# **Project Part 2 - CSCI 4488**

Team: Yu Zhou, Christina Matteis, Daniel Nolan, Jacob C. Levine

Title: Share-It!

# **Project Summary:**

A share economy website where members list their personal knowledge/skills/resources that they'd be willing to share or trade. Then, if a user needs something they can browse the site for other users with that particular skill or resource. Such as someone that has the tools and/or know-how to help you tune your snowboard. The site would include location information so that you could find someone near you.

# **Project Requirements:**

Business Requirements								
ID	Requirement Topic Area User Priority							
No business requirements								

User Requirements						
ID	Requirement	Topic Area	User	Priority		
USR-001	New user can create a new account	Account setup	All users	Critical		
USR-002	Existing user can save personal skills/resources	User profile	All users	High		
USR-003	Existing user can search for someone with desired skill/resource	Searches	All users	Critical		
USR-004	Existing user can search by zip code to find skill/resource	Searches	All users	Medium		
USR-005	A System Administrator can unlock a locked account for a user.	Security	Sys Admin	High		
USR-006	A user can request to have their account deleted	User account	All users	Low		

USR-007	A user can submit support ticket	Customer service	All users	Medium
USR-008	A Sys. Admin must delete a user account if requested	Account deletion	Sys Admin	High
USR-009	A user can reset their password automatically through the "Forgot Password" link	Password reset	All users	High
USR-010	A user can message another user after finding that they have a certain skill/resource	Inter-user messaging	All users	High
USR-011	A user can login into the system.	Login	All users	High

Functional Requirements								
ID	Requirement Topic Area User Priority							
FUNC-001	User info must be deleted if a user requests it	Data deletion	All Users	Medium				

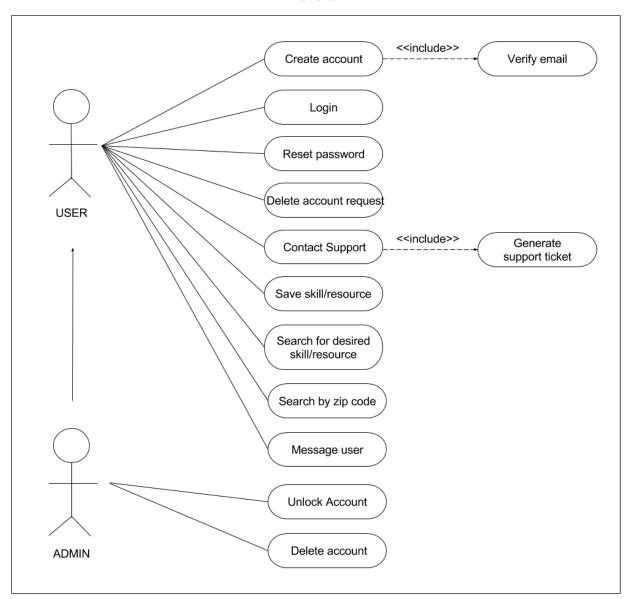
Non-Functional Requirements							
ID	Requirement	Topic Area	User	Priority			
NONF-001	User's accounts are password-protected for security reasons	Security	All users	Medium			
NONF-002	User's email address is verified as valid	Security	All users	Low			

# **Use Cases:**

Actors: Admin, Customers

# **Use Case Overview:**

## SYSTEM



## **Use Case Documents:**

Use Case ID:	USR-001
Use Case Name:	Create Account
Description:	A new user can create an account with an email address
Actors:	User

<b>Pre-Conditions:</b>	<ol> <li>User does not have an existing account</li> <li>User has active email address</li> </ol>			
<b>Post-Conditions:</b>	Use	r has a personal account for web use		
Frequency of Use:	Onc	ee		
Flow of Events:				
		Actor Action	System Response	
	1	User clicks "Create Account" button on homepage	Displays form for email address and password	
	2	User inputs email address, password, and accepts geolocation access then clicks "Submit" button.	System saves information to database and confirmation email is sent. Success prompt is shown.	
Variations:	2. If email is already in use, system will prompt user to either use another email or login.			
Notes and Issues:				
<b>Developer Notes:</b>				

Use Case ID:	USR-002	USR-002			
Use Case Name:	Save a skill or resource				
<b>Description:</b>	Existing user can save a personal skills or resource that is to be made available to other users for sharing.				
Actors:	User	User			
<b>Pre-Conditions:</b>	User has an active account and is logged in				
<b>Post-Conditions:</b>	New skill/resource is saved in database				
Frequency of Use:	Moderate				
Flow of Events:					
	Actor Action	System Response			

		Click "Save New Skill/Resource"	Displays list of skills/resources for user to pick from
		User selects applicable skills/resources and presses "Save"	System prompts for user to "Save Choices?" or Cancel
	2	User clicks save	System saves new skill/resource in database
Variations:	2. If user attempts to click save without picking at least one skill/resource, system prompts user to pick and resubmit.		
Notes and Issues:	User must pick at least one skill/resource to save		
<b>Developer Notes:</b>			

Use Case ID:	USI	USR-003			
Use Case Name:	Skil	l/resource search			
Description:	Exi	sting user can search for someone with desired	skill/resource		
Actors:	Use	r			
Pre-Conditions:	Use	r has an active account and is logged in			
Post-Conditions:	Mat	ching results (if any) are displayed			
Frequency of Use:	Hig	High			
Flow of Events:					
		Actor Action	System Response		
	1	1 User clicks on "Search" button Displays form for entering search criter			
	2	2 User fills in search form and clicks submit Displays list of any matching results			

Variations:	2. If form is missing any required fields, system prompts user to fill in those fields and resubmit.
Notes and Issues:	
<b>Developer Notes:</b>	

Use Case ID:	USR-004			
Use Case Name:	Skill/resource search by zip code			
Description:	Existing user can search by zip code to find someone with a specie skill/resource in their area.	fic		
Actors:	User			
Pre-Conditions:	User has an active account and is logged in			
Post-Conditions:	Matching results (if any) are displayed			
Frequency of Use:	High			
Flow of Events:	Actor Action System Resp  1 User clicks on "Search" button Displays formentering sear  2 User fills in search form and clicks submit Displays list matching res	m for ech criteria		
Variations:	2. If form is missing any required fields, system prompts user to fill in those fields and resubmit.			
Notes and Issues:				
<b>Developer Notes:</b>				

<b>Use Case ID:</b>	USR-005	
Use Case Name:	Unlock User Account	
Description:	A System Administrator can unlock a locked account for a user	

Actors:	User, Sys Admin		
Pre-Conditions:	User has an active, locked account and Sys Admin is logged in		
Post-Conditions:	Use	r is able to login to their account using new tem	p password
Frequency of Use:	Mod	derate	
Flow of Events:			
		Actor Action	System Response
	1	User calls customer service and requests a to have their account unlocked	
	3	Sys Admin clicks "Manage a user's account"	Displays form for entering a user's username
	4	Sys Admin enters the relevant username and clicks submit	Displays admin page for managing a specific user's account
	5	Sys Admin verifies user's identity by having them confirm account info on file	
	6	Sys Admin clicks "Unlock User Account"	User's account is unlocked
Variations:	6. If the user was unable to provide info that verifies their identity, the Sys Admin apologizes that they cannot help the user at this time and does not unlock the account.		
Notes and Issues:			
<b>Developer Notes:</b>			

Use Case ID:	USR-006	
<b>Use Case Name:</b>	Delete Account Request	
Description:	An existing user can request to delete their account	
Actors:	User	

<b>Pre-Conditions:</b>	User has an existing account			
<b>Post-Conditions:</b>	Acc	count will be marked for deletion		
Frequency of Use:	Onc	Once		
Flow of Events:				
		Actor Action	System Response	
	1	User clicks on "Manage Account"	Display user account settings	
	2	User clicks on "Request to Delete Account"	System prompts for confirmation	
	3	User confirms by clicking "OK"	System marks user's account for removal in database	
Variations:				
Notes and Issues:				
Developer Notes:				

Use Case ID:	USR-007			
Use Case Name:	Submit Support Ticket	Submit Support Ticket		
Description:	An existing user can write and submit a suppor	An existing user can write and submit a support ticket		
Actors:	User			
<b>Pre-Conditions:</b>	User has an existing account			
Post-Conditions:	User ticket has been submitted			
Frequency of Use:	Low			
Flow of Events:				
	Actor Action	System Response		
	1 User clicks on "Create a Ticket"	Display text box to		

			write a ticket
	2	User creates a ticket message	Text is displayed within the given textbox
	3	User submits a written ticket	A "Submission Successful" message displays
Variations:		f a ticket is missing any required fields, system page fields before submission.	prompts user to fill in
Notes and Issues:			
<b>Developer Notes:</b>			

Use Case ID:	USI	USR-008		
Use Case Name:	Del	Delete Account		
<b>Description:</b>		If deletion was requested by user, a system administrator will delete the account.		
Actors:	Adr	Admin		
<b>Pre-Conditions:</b>	Use	User has requested to delete their account		
Post-Conditions:	Use	User will no longer have an account		
Frequency of Use:	Onc	Once		
Flow of Events:				
		Actor Action	System Response	
	1	System Admin clicks "Requests for account removal"	Displays table of users requesting to delete accounts	
	2	Sys Admin clicks on specific user name	Displays admin page for managing a user's account	

	Sys Admin clicks "Permanently Delete Account"	System deletes all database tables associated with user account
Variations:		
Notes and Issues:		
<b>Developer Notes:</b>		

Use Case ID:	USI	USR-009		
<b>Use Case Name:</b>	Clic	Click "Password Reset" Link		
Description:		A user can click "Forgot Password," which generates a clickable link that resets a previous password		
Actors:	Use	or .		
Pre-Conditions:	Use	er has an existing account		
<b>Post-Conditions:</b>	Use	r password has been reset		
Frequency of Use:	One	e to many		
Flow of Events:	1 2 3	Actor Action  User clicks "Forgot Password" button  User enters their email address and clicks submit  User clicks "Password Reset" link in the email  User submits new password	System Response  System displays form for entering user's email address.  System sends a link to user allowing for password reset  Set of fields display allowing a user to change their password  System displays verification that the password has changed	

Variations:	3. If a user submits a previously used password, disable submission button and throw an error since it must be a new password.
	3. If the password field is empty, send a verification message stating that the field is empty and must be filled in.
Notes and Issues:	
<b>Developer Notes:</b>	

Use Case ID:	USI	USR-010		
Use Case Name:	Use	User Messaging		
Description:		A user can message another user after finding that they have a certain skill / resource		
Actors:	Use	rs		
Pre-Conditions:	Use	rs have existing accounts, user must have subn	nitted skills/resources	
<b>Post-Conditions:</b>	Use	r receives a message from another user		
Frequency of Use:	Hig	h		
Flow of Events:		I		
		Actor Action	System Response	
	1	User 1 searches for another user with a certain skill they are interested in	System displays all possible users that match the user's search	
	2	User 1 clicks on User 2 who has a chosen resource / skill	User 2 information and message link is displayed	
	3	User 1 messages User 2	User 2 receives a message from User 1 and both are CC'd onto an email / message board	

Variations:	
Notes and Issues:	
<b>Developer Notes:</b>	

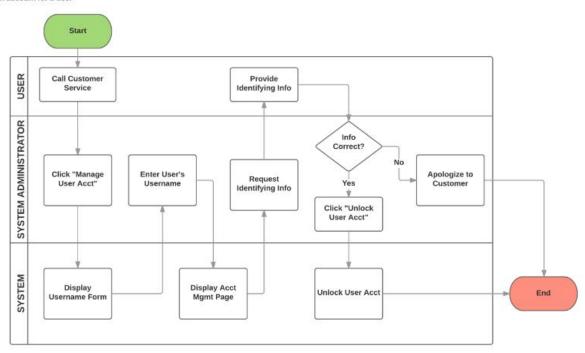
Use Case ID:	USR-011
Use Case Name:	User Login
Description:	A user can login into the system
Actors:	User
Pre-Conditions:	User has an existing account
<b>Post-Conditions:</b>	User has logged into their account
Frequency of Use:	High
Flow of Events:	Actor Action  System Response  User inputs username and password into designated fields  User clicks "Login" button  System logs user into their account
Variations:	2. If User submits incorrect values in login fields, system will prompt user to try logging in again.
Notes and Issues:	
<b>Developer Notes:</b>	

# **Activity Diagrams:**

1.

# **UNLOCK USER ACCOUNT**

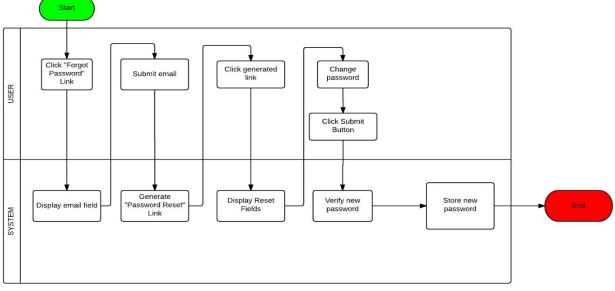
Requirement ID#: USR-005 Use Case ID#: USR-005 By: Jacob C. Levine Descprition: A Sys Admin unlocks an account for a user



2.

#### **CLICK "PASSWORD RESET" LINK**

Requirement ID #: USR-009
Use Case ID #: USR-009
By: Daniel Nolan
Description: A user can click "Forgot Password," which generates a clickable link that resets a previous password Start

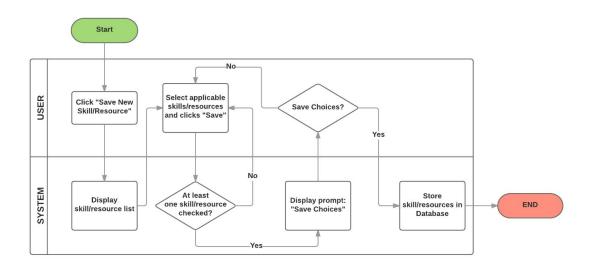


#### 3.

#### SAVE NEW SKILL/RESOURCE

Requirement ID#: USR-002 Use Case ID#: USR-002 By: Christina Matteis

Description: An existing user can save a personal skills or resource that is to be made available to other users for sharing.



4.

#### Skill/resource search by zip code

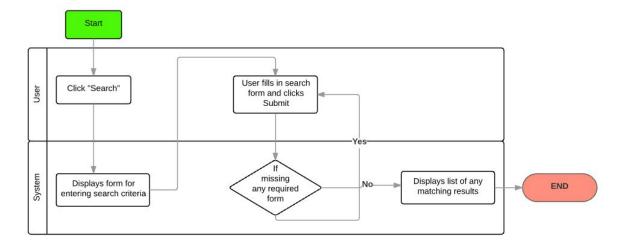
Requirement ID#: USR-004

Use Case ID#:USR-004

By Yu Zhou

Description: Existing user can search by zip code to find someone with a specific

skill/resource in their area.

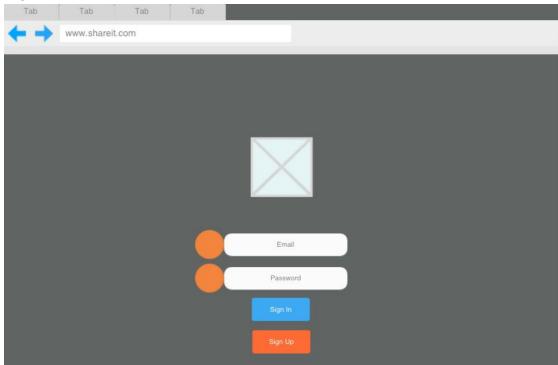


# **Data Storage:**

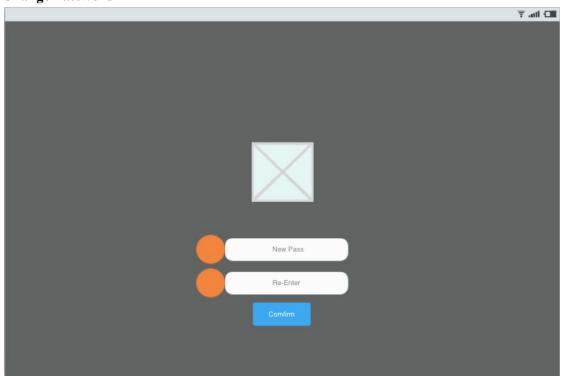
- MySQL database
- Classes:
  - DBmanager class to store all needed information such as user info (including System Administrators) and messages
  - o All other classes go through the DBmanager class

# **UI Mockups:**

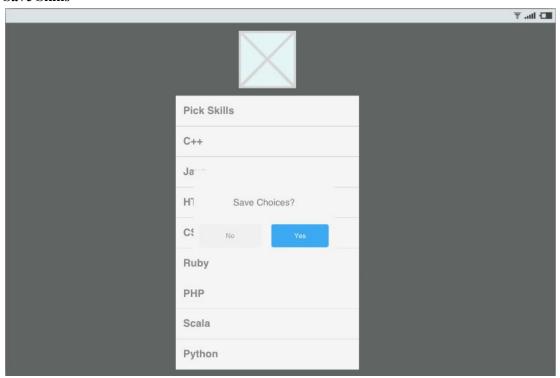
# Log In



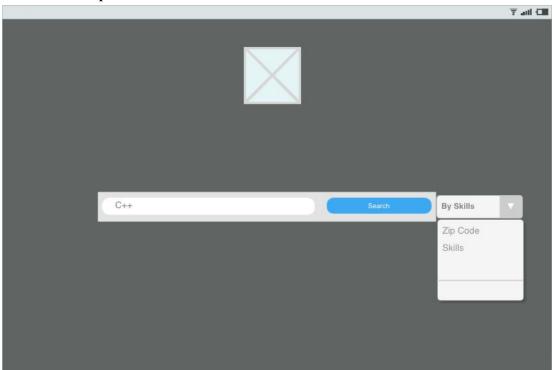
# **Change Password**



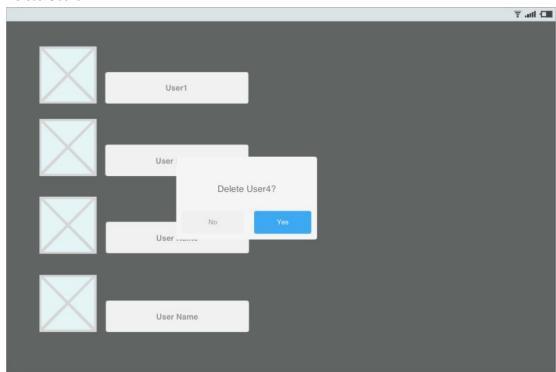
# **Save Skills**



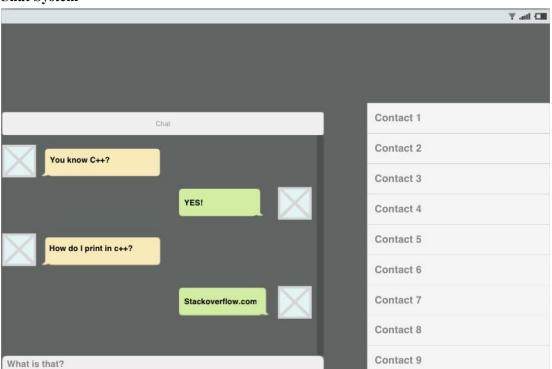
# Search Skills/Zip Code



# **Delete Users**



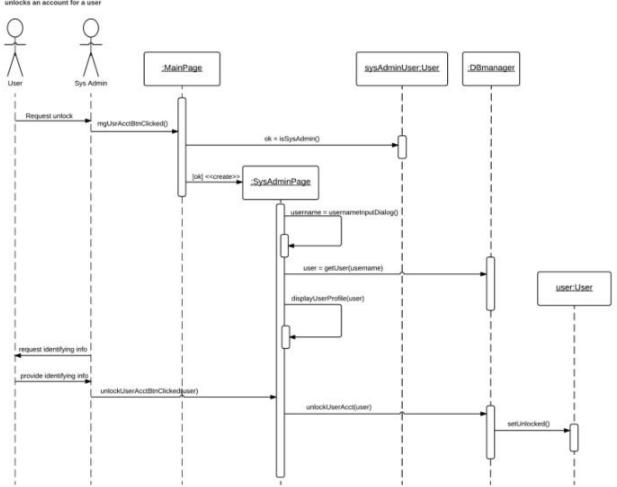
# **Chat System**



## **User Interactions:**

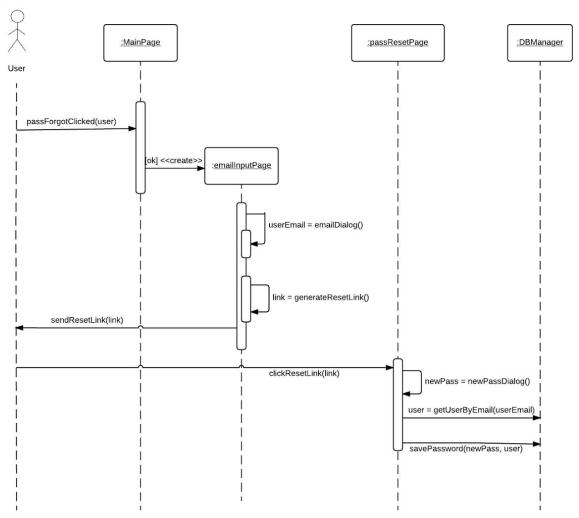
## UNLOCK USER ACCOUNT

Requirement ID#: USR-005 Use Case ID#: USR-005 By: Jacob C. Levine Descprition: A Sys Admin unlocks an account for a user

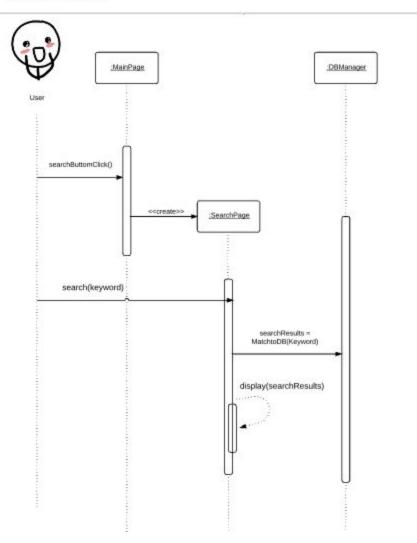


#### **CLICK "PASSWORD RESET" LINK**

Requirement ID #: USR-009
Use Case ID #: USR-009
By: Daniel Nolan
Description: A user can click "Forgot Password," which generates a clickable link that resets a previous password



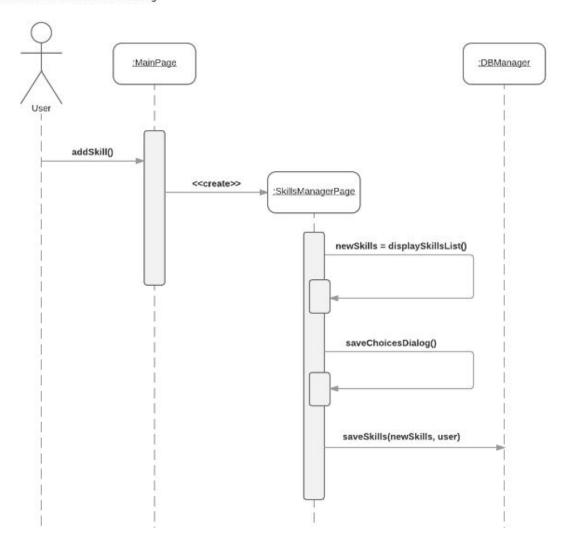
Skill/resource search by zip code
Requirement ID#: USR-004
Use Case ID#:USR-004
By Yu Zhou
Description: Existing user can search by zip code to find someone with a specific skill/resource in their area.



#### SAVE NEW SKILL/RESOURCE

Requirement ID#: USR-002 Use Case ID#: USR-002 By: Christina Matteis

Description: An existing user can save a personal skills or resource that is to be made available to other users for sharing.



# **Class Diagrams:**

