

Before beginning development, we need to get a set of designs. This does not require every screen to have high fidelity designs, but does require the following:

- Login/Registration Pages
- Item entry form
- Item listing page
- User admin page
- Email Template (text forthcoming)

11. Revisions

1.0 - 3/13/18 - Initial Revision

1.1 - 3/14/18 - Minor schema changes; First revision of email bodies