

## Product Requirements

**Team** To The Moon!

### Brief problem statement

We represent a funding group (Investiny Corp.) chartered to create applications for the benefit of communities all around the country. The product we envision is called Tool Share. At its core, Tool Share is meant to enable neighbors in a community to be able to share items of common use. The successful implementation should make it easy for anyone wanting to participate to register and be able to share or borrow items.

The Tool Share product is intended to improve communities by providing an easy mechanism for sharing items between neighbors. We envision this to primarily consist of tool exchanges but the implementation must be easily extended to include items of different kinds.

We want a product whose emphasis is on ease of use, whose navigation is straightforward and where the status of items and users is clearly displayed.

### Our Statement:

We have been asked to create a tool sharing web application that is intended to be used by members of a community. This application should allow for easy "sharing contracts" between neighbors. The application should be scalable for use with objects besides tools. Usability is a top priority.

### Stakeholders

**Investiny Corp. Board of Directors** – oversee the project's funding and expenses. Have vested interest in the proven success of the product but are not involved in the planning and execution.

**Investiny Corp. Product Owner** – will act as principle representative for Tool Share product needs. He/she champions the product with the Board of Directors, helps facilitate product decisions and has the ultimate say on when and what features should be released.

**Software Engineering Team** – is responsible for the day-to-day operations and coordination of all aspects related to the software product's life-cycle. This includes, among others: planning and delegation of team roles and responsibilities; elicitation and clarification of requirements; analysis and design; implementation, testing and release of all software components.

**Beta Testing Team** – represent the target user base for Tools Share. Will be available in later phases of the project to conduct acceptance testing and provide feedback on product release.

**End User** - The person that logs onto Tool Share. Users are those that have interactions with other users through the Tool Share system and are the ones that the application is aimed toward.

## Users profile

The target user must:

- Have basic experience using computers and browsing the internet. Has filled out online forms or surveys and may have purchased or sold a product.
- Have a computer with access to the internet
- Have an interest in improving their community by lending or borrowing items of common use with others living near by
- Is willing to share information such as home address and contact information
- Has tools or objects to share with others
- Has a need for a tool or object that can be fulfilled by other users
- Certain age for registration (recommend 16)

## System requirements

At a high-level this project will be source controlled in SVN, run on Django using Python, use Bootstrap for front end (in R2), use SQLite as the database management system, and needs to be compatible with the latest browsers.

Although the application needs to be accessible through the internet, deployments and demonstrations for this phase of the project will take place within the RIT Software Engineering environment. To this end, you must understand and document the target platforms from the perspective of the client browser as well as that of the server. Make sure to capture versions or software dependencies, programming languages and hardware specifications that are available for your use and proceed only after you document and confirm these with the customer.

No .	User Story Name	Description	Release
1	User - Registration	Registrant shall provide personal information and preferences to the System upon registering and becoming a User.  System will create a new Community upon request by User after registration, when no other communities are available.	R1
2	Account Management - change personal info	User shall be able to change personal information after registration  System will warn User if changing of community and effect any necessary changes to the item list.	R1  R2

<b>3</b>	Account Management - change user preferences	User shall be able to change preferences after registration	R1
<b>4</b>	Community Shed creation	User shall be able to create a Shed for his Community.  A Shed has a physical location where tools from several Users can be stored.  Shed creator becomes Admin of said shed.	R1
<b>5</b>	Tool Management - registration	User can register a tool by providing items information.  System will require a unique field to distinguish between similar tools  User accepts default Pickup Arrangement (set during tool registration) or select a different arrangement for this tool via private message to owner	R1   R2
<b>6</b>	Sharing – from Home	User can set a previously registered tool to be shared from home.  Tool cannot be shared from two places simultaneously  User must physically have possession of tool prior to sharing it.  User can change a previously registered tool	R1
<b>7</b>	Sharing – from Community Shed	User can set a previously registered tool to be shared from a Community Shed.  Tool cannot be shared from two places simultaneously.  User must physically move the tool to Shed prior to being allowed to share it.  Shed Admin can, from time to time, verify and change status of tools in Community Shed	R1   R2

<b>8</b>	Sharing – change location of tool	<p>User can change a previously registered tool to be shared elsewhere.</p> <p>System will prevent relocation when tool has an unresolved future reservation.</p>	R1
<b>9</b>	Sharing – change availability (blackout dates)	User can change availability of a tool. (for example: on blackout dates when he/she will be using the tool, or be away/unwilling)	R2
<b>10</b>	Sharing – approving a borrower	<p>System will notify User upon a request to borrow his/her tool.</p> <p>User owner of tool must approve the borrower when his/her tool is not at a Community Shed.</p> <p>System will notify borrower of decision by owner and update tools status if necessary.</p>	R2
<b>11</b>	Tool Listing – availability	<p>User can request from System a list of all tools and their availability. List shall be sorted by System.</p> <p>Only tools in User's Share Zone will be visible</p>	R1
<b>12</b>	Borrowing – request	<p>User can borrow a tool provided it is available.</p> <p>User can select to borrow a tool for specified days provided tool is available. Borrower can add a message to request.</p> <p>Owner of tool will need to “Approve” or “Reject” the request to borrow unless tools is in a Community Shed where it is always automatically approved.</p> <p>Upon approval, System will create Reservation with requested dates and update availability of a borrowed tool.</p> <p>Upon rejection, owner of tool must provide a small reason for “Reject”.</p> <p>System will send notification to borrower or lender including reason or message where applicable.</p>	<p>R1</p> <p>R2</p>

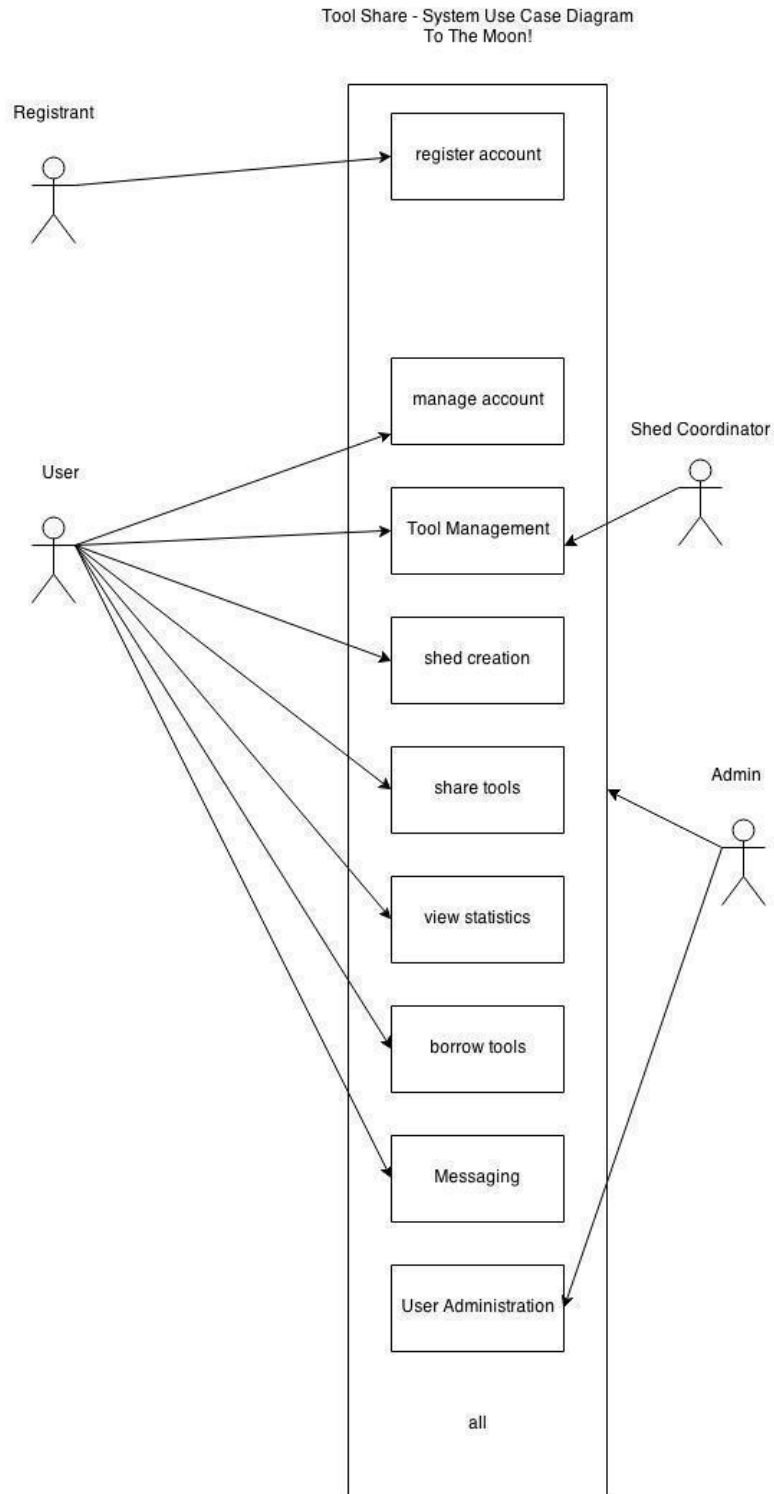
<b>13</b>	Borrowing – Pickup Arrangements	User sharing a tool The location is specified as address of home or shed in the community.	R1
<b>14</b>	Borrowing - returning	Borrower will return tool to pickup location unless otherwise agreed with tool owner.  Borrower will notify the System that tool has been "Returned"  Owner of tool will need to notify/acknowledge to the System that tool has been "Returned" to the home shed unless request to borrow was made from a Community Shed where it will be accepted as returned by the system.  System will update availability of a returned tool.	R2          R1
<b>15</b>	Tool Management – deregistration	User can deregister a tool they previously added to the System.  System will require confirmation in case of possible conflicts.  System will notify borrowers of tool being deregistered and update relevant information to disable availability of tool.	R2
<b>16</b>	Tool Management – Status	Owner of tool can request from System a list of registered owned tools and their status.	R2
<b>17</b>	Community Statistics	User can request a list of statistics for their specific Community. Upon request System will verify association and display such listing.  Statistics, not limited to, include: - most active lenders - most active borrowers - most used tools - most recently-used tools	R2

<b>18</b>	Messaging - User to User	User can send a private message directly to the inbox of another user.	R1
<b>19</b>	Messaging- System to User	System interacts with user by sending messages to user's inbox on behalf of other users	R1
<b>20</b>	Messaging - Post to Community Message Board	User can post a message on the Community MessageBoard which is viewable by all members of that community.	R1
<b>21</b>	Reputation - give feedback	A user with reputation above a certain threshold who is not banned may leave a comment and a reputation score for another user.	R2
<b>22</b>	Messaging - Delete Community Message board post	The user who posted the message, the community admin, or a superAdmin can remove a message posted on the message board.	R2
<b>23</b>	user management - banning users	The admin can choose to ban a user, based community rules. The banned users' posts remain, but their feedback they left on other users is reset, and their tools and messages are removed.	R2
<b>24</b>	Tool management -edit tool	The owner of the tool can edit aspects of the specific tool  Admins can edit any tool in a shed/community they manage	R2
<b>25</b>	User - Community Change	The user can change community when they decide to	R2
<b>26</b>	Private Messaging - Remove Message	User can delete any message from their inbox  Messages are deleted for that single user, not both sender and receiver, unless both users delete the same message respectively	R2

<b>27</b>	Admin – Update Shed Information	Shed Admin wants to edit the information relating to the shed in the community	R2
<b>28</b>	Admin – Update Community Information	Community Admin wants to edit the information relating to the community	R2

## **Use case diagram**





**Registrant**

**Registration**

**User:Owner**

**Account Management**

**Tool Management**

**Community Shed creation**

**Tool Listing**

**Tool Sharing**

**Community Statistics**

**Messaging**

**Post to message board**

**Reputation**

**User:Borrower**

**Account Management**

**Community Shed creation**

**Tool Listing**

**Tool Borrowing**

**Community Statistics**

**Messaging**

**Post to message board**

**Reputation**

**User:Shed Admin**

**Tool Listing**

**User:Admin**

**User Administration**

**System Administration**

**Use case description**

<b>Use Case Number:</b>	UC-01
<b>Use Case Name:</b>	User - Registration
<b>Overview:</b>	Registrant shall provide personal information and preferences to the System upon registering and become a User.
<b>Actor(s):</b>	Registrant
<b>Pre condition(s):</b>	<ul style="list-style-type: none"> <li>- System has been setup and configured.</li> <li>- System is running and open for registrations.</li> <li>- Registrant has accessed website via correct URL</li> </ul>
<b>Scenario Flow 1 :</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. Registrant selects option to register</li> <li>2. System requests personal information</li> <li>3. Registrant provided personal information.</li> <li>4. System verifies required information is provided.</li> </ol>
<b>Post Condition:</b>	Registrant completes registration and becomes a user, redirected to login page where success message is displayed and user can now login
<b>Scenario Flow 2:</b>	<b>Alternate Flows:</b> Registrant decides to cancel at any point After (2): <ol style="list-style-type: none"> <li>1. Registrant selects option to cancel during registration</li> </ol>
<b>Post Condition:</b>	Registrant did not complete registration, and is not registered as a user. System does not store Registrant's information. Registrant is redirected to the main screen that was reached by the initial URL

<b>Use Case Number:</b>	UC-02
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<b>Use Case Name:</b>	Tool Management - Registration
<b>Overview:</b>	The owner of the tools adds the tools that he wants to share on the website. This makes them visible and available to the rest of the community
<b>Actor(s):</b>	The owner
<b>Pre condition(s):</b>	User is registered and not banned The owner has a tool to share
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. Owner selects 'Add Tool' button from tools dropdown</li> <li>2. System requests tool information</li> <li>3. Owner fills in tool registration form</li> <li>4. System verifies all fields are filled in correctly</li> </ol>
<b>Post Condition:</b>	The tool is registered to the community/shed selected and user is redirected to the homepage and success message is displayed as confirmation
<b>Scenario Flow 2:</b>	<b>Alternate Flow:</b> Tool owner decides to not register the tool in the community/shed at this time After Step(2): <ol style="list-style-type: none"> <li>1. Owner clicks on the 'cancel' button</li> </ol>
<b>Post Condition:</b>	User cancels tool registration and tool is not added to database of tools in the community. User is redirected to the list of tools they are currently sharing in the community.

<b>Use Case Number:</b>	UC-03
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<b>Use Case Name:</b>	Tool Management – edit tool
<b>Overview:</b>	The owner of the tool wants to edit the location or other attributes of the tool
<b>Actor(s):</b>	Owner
<b>Pre condition(s):</b>	Owner has a tool already registered in the system User is registered and not banned
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. Owner selects 'my tools' buttons</li> <li>2. Owner then chooses the tool he wants to edit from a list, clicks the 'edit' button</li> <li>3. User is prompted with the same tool registration form, but can change attributes for the tool</li> <li>4. Owner makes desired changes</li> <li>5. Owner presses the submit button</li> </ol>
<b>Post Conditions:</b>	The changes to the tool is updated in the database, changes are reflected on tool listing pages and user is redirected to list of tools in the community
<b>Scenario Flow 2:</b>	<b>Alternate Flow:</b> Tool Owner decides to cancel the tool information update After Step(3): <ol style="list-style-type: none"> <li>1. Owner clicks cancel</li> </ol>
<b>Post Conditions:</b>	The tool's information is not updated and the user is redirected to the listing of available community tools

<b>Use Case Number:</b>	UC-04
<b>Use Case Name:</b>	Account Management – change personal info
<b>Overview:</b>	User wants to change their account settings
<b>Actor(s):</b>	User

<b>Pre condition(s):</b>	User must have already set up an account User is registered and not banned
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> For just changing user information:  1. User selects 'edit my info' button on top menu 2. System displays personal information 3. User edits personal information 4. User clicks the 'submit' button
<b>Post Condition:</b>	The user's account is updated and the user is redirected to the homepage
<b>Scenario Flow 2:</b>	<b>Alternate Flow:</b> For changing account password:  1. User clicks 'change password' button on account update page 2. User enters new password with required confirmation 3. User clicks submit
<b>Post Condition:</b>	User's account password is updated and user is redirected to the homepage
<b>Scenario Flow 3:</b>	<b>Alternate Flow(for flow 1 or 2):</b> User decides to cancel the account information update or the password update:  After Step(1): 1. User clicks cancel
<b>Post Condition:</b>	The user's account information is not updated and the user is redirected to the homepage

<b>Use Case Number:</b>	UC-05
<b>Use Case Name:</b>	Borrowing a tool
<b>Overview:</b>	Borrower wants to request a listed tool
<b>Actor(s):</b>	Tool owner (user) Tool borrower (user)
<b>Pre condition(s):</b>	User is registered and not banned Site has tools shared in the borrowers' community The respective tool is available
<b>Scenario Flow 1:</b>	<p><b>Main (success) Flow:</b></p> <p>Tool being shared from owner's home:</p> <ol style="list-style-type: none"> <li>1. Borrower clicks on the 'browse tool' button under the 'tool' dropdown menu</li> <li>2. Borrower finds a listed tool and clicks on it</li> <li>3. Borrower clicks on 'reserve' button</li> <li>4. Borrower enters requested start and end dates for reservation, as well as a reason for borrowing the tool</li> <li>5. Borrower is redirected to a success page after reserving the tool</li> <li>5. Owner gets the notification about the borrow request</li> <li>6. Owner accepts the borrow request</li> </ol>
<b>Post Condition:</b>	Borrower is assigned tool through the system
	<p><b>Alternate Flow:</b></p> <p>(at step 5 of flow 1)</p> <ol style="list-style-type: none"> <li>1. Owner rejects the borrow request</li> <li>2. Borrower is informed</li> <li>3. System does not update the status of the tool</li> </ol>
<b>Post Condition:</b>	The status of the tool should be set to not available and that the Borrower is currently using the tool
<b>Scenario Flow 2:</b>	<p><b>Alternate Flow:</b></p> <p>Tool being shared from a community shed:</p>

	<ol style="list-style-type: none"> <li>1. Borrower clicks on the 'browse tool' button under the 'tool' dropdown menu</li> <li>2. Borrower finds a listed tool and clicks on it</li> <li>3. Borrower clicks on 'reserve' button</li> <li>4. Borrower enters requested start and end dates for reservation, as well as a reason for borrowing the tool</li> </ol>
<b>Post Condition:</b>	Community shed automatically assigns accepted borrower as the new borrower for the reservation and sets the tool to borrowed

<b>Use Case Number:</b>	UC-06
<b>Use Case Name:</b>	Borrowing - Returning
<b>Overview:</b>	When the borrower is done with the tool he will submit to the system that he has returned it
<b>Actor(s):</b>	Owner Borrower
<b>Pre condition(s) :</b>	User is registered and not banned The borrower must have borrowed a tool from the owner Owner has a tool marked as borrowed Borrower has physically returned the tool
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. Borrower clicks on 'borrowed tools' button on the 'tools' dropdown menu</li> <li>2. Borrower clicks 'return tool' button on the specific tool</li> <li>3. Owner approves the return of the tool through the system messages</li> </ol>
<b>Post Condition:</b>	System updates the returned status of tool, marks it as available again, and the owner/borrower statuses are reset, borrower is redirected to 'borrowed tools' list and success message is displayed confirming tool was returned
	<b>Alternate Flow:</b>



	after step 2: 1. Owner rejects the return request (tool hasn't been returned) 2. System notifies the borrower of this 3. System does not update the status of the tool
<b>Post Condition:</b>	The tool that was borrowed is not updated in the system

<b>Use Case Number:</b>	UC-07
<b>Use Case Name:</b>	Shed Creation
<b>Overview:</b>	User wants to create a new shed within their community.
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	-User is registered and not banned
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks on 'create shed' from the 'community' dropdown menu 2. User fills out form for shed information 3. User clicks 'submit' button
<b>Post Condition:</b>	The shed is created and the database is updated to reflect this. User is redirected to the homepage and a success message is displayed
	<b>Alternate Flows:</b> User decides to cancel shed creation: After step 1: 1. User clicks the 'cancel' button
<b>Post Condition:</b>	The shed is not created and the user is redirected to the list of their tools

<b>Use Case Number:</b>	UC-08
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<b>Use Case Name:</b>	Sharing – From Home
<b>Overview:</b>	User wants to share a tool out of the home with their Community.
<b>Actor(s):</b>	User
<b>Pre condition(s) :</b>	-User is registered and not banned -User has a tool currently registered in the system -User has physical possession of the tool before sharing
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> 1. User clicks share tool 2. System prompts user for the tool they wish to share. 3. User selects tool from list of all their available tools 4. System notifies User that tool will shared from home
<b>Post Condition:</b>	Tool's location is updated to reflect the new location
	<b>Alternate Flow:</b> step 2 1. User decides to not share from home and cancels 2. System prompts user for confirmation 3. User accepts
<b>Post Condition:</b>	User is redirected back to the tool page and no changes in the database are made

<b>Use Case Number:</b>	UC-09
<b>Use Case Name:</b>	Sharing - From Community Shed
<b>Overview:</b>	User wants to share a tool out of a shed within their community, the initial sharing into the shed.
<b>Actor(s):</b>	User
<b>Pre condition(s) :</b>	-User is registered and not banned -User has a tool currently registered in the system

<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks share tool</li> <li>2. System prompts user for the tool they wish to share.</li> <li>3. User selects tool from list of all their available tools</li> <li>4. System notifies user that the tool has been updated and the new location is the shed</li> </ol>
<b>Post condition:</b>	Tool's location is updated to reflect the new location
	<b>Alternate Flows:</b> <p>step 2</p> <ol style="list-style-type: none"> <li>1. User decides not to share from the shed and cancels</li> <li>2. System prompts user for confirmation</li> <li>3. User accepts</li> </ol>
<b>Post Condition:</b>	User is redirected back to the shed page and no changes in the database are made

<b>Use Case Number:</b>	UC-10
<b>Use Case Name:</b>	Sharing - Approve/Deny Borrower
<b>Overview:</b>	Tool owner wants to approve or deny a borrow request.
<b>Actor(s):</b>	User:Owner User:Borrower
<b>Pre condition(s):</b>	-User is registered and not banned -Both users are registered in the system -Owner has a tool listed -Borrower has requested to borrow the listed tool
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. Owner clicks 'borrow requests' button under the messaging dropdown menu</li> <li>2. System redirects owner to a list of all his active borrow requests</li> <li>3. Owner clicks to approve the borrow request</li> </ol>

<b>Post Condition:</b>	Database is updated to reflect the owners decision and the borrower is notified of the decision. Borrower sees the borrowed tool that was confirmed in the borrowed tool list on his account
	<b>Alternate Flows:</b> After step 3: 1. Owner chooses to deny the borrow request. 2. Owner enters a reason why request is being denied 3. System sends reason to borrower
<b>Post Condition:</b>	No changes are made to the tool in the database and the owner is redirected back to the borrow request page

<b>Use Case Number:</b>	UC-11
<b>Use Case Name:</b>	Tool Listing - Availability
<b>Overview:</b>	User wants to view a list of all available tools in their community.
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is a member of a community
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks 'browse tools' button 2. System redirects owner to a page listing all tools flagged as available within his community
	<b>Alternate Flows:</b>
<b>Post Condition:</b>	View of community or shed tools that are flagged as available for borrowing within the designated area

<b>Use Case Number:</b>	UC-12
<b>Use Case Name:</b>	Messaging – User to User

<b>Overview:</b>	User wants to send a private message to another user within their community.
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is a member of a community
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks 'create a new message' button under messaging dropdown menu</li> <li>2. System prompts user for a subject line as well as a content field and receiver</li> <li>3. User fills in information and clicks 'send message' button</li> </ol>
<b>Post Condition:</b>	The message is sent and the user is redirected back to their mailbox, a success message is displayed so the user knows the message was sent
	<b>Alternate Flows:</b> After step 2: <ol style="list-style-type: none"> <li>1. User decides not to send a message and hits 'cancel'</li> </ol>
<b>Post Condition:</b>	The message is not sent and the user is redirected back to their mailbox

<b>Use Case Number:</b>	UC-13
<b>Use Case Name:</b>	Messaging - Post to Community Message Board
<b>Overview:</b>	User wants to post a message onto the community message board.
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is a member of the community they are trying to post to User is on the homepage
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b>

	<ol style="list-style-type: none"> <li>1. User enters post content into post textbox on the homepage</li> <li>2. User clicks 'post'</li> </ol>
<b>Post Condition:</b>	Message is posted to the message board and the user is redirected to the homepage

<b>Use Case Number:</b>	UC-15
<b>Use Case Name:</b>	Reputation – give feedback
<b>Overview:</b>	User wants to modify another user's reputation.
<b>Actor(s):</b>	Tool Owner (user) Tool Borrower (user)
<b>Pre condition(s):</b>	User is registered and not banned User's reputation is above a certain threshold User has had a previous share contract with target user Tool Owner is in inbox
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks on the message about providing feedback</li> <li>2. System prompts user for a reputation number (out of 5 currently) and a comment</li> <li>3. User fills in form and clicks 'submit'</li> </ol>
<b>Post Condition:</b>	User is redirected to the homepage and a success message is displayed confirming feedback has been provided
	<b>Alternate Flows:</b> After step 2: <ol style="list-style-type: none"> <li>1. User chooses not to give reputation and clicks cancel</li> </ol>
<b>Post Condition:</b>	No reputation changes are made and the user is redirected back to the inbox

<b>Use Case Number:</b>	UC-16
<b>Use Case Name:</b>	Tool Management - Status
<b>Overview:</b>	Tool owner wants to request a list of all their tools as well as the current status of them.
<b>Actor(s):</b>	Tool Owner (user)
<b>Pre condition(s):</b>	User is registered User has tools registered with the system
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. user clicks 'my tools' on the 'tools' dropdown menu 2. System displays information of all the user's owned tools in their community as well as tool availability
<b>Post Condition:</b>	User is on their tool page that displays all the tools they are currently sharing in the community

<b>Use Case Number:</b>	UC-17
<b>Use Case Name:</b>	User - Community Change
<b>Overview:</b>	User wants to move to another community
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is a member of a community
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks 'change community' from the 'community' dropdown menu 2. User is redirected to a page explaining communities and why they should or should not move between communities 3. User creates or joins a pre-established community
<b>Post Condition:</b>	User is redirected to the new community that was joined/created and changes are reflected on the new homepage to confirm this
	<b>Alternate Flows:</b>

	After step 2 1. User chooses not to change community and navigates through the navbar at the top of the page
<b>Post Condition:</b>	No changes are made and the user is redirected to whatever page he selected from the navbar

<b>Use Case Number:</b>	UC-18
<b>Use Case Name:</b>	Sharing – from Community Shed, edit status
<b>Overview:</b>	Shed Admin can alter status of tool as borrowed/returned
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is admin of community or shed
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks “Manage sheds” on the manage dropdown menu 2. User clicks on the specific tool and then the ‘remove’ button or the ‘edit’ button 3. User clicks ‘remove’ or ‘submit’ respectively
<b>Post Condition:</b>	User is redirected back to homepage and changes are reflected on the particular tool’s page; User is redirected to the list of tools in the shed if the tool was removed instead of edited
	<b>Alternate Flows:</b> After step 2: 1. User chooses not to alter tool status and clicks ‘cancel’
<b>Post Condition:</b>	No tool status is changed and user is redirected back to the homepage

<b>Use Case Number:</b>	UC-19
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<b>Use Case Name:</b>	Sharing - Change Availability (blackout dates)
<b>Overview:</b>	User can set when to share a tool, or display when it is unavailable
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User is owner of tool or admin User is on tool info page from 'browse tools'
<b>Scenario Flow 1:</b>	<b>Main (success) Flow:</b> 1. User clicks 'set blackout dates' button 2. User sets blackout date reservation 3. User clicks 'submit'
<b>Post Condition:</b>	User is redirected to the success page, and a message is displayed to confirm reservation is set
<b>Scenario Flow 2:</b>	<b>Alternate Flow:</b> 1. User chooses to remove tool availability entirely and clicks 'deactivate' button 3. User confirms
<b>Post Condition:</b>	Tools is no longer visible on the list of tools in the community, user is redirected back to the homepage, changes are saved
	<b>Alternate Flow (for scenario 1):</b> After step 2: 1. User decides not to set blackout dates and clicks 'cancel' 2. System prompts user to confirm 3. User clicks confirm
<b>Post Condition:</b>	System does not edit the tool and no changes are saved, user is redirected back to the list of owned tools

<b>Use Case Number:</b>	UC-20
<b>Use Case Name:</b>	Tool Management - Deregistration
<b>Overview:</b>	Tool owner wishes to remove a tool from the system
<b>Actor(s):</b>	User

	Community Admin Shed Admin
<b>Pre condition(s):</b>	User is registered and not banned User is owner of the tool User is on the specific tool info page from 'my tools' If admin – from 'manage sheds'
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks 'remove' button 2. System notifies User of conflicts with outstanding reservations and says they will be removed as well 3. User clicks 'confirm' and understands that the tool will be removed
<b>Post Condition:</b>	User is redirected back to homepage and the tool is no longer visible in the list of tools that are able to be borrowed, no longer listed under tool's owned by User. User redirected to homepage. Admin redirected to manage shed page
	<b>Alternate Flows:</b> After step 2 1. User chooses not to remove tool and clicks 'cancel' button
<b>Post Condition:</b>	No tool is changed and user is redirected back to the specific tool page/homepage respectively

<b>Use Case Number:</b>	UC-21
<b>Use Case Name:</b>	Messaging – Delete Community Message board post
<b>Overview:</b>	Post owner wishes to remove a post from the system
<b>Actor(s):</b>	User Community Admin
<b>Pre condition(s):</b>	User is registered and not banned User is owner of the post

	user is on the homepage
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks 'Delete Post' button</li> <li>2. User is notified this cannot be undone</li> <li>3. User clicks 'remove'</li> </ol>
<b>Post Condition:</b>	User is redirected back to homepage and the post is no longer visible in the list of posts that are on the Board.
	<b>Alternate Flows:</b> After step 2 <ol style="list-style-type: none"> <li>1. User chooses not to remove post and clicks 'close'</li> </ol>
<b>Post Condition:</b>	No post is changed and user is redirected back to the homepage.

<b>Use Case Number:</b>	UC-22
<b>Use Case Name:</b>	Private Messaging - Remove Message
<b>Overview:</b>	User wishes to remove a Message from the system
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned User has messages in inbox User is in the inbox
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks on the target message subject line</li> <li>2. User clicks 'delete message' button</li> <li>3. System notifies User action cannot be undone</li> <li>4. User clicks 'remove' button</li> </ol>
<b>Post Condition:</b>	User is redirected back to homepage and the post is no longer visible in the list of messages in the inbox. User redirected to homepage.
	<b>Alternate Flows:</b> After step 2:

	1. User chooses not to remove message and clicks 'close'
<b>Post Condition:</b>	No message is removed and user is redirected to the message page

<b>Use Case Number:</b>	UC-23
<b>Use Case Name:</b>	User Management - banning users
<b>Overview:</b>	Admin wishes to ban an undersirable user from the community
<b>Actor(s):</b>	Community Admin
<b>Pre condition(s):</b>	User is registered and not banned User is admin of the community
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks on 'users in my community' from the 'community' dropdown menu</li> <li>2. User clicks 'ban user' button</li> <li>3. System notifies User action cannot be undone</li> <li>4. User clicks 'ban user'</li> </ol>
<b>Post Condition:</b>	User is redirected to the list of users in the community and the banned user has been removed
	<b>Alternate Flows:</b> After step 2: <ol style="list-style-type: none"> <li>1. User chooses not to ban the user and clicks the 'close'</li> </ol>
<b>Post Condition:</b>	No user is removed and admin is redirected back to the list of users in the community.

<b>Use Case Number:</b>	UC-24
<b>Use Case Name:</b>	Community Statistics

<b>Overview:</b>	User wants to view a list of statistics for the community they reside in
<b>Actor(s):</b>	User
<b>Pre condition(s):</b>	User is registered and not banned Community has viable data for statistics
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks 'community statistics' from the 'community' dropdown menu
<b>Post Condition:</b>	User is redirected to a page showing various statistics about the community

<b>Use Case Number:</b>	UC-26
<b>Use Case Name:</b>	Admin – Update Shed Information
<b>Overview:</b>	Admin wants to update shed information
<b>Actor(s):</b>	Community Admin Shed Admin
<b>Pre condition(s):</b>	- User is registered and not banned - User is admin of a Shed or Community
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> 1. User clicks on 'manage sheds' from the 'community' dropdown menu 2. User clicks on 'edit this shed' button under the specific shed section on the page 3. User edits information in the form and clicks 'submit'
<b>Post Condition:</b>	The shed information is updated and the user is redirected to the homepage and a success message is displayed to confirm the changes
	<b>Alternate Flows:</b> User decides to cancel shed update: After step 1:

	1. User clicks the 'cancel' button
<b>Post Condition:</b>	The shed is not updated and the user is redirected to the list of sheds the user manages

<b>Use Case Number:</b>	UC-27
<b>Use Case Name:</b>	Admin – Update Community Information
<b>Overview:</b>	Admin wants to update community information
<b>Actor(s):</b>	Community Admin
<b>Pre condition(s):</b>	<ul style="list-style-type: none"> <li>- User is registered and not banned</li> <li>- User is Community Admin</li> </ul>
<b>Scenario Flow:</b>	<b>Main (success) Flow:</b> <ol style="list-style-type: none"> <li>1. User clicks on 'manage community' from the 'community' dropdown menu</li> <li>2. User edits information in the form and clicks 'submit'</li> </ol>
<b>Post Condition:</b>	The community information is updated and the user is redirected to the homepage and a success message is displayed to confirm the changes
	<b>Alternate Flows:</b> User decides to cancel community update: After step 1: <ol style="list-style-type: none"> <li>1. User clicks the 'cancel' button</li> </ol>
<b>Post Condition:</b>	The community is not updated and the user is redirected to the homepage