**Good Extracts**

**Software Requirements Specification**

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# Summary - Functional Requirements

Core Functionality:

* **Create a private, secure account** with username and password
* **Build a personal profile** with a bio, pictures, preferences, stories etc.
* **Connect with three groups of other users** – your neighbors within 2km, local suburb (postcode based) and friends and family external to the first two
* **Create good or service (GOS) ‘offerings’** of items you are willing to either exchange for a ‘consideration’ (i.e. another GOS ) or give away for free – and make these offerings visible to your choice of connection group (neighbors, externals and/or suburb)
* **Create specific GOS ‘considerations’** of GOS items you and/or your family need, make these visible on your profile to connection groups
* **Initiate and manage manual GOS ‘exchanges’** by enabling a user to click on another user’s offering
* **Search for GOS listings** amongst your neighbors, wider community, friends and family

Additional Functionality

* **Choose what your profile looks like** depending on who is viewing – a neighbor, a suburb community member or external – or show the same for all
* **Initiate and manage auto GOS ‘exchanges’** by recognising when a user registers a particular consideration that matches the listing of another user, and suggest an exchange via notifications
* **Send and receive messages** to and from your various connections
* **Share an item** with your neighbors – can I borrow your….?
* **View your custom neighborhood page** with your neighbors, their listings + considerations, notice board and associated metrics
* **View your custom local suburb page** with your wider community, their listings + considerations, notice board
* **Post a notice** to your neighborhood page, your suburb page and/or externals page
* **Share stories with pictures** of recycling, upcycling, rotting with your connections, mini blog with selected audience then share more widely if you feel comfortable
* **Explore and share stories** from other communities

# Key Non-Functional Requirements

* No money involved
* Must enter home address to be connected
* Do not show home address to contacts
* Upon signing and entering address, immediately create/add to three groups:
  + Your neighbors i.e., everyone using the service within a 2km radius
  + Your local community i.e., everyone in your suburb
  + Your custom connections i.e., anyone you add yourself from your neighbors, community or external (e.g., friends and family outside your two radiuses)
* Auto see everyone in your neighborhood and community, but must add anyone external manually
* Exchanges to be managed online but executed offline in a secure place

# User Stories

1. Create an account
   * Create and update username and password
   * Ensure usernames are unique, passwords are strong
   * Require home address
   * Save information in database and authenticate upon login
   * Change password
   * Delete account
   * Go to dashboard once account is set up
2. View initial dashboard
   * View notifications (new offerings, exchange updates, new connections, stories)
   * Update profile
   * Go to offerings and considerations
   * Go to exchange centre
   * View connections and groups
   * View community page
   * View neighbor page
   * Go to search listings
   * Overall search box

1. Build out your profile
   * Enter from dashboard
   * Start with a basic page
   * Add a profile picture
   * Add a bio tag line
   * Add household details
   * Add general offerings and considerations up for swap
   * Include general skill offerings like flat packing, cooking, cleaning etc.
2. Connect with others
   * Enter from dashboard
   * View existing connections and groups
   * Search for connections
   * Add connection to a group
   * Delete connection
3. Search for GOS listings
   * Enter from dashboard
   * View all listings
   * Filter listings – by group, date added, type
   * Open a listing
   * Begin an exchange for a listing
   * Close a listing
4. Manage a GOS offering
   * Enter from dashboard
   * View existing GOS offerings and status
   * Add new GOS offering
     + Description
     + Type
     + Free or for exchange
     + For all or restricted group
     + Status
     + Date added
     + Possible considerations
   * Update GOS offering
   * Delete GOS offering
5. Manage a specific GOS consideration
   * Enter from dashboard
   * View existing GOS consideration and status
   * Add new GOS consideration
     + Description
     + Type
     + Free or for exchange
     + For all or restricted
     + Status
     + Date added
     + Possible offerings
   * Update GOS consideration
   * Delete GOS consideration
6. Manage a GOS exchange
   * Enter from offering
   * Make an offer as a suggester to exchange a GOS listing
   * Receive a response from the lister
   * Accept, suggest alternative exchange or reject the offer outright
   * Settle the exchange
   * Close off the exchange
   * View exchange history
7. Manage messages with connections
   * Enter message centre from dashboard
   * View inbox and new messages received
   * Create and send new message to one or many connections
   * Delete messages
   * Filter messages
   * View sent messages

# Further functionality or different app entirely

* **Set sustainability goals**, based on the Rs - get tips and reminders, see your progress
* **Gamify your sustainability goals** by unlocking sustainability achievements (including shares, giveaways and exchanges) and progressing up a sustainability ladder - see the progress on your profile, see how you compare to others/your neighborhood & community compare to others
* **Generate an automated sustainability level up plan based on user inputs**
* **Create a local event** and invite your neighbors
* **Create a community event** and invite connections from your suburb
* **Sustainable living practices blog with videos**

# Key Terms and Rules

**Offer Listing**

An offer listing or offering is either a good or service (GOS) that you are willing to either offer in exchange for another GOS or to give away for free.

**Consideration Listing**

A consideration is something you need or are willing to consider exchanging for something you have offered. A consideration can be specific to a particular GOS (which then appears on a user’s profile) whereas general considerations are a list of categories of items you would consider for an exchange – it’s then up to the ‘suggester’ to suggest a particular consideration.

**Exchange**

An exchange occurs where a user clicks on an offering listing and makes an initial offer in consideration for the item offer. The ‘offer lister’ is notified of the offer and is prompted to either accept, reject or suggest a different consideration. The ‘suggester’ in return either accepts, rejects or suggests a different consideration, and so on until a consensus is reached. If agreement is reached, the users agree on a method for exchange and make the exchange in the real world. Each user confirms the exchange which closes it. Both are prompted to review the exchange once it is complete.

**Neighborhood**

A radius of 2 kilometers around your house address.

**Local Community**

Your suburb + 2 kilometers around your house address.

**Network**

Your community connections + your external connections (friends and family outside your community geographical radius).