

**Team:** Andrew Candelaresi  
Austin Holler  
Rachel Lewis  
Dylan Shepard  
Leif Waldner

**Title:** cFood

**Project Summary:** Free food offers come around all the time, but it's sometimes hard to find out about them and take advantage of the opportunity. This app would allow users to post about locations and times of when the food is available. Other users can then verify if the offer is valid or tell people not to waste their time if someone made it up.

**Project Requirements:**

User

ID	Requirement	Topic Area	User	Priority
U-1	Log In	Access	All	Critical
U-2	Should be able to submit free events	Application Use	All	Critical
U-3	View events in a forum format	Application Use	All	High
U-4	View events in a map format	Application Use	All	High
U-5	Upvote events that are valid		All	Critical
U-6	Should be able to create a user account	Access		Critical

U-7	Should be able to retrieve location from phone	Application Use		High
U-8	Should be able to customize user account(add photo, add event affiliation)	Application Use	All	Low
U-9	User can report if an event is not valid	Monitoring	All	Medium
U-10	User can save events they want to attend	Application use	All	Medium
U-11	User can remove event	Monitoring	User that created event	High
U-12	User can report application bug	Monitoring		High
U-13	User can delete their own profile	Monitoring	this.User	Medium
U-14	User can view their own events	Application Use	All	Medium
U-15	Users can edit their own events	Application Use	All	Hgih

#### Business

ID	Requirement	Topic Area	User	Priority
B-1	Advertisement showing to users	Financial	All	Low
B-2				

## Functional

ID	Requirement	Topic Area	User	Priority
F-1	Reported invalid events need to be changed to inactive	Janitorial	System	Medium
F-2	Past events need to be changed to inactive	Janitorial	System	High
F-3	Events should be linked to a map	System	System	High
F-4	Events should be added to forum	System	System	High
F-5	User Id should be attached to the event they created	Monitoring	System	Low
F-6	User profile loses reputation for a reported invalid event			
F-7	User profile gains reputation for upvoted events after completion			
F-8	System check for validity in username/pass	Login	System	High

## Non-Functional

ID	Requirement	Topic Area	User	Priority
NF-1	Raw database is hidden from user	Security	All	High
NF-2	User will only have access to their own account	Security	All	Medium
NF-3	Users will be notified if system is down	System	All	Medium
NF-4	System will monitor for inappropriate listings	System	All	Medium

## Use Case Documents:

Use Case ID:	U-1																	
Use Case Name	Login																	
Description	User can login in to application																	
Actors:	User, System																	
Pre-Conditions:	Account has been created, System is operational																	
Post Conditions:	User is logged in to account																	
Frequency of Use	High																	
Flow of Events	<table><tr><td></td><td>Actor action</td><td>System response</td></tr><tr><td>1.</td><td>enter username</td><td>Verify that username name is registered</td></tr><tr><td>2.</td><td>enter password</td><td>verify that password matches expected password for registered username</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>				Actor action	System response	1.	enter username	Verify that username name is registered	2.	enter password	verify that password matches expected password for registered username						
	Actor action	System response																
1.	enter username	Verify that username name is registered																
2.	enter password	verify that password matches expected password for registered username																
Variations:	User can log in through google account																	
Notes and Issues:																		
Developer Notes:																		

Use Case ID:	U-2												
Use Case Name	Create Event												
Description	User can create an event for free food												
Actors:	Users												
Pre-Conditions:	User already has an account and is logged in												
Post Conditions:	User has created an event that can be seen and verified by the community.												
Frequency of Use	Daily and whenever desired by users.												
Flow of Events	<table><tr><td></td><td>Actor Action</td><td>System Response</td></tr><tr><td>1.</td><td>Click on create event</td><td>Direct user to create event form</td></tr><tr><td>2.</td><td>User fills out event form</td><td></td></tr><tr><td>3.</td><td>User submits event/form</td><td>Event is added to the events list and map. User ID is associated/shown as event submittor.</td></tr></table>		Actor Action	System Response	1.	Click on create event	Direct user to create event form	2.	User fills out event form		3.	User submits event/form	Event is added to the events list and map. User ID is associated/shown as event submittor.
	Actor Action	System Response											
1.	Click on create event	Direct user to create event form											
2.	User fills out event form												
3.	User submits event/form	Event is added to the events list and map. User ID is associated/shown as event submittor.											
Variations:													
Notes and Issues:	Decide if adding a photo during event creation should be something.												
Developer Notes:													

Use Case ID:	U-3								
Use Case Name	View Event in Forum Format								
Description	User can view all active events in forum format.								
Actors:									
Pre-Conditions:	User has a profile. User is logged in.								
Post Conditions:	None								
Frequency of Use	High								
Flow of Events	<table><tr><td></td><td>Actor action</td><td>System response</td></tr><tr><td>1.</td><td>User clicks display forum button.</td><td>Database's active event list is displayed in list format.</td></tr></table>				Actor action	System response	1.	User clicks display forum button.	Database's active event list is displayed in list format.
	Actor action	System response							
1.	User clicks display forum button.	Database's active event list is displayed in list format.							
Variations:	There are no events to display.								
Notes and Issues:									
Developer Notes:									

Use Case ID:	U-4								
Use Case Name	View Event in Map Format								
Description	User can view all active events in forum format.								
Actors:									
Pre-Conditions:	User has a profile. User is logged in. User is viewing active events.								
Post Conditions:	None								
Frequency of Use	High								
Flow of Events	<table><tr><td></td><td>Actor action</td><td>System response</td></tr><tr><td>1.</td><td>User clicks display map button.</td><td>Database’s active event list is displayed on a map with active events tagged.</td></tr></table>				Actor action	System response	1.	User clicks display map button.	Database’s active event list is displayed on a map with active events tagged.
	Actor action	System response							
1.	User clicks display map button.	Database’s active event list is displayed on a map with active events tagged.							
Variations:	There are no events to display.								
Notes and Issues:									
Developer Notes:									

Use Case ID:	U-5																	
Use Case Name	Event Verification Upvote																	
Description	A user can confirm that an event is real																	
Actors:	User, System																	
Pre-Conditions:	User has an account, user is logged in, event has been created,																	
Post Conditions:																		
Frequency of Use																		
Flow of Events	<table><tr><td></td><td>Actor Action</td><td>System Response</td></tr><tr><td>1.</td><td>user opens events list</td><td>events list is pulled up</td></tr><tr><td>2.</td><td>user clicks on the event they want to verify</td><td>event page is pulled up</td></tr><tr><td>3.</td><td>user clicks verify one event page</td><td>event object verified score is increased by one</td></tr><tr><td>4.</td><td></td><td></td></tr></table>				Actor Action	System Response	1.	user opens events list	events list is pulled up	2.	user clicks on the event they want to verify	event page is pulled up	3.	user clicks verify one event page	event object verified score is increased by one	4.		
	Actor Action	System Response																
1.	user opens events list	events list is pulled up																
2.	user clicks on the event they want to verify	event page is pulled up																
3.	user clicks verify one event page	event object verified score is increased by one																
4.																		
Variations:																		
Notes and Issues:																		
Developer Notes:	Should we have a bool or an int for verification, i.e. can an event be verified more than once																	



Use Case ID:	U-6																
Use Case Name	Create Account																
Description	User can create a unique username and password to establish an account																
Actors:	User, System																
Pre-Conditions:	System is operational																
Post Conditions:	User has a unique account																
Frequency of Use	Once per user																
Flow of Events	<table> <tr> <th></th><th>Actor action</th><th>System response</th></tr> <tr> <td>1.</td><td>user clicks register link</td><td>registration form is presented</td></tr> <tr> <td>2.</td><td>user fills out username password and personal information</td><td></td></tr> <tr> <td>3.</td><td>user clicks create account</td><td>system checks new information against all other account objects. If everything passes account object is created</td></tr> <tr> <td>4.</td><td></td><td></td></tr> </table>			Actor action	System response	1.	user clicks register link	registration form is presented	2.	user fills out username password and personal information		3.	user clicks create account	system checks new information against all other account objects. If everything passes account object is created	4.		
	Actor action	System response															
1.	user clicks register link	registration form is presented															
2.	user fills out username password and personal information																
3.	user clicks create account	system checks new information against all other account objects. If everything passes account object is created															
4.																	
Variations:																	
Notes and Issues:																	
Developer Notes:																	

Use Case ID:	U-7															
Use Case Name	Location Retrieval															
Description	Should be able to retrieve location from phone															
Actors:	User, System															
Pre-Conditions:	Location settings enabled on phone Creation of event initiated															
Post Conditions:	Current location added to location of event															
Frequency of Use	Medium															
Flow of Events	<table><tr><td></td><td><b>Actor Action</b></td><td><b>System Response</b></td></tr><tr><td>1.</td><td>User clicks “Current Location” button</td><td>Uses location settings to access the address of where the phone currently is Displays this address in the event creation page</td></tr><tr><td>2.</td><td>User approves location</td><td>Location is added to the event</td></tr><tr><td>3.</td><td></td><td></td></tr><tr><td>4.</td><td></td><td></td></tr></table>		<b>Actor Action</b>	<b>System Response</b>	1.	User clicks “Current Location” button	Uses location settings to access the address of where the phone currently is Displays this address in the event creation page	2.	User approves location	Location is added to the event	3.			4.		
	<b>Actor Action</b>	<b>System Response</b>														
1.	User clicks “Current Location” button	Uses location settings to access the address of where the phone currently is Displays this address in the event creation page														
2.	User approves location	Location is added to the event														
3.																
4.																
Variations:	User can discard the location if incorrect, then they can try again or enter the location manually.															
Notes and Issues:																
Developer Notes:	Have to learn to access the map application.															

Use Case ID:	U-8																	
Use Case Name	Customize Profile																	
Description	User can upload a profile picture and edit their profile information																	
Actors:	User, System																	
Pre-Conditions:	User has created account, user is logged in																	
Post Conditions:	User account has been edited																	
Frequency of Use	Low																	
Flow of Events	<table><thead><tr><th></th><th>Actor Action</th><th>System Response</th></tr></thead><tbody><tr><td>1.</td><td>Click on “Edit Profile” button</td><td>Profile editing page is displayed</td></tr><tr><td>2.</td><td>User fills out any fields they may want to change</td><td></td></tr><tr><td>3.</td><td>User uploads a picture</td><td></td></tr><tr><td>4.</td><td>User submits changes</td><td>Account object is edited to reflect changes made by user</td></tr></tbody></table>				Actor Action	System Response	1.	Click on “Edit Profile” button	Profile editing page is displayed	2.	User fills out any fields they may want to change		3.	User uploads a picture		4.	User submits changes	Account object is edited to reflect changes made by user
	Actor Action	System Response																
1.	Click on “Edit Profile” button	Profile editing page is displayed																
2.	User fills out any fields they may want to change																	
3.	User uploads a picture																	
4.	User submits changes	Account object is edited to reflect changes made by user																
Variations:	3. User can choose not to upload a picture																	
Notes and Issues:																		
Developer Notes:	We will need getters and setters for any account instance variables																	

Use Case ID:	U-9															
Use Case Name	Report Invalid Event															
Description	User can report if an event is not valid.															
Actors:	User, System															
Pre-Conditions:	Event has been created															
Post Conditions:	***Event is removed?															
Frequency of Use	Medium															
Flow of Events	<table><tr><td></td><td><b>Actor Action</b></td><td><b>System Response</b></td></tr><tr><td>1.</td><td>Click on “Report Invalid” button</td><td>system attaches a flag to event</td></tr><tr><td>2.</td><td></td><td></td></tr><tr><td>3.</td><td></td><td></td></tr><tr><td>4.</td><td></td><td></td></tr></table>		<b>Actor Action</b>	<b>System Response</b>	1.	Click on “Report Invalid” button	system attaches a flag to event	2.			3.			4.		
	<b>Actor Action</b>	<b>System Response</b>														
1.	Click on “Report Invalid” button	system attaches a flag to event														
2.																
3.																
4.																

Variations:	
Notes and Issues:	Forgot exactly how we talked about this last time
Developer Notes:	

Use Case ID:	U-10																
Use Case Name	Save Events																
Description	User can save an event to My Events page																
Actors:	User, System																
Pre-Conditions:	An event has been created, User has account, User is logged in																
Post Conditions:	The event is saved to the users "My Events" page																
Frequency of Use	often																
Flow of Events	<table border="1"> <thead> <tr> <th></th><th>Actor action</th><th>System response</th></tr> </thead> <tbody> <tr> <td>1.</td><td>user selects an event</td><td>Event is loaded with mini map</td></tr> <tr> <td>2.</td><td>user clicks save event</td><td>event added to user's my events</td></tr> <tr> <td>3.</td><td></td><td></td></tr> <tr> <td>4.</td><td></td><td></td></tr> </tbody> </table>			Actor action	System response	1.	user selects an event	Event is loaded with mini map	2.	user clicks save event	event added to user's my events	3.			4.		
	Actor action	System response															
1.	user selects an event	Event is loaded with mini map															
2.	user clicks save event	event added to user's my events															
3.																	
4.																	
Variations:																	
Notes and Issues:																	
Developer Notes:																	

Use Case ID:	U-11													
Use Case Name	Remove a created event													
Description	If user created an event, they should be able to remove it.													
Actors:	Users													
Pre-Conditions:	User is logged in and they've created an event													
Post Conditions:	Event should become inactive													
Frequency of Use	Daily and whenever a user feels necessary													
Flow of Events	<table border="1"> <thead> <tr> <th></th><th>Actor Action</th><th>System Response</th></tr> </thead> <tbody> <tr> <td>1.</td><td>User views "My Events"</td><td>Directs user to a listing of their created events</td></tr> <tr> <td>2.</td><td>User clicks "Remove Event" for an event</td><td>Confirm that user wants to remove event with a "confirm/cancel" choice</td></tr> <tr> <td>3.</td><td>User confirms removal</td><td>System changes event to inactive</td></tr> </tbody> </table>			Actor Action	System Response	1.	User views "My Events"	Directs user to a listing of their created events	2.	User clicks "Remove Event" for an event	Confirm that user wants to remove event with a "confirm/cancel" choice	3.	User confirms removal	System changes event to inactive
	Actor Action	System Response												
1.	User views "My Events"	Directs user to a listing of their created events												
2.	User clicks "Remove Event" for an event	Confirm that user wants to remove event with a "confirm/cancel" choice												
3.	User confirms removal	System changes event to inactive												

Variations:	
Notes and Issues:	
Developer Notes:	

Use Case ID:	U-12																	
Use Case Name	User can report application bug																	
Description	When an application problem has been noticed,																	
Actors:	User, Admin																	
Pre-Conditions:	User has notice application bug and wants to report it																	
Post Conditions:	Bug and system status gets reported to developer																	
Frequency of Use	rare																	
Flow of Events	<table><tr><td></td><td>Actor action</td><td>System response</td></tr><tr><td>1.</td><td>User click report bug link</td><td>loads report bug form</td></tr><tr><td>2.</td><td>submit bug report</td><td>bug report is logged</td></tr><tr><td>3.</td><td></td><td></td></tr><tr><td>4.</td><td></td><td></td></tr></table>				Actor action	System response	1.	User click report bug link	loads report bug form	2.	submit bug report	bug report is logged	3.			4.		
	Actor action	System response																
1.	User click report bug link	loads report bug form																
2.	submit bug report	bug report is logged																
3.																		
4.																		
Variations:																		
Notes and Issues:																		
Developer Notes:	Realistically, few send these messages anyway																	

Use Case ID:	U-13																	
Use Case Name	User Profile Deletion																	
Description	User can delete their entire profile if wanted																	
Actors:	User, system																	
Pre-Conditions:	User has active profile																	
Post Conditions:	User no longer has access to profile																	
Frequency of Use	Once per user, at maximum																	
Flow of Events	<table><tr><td></td><td>Actor Action</td><td>System Response</td></tr><tr><td>1.</td><td>User clicks “delete” on profile</td><td>Asks user if they’re sure</td></tr><tr><td>2.</td><td>User confirms being sure</td><td>Profile is marked for deletion</td></tr><tr><td>3.</td><td>User gets message profile is deleted</td><td>Profile isn’t really deleted (hehe)</td></tr><tr><td>4.</td><td></td><td></td></tr></table>				Actor Action	System Response	1.	User clicks “delete” on profile	Asks user if they’re sure	2.	User confirms being sure	Profile is marked for deletion	3.	User gets message profile is deleted	Profile isn’t really deleted (hehe)	4.		
	Actor Action	System Response																
1.	User clicks “delete” on profile	Asks user if they’re sure																
2.	User confirms being sure	Profile is marked for deletion																
3.	User gets message profile is deleted	Profile isn’t really deleted (hehe)																
4.																		

Variations:	
Notes and Issues:	
Developer Notes:	

Use Case ID:	U-14									
Use Case Name	View “My Events”									
Description	User can view a listing of all active events they created as well as saved events from									
Actors:	Users									
Pre-Conditions:	Logged In									
Post Conditions:	User can see all of their current created events									
Frequency of Use	Daily and whenever a user is inclined									
Flow of Events	<table><tr><td></td><td><b>Actor Action</b></td><td><b>System Response</b></td></tr><tr><td>1.</td><td>User goes to their menu and clicks “My Events”</td><td>System directs them to a “My Events” page where events they have created are listed or “None Listed” is displayed. As well as Events saved from the forum</td></tr><tr><td>2.</td><td></td><td></td></tr></table>		<b>Actor Action</b>	<b>System Response</b>	1.	User goes to their menu and clicks “My Events”	System directs them to a “My Events” page where events they have created are listed or “None Listed” is displayed. As well as Events saved from the forum	2.		
	<b>Actor Action</b>	<b>System Response</b>								
1.	User goes to their menu and clicks “My Events”	System directs them to a “My Events” page where events they have created are listed or “None Listed” is displayed. As well as Events saved from the forum								
2.										
Variations:										
Notes and Issues:										
Developer Notes:										

Use Case ID:	U-15																	
Use Case Name	Edit Event																	
Description	As a user, you may edit your created events																	
Actors:	Users																	
Pre-Conditions:	User is logged in and an event created																	
Post Conditions:	Events has been edited and propagated through the system																	
Frequency of Use	Daily and whenever a user needs to edit an event																	
Flow of Events	<table><thead><tr><th></th><th>Actor Action</th><th>System Response</th></tr></thead><tbody><tr><td>1.</td><td>User goes to their menu and clicks “My Events”</td><td>System directs them to a “My Events” page where current events are listed</td></tr><tr><td>2.</td><td>User clicks “Edit Event”</td><td>System brings user to the event form</td></tr><tr><td>3.</td><td>User edits the info</td><td></td></tr><tr><td>4.</td><td>User submits edits</td><td>Systems propagates edited info</td></tr></tbody></table>				Actor Action	System Response	1.	User goes to their menu and clicks “My Events”	System directs them to a “My Events” page where current events are listed	2.	User clicks “Edit Event”	System brings user to the event form	3.	User edits the info		4.	User submits edits	Systems propagates edited info
	Actor Action	System Response																
1.	User goes to their menu and clicks “My Events”	System directs them to a “My Events” page where current events are listed																
2.	User clicks “Edit Event”	System brings user to the event form																
3.	User edits the info																	
4.	User submits edits	Systems propagates edited info																
Variations:																		
Notes and Issues:																		
Developer Notes:																		

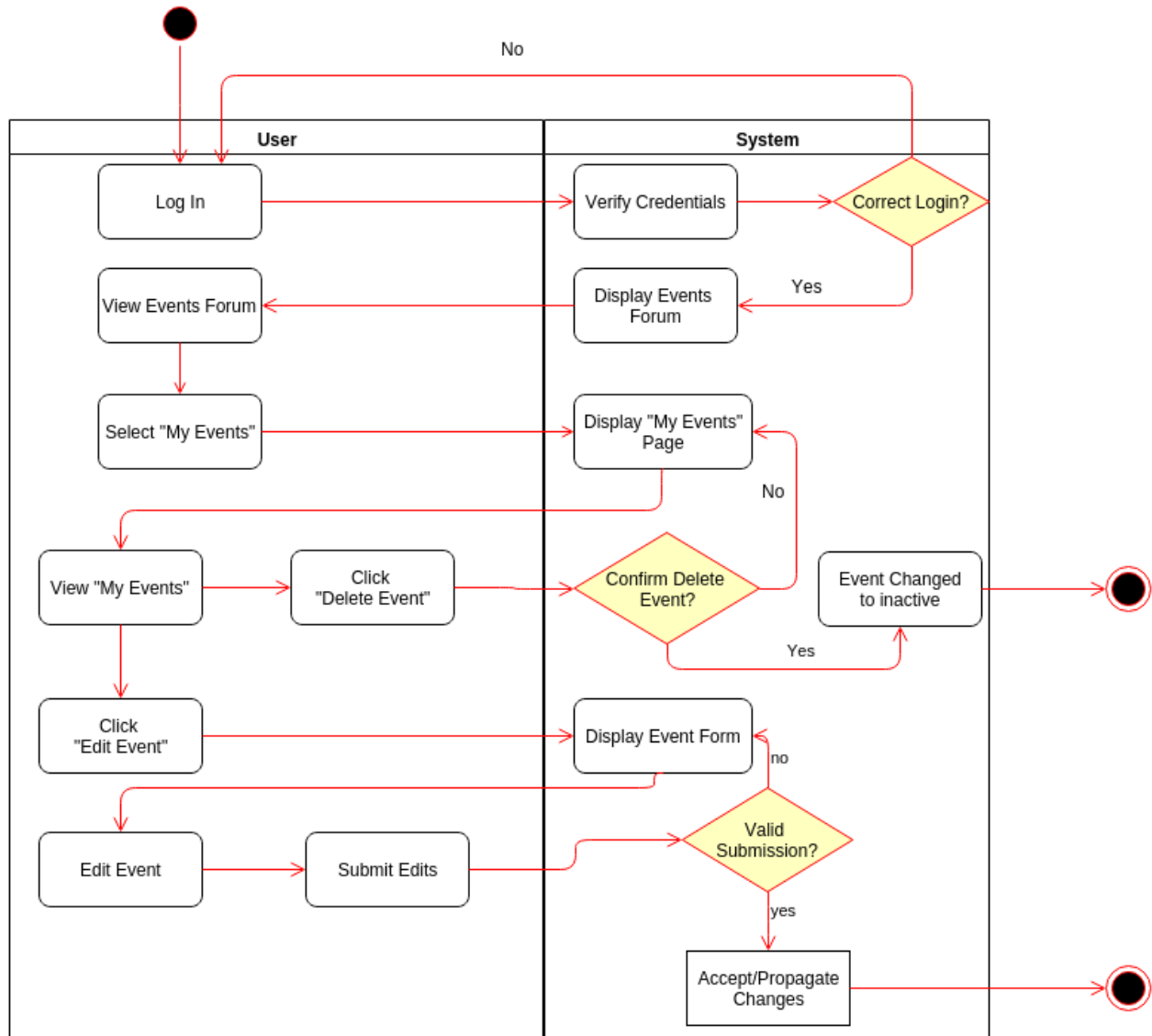
**Use Case Diagram:**



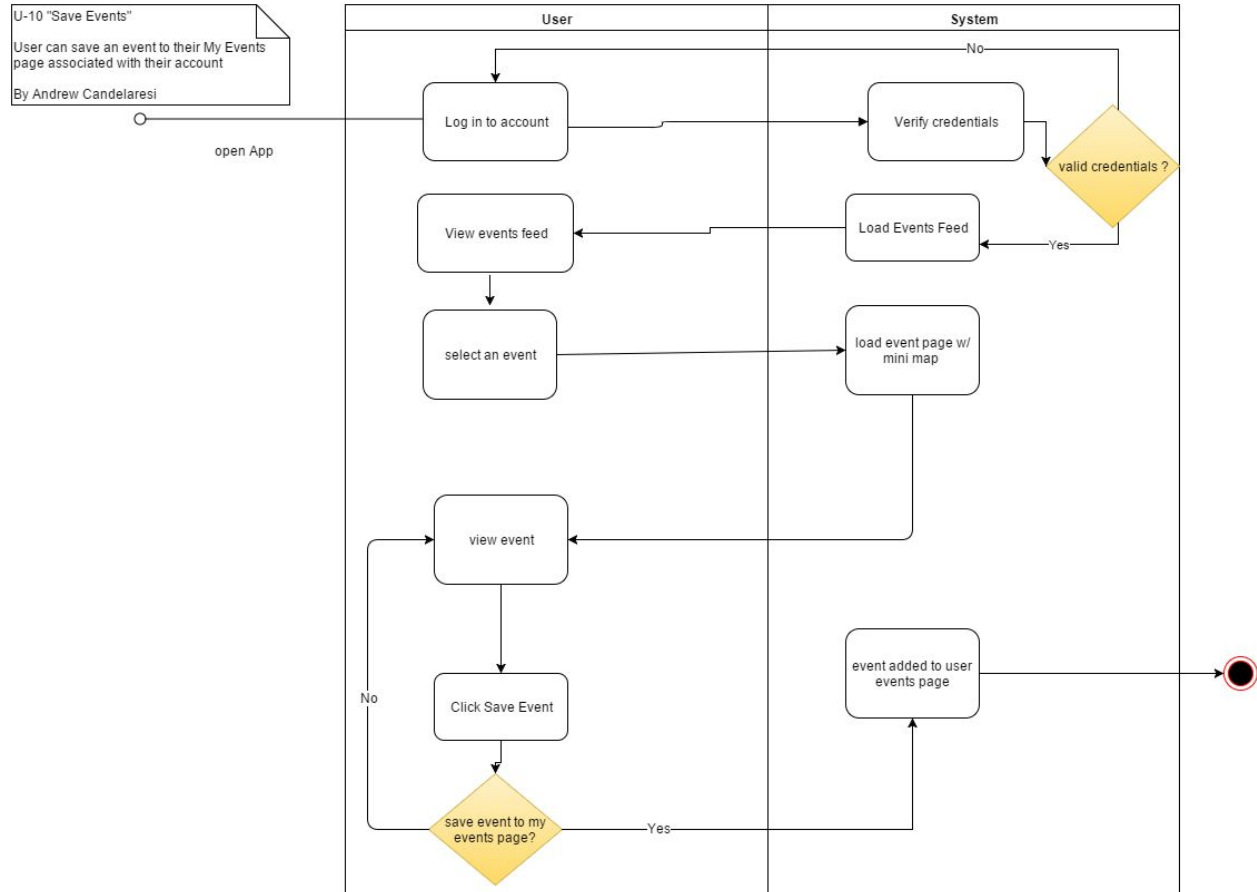


## Activity Diagrams:

### Austin Hollers Activity Diagram

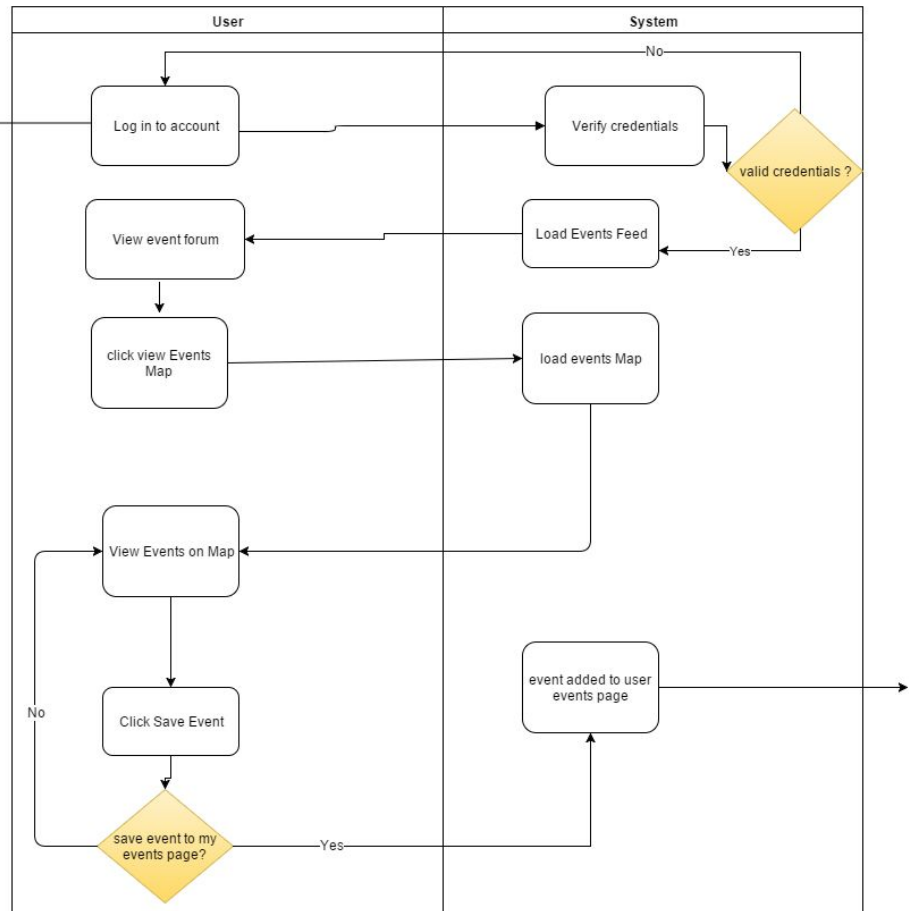


## Andrew Canelaresi's Activity Diagram:

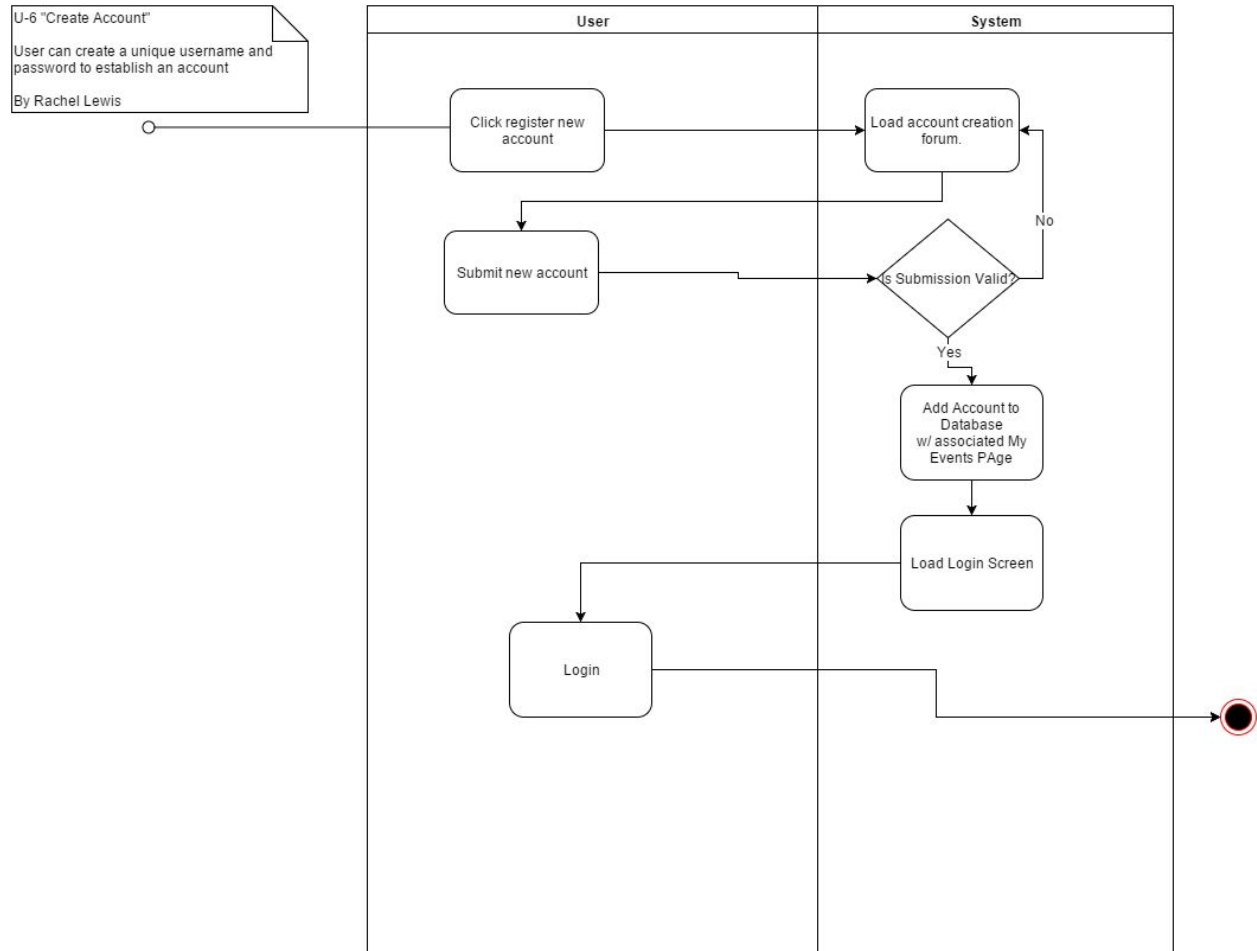


U-10 "Save Events from Map View"  
User can save an event to their My Events  
page associated with their account  
By Andrew Candelaresi

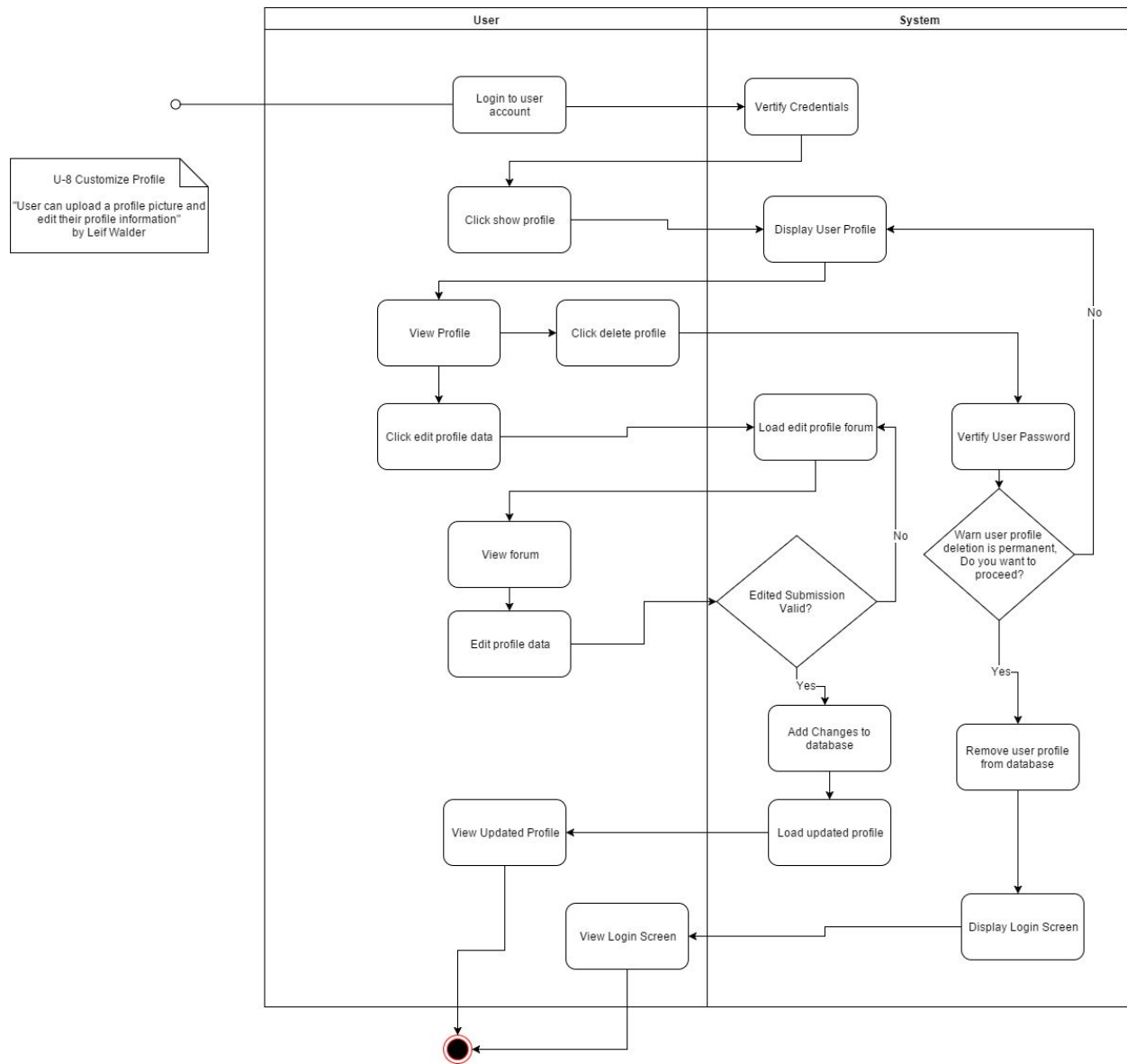
○  
open App



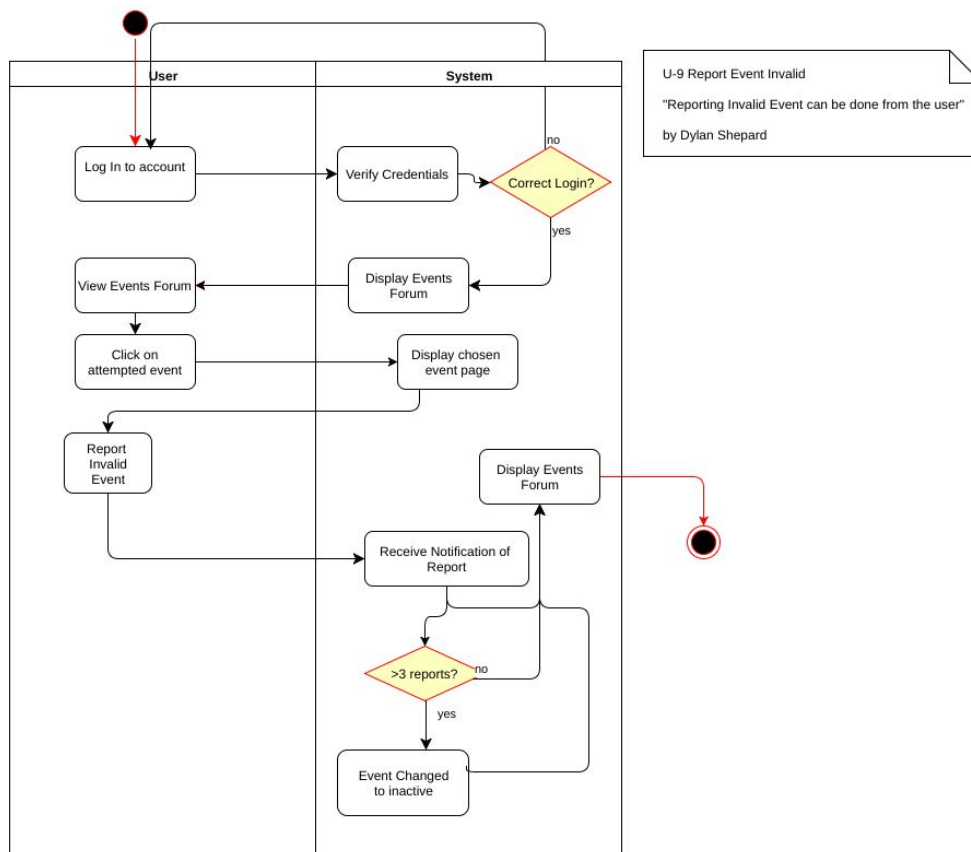
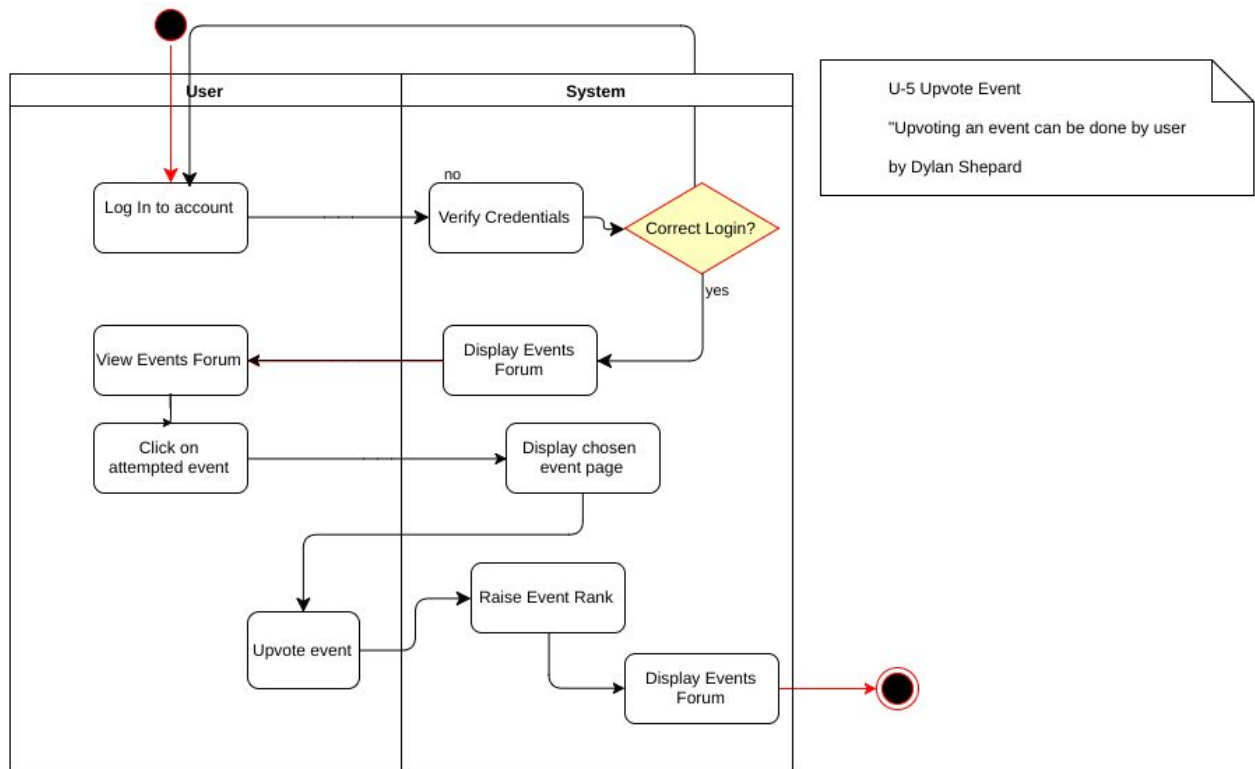
## Rachel Lewis' Activity Diagram:



## Leif Walder Activity Diagram:



## Dylan Shepard Activity Diagram:



## Data Storage: XML

### Classes:

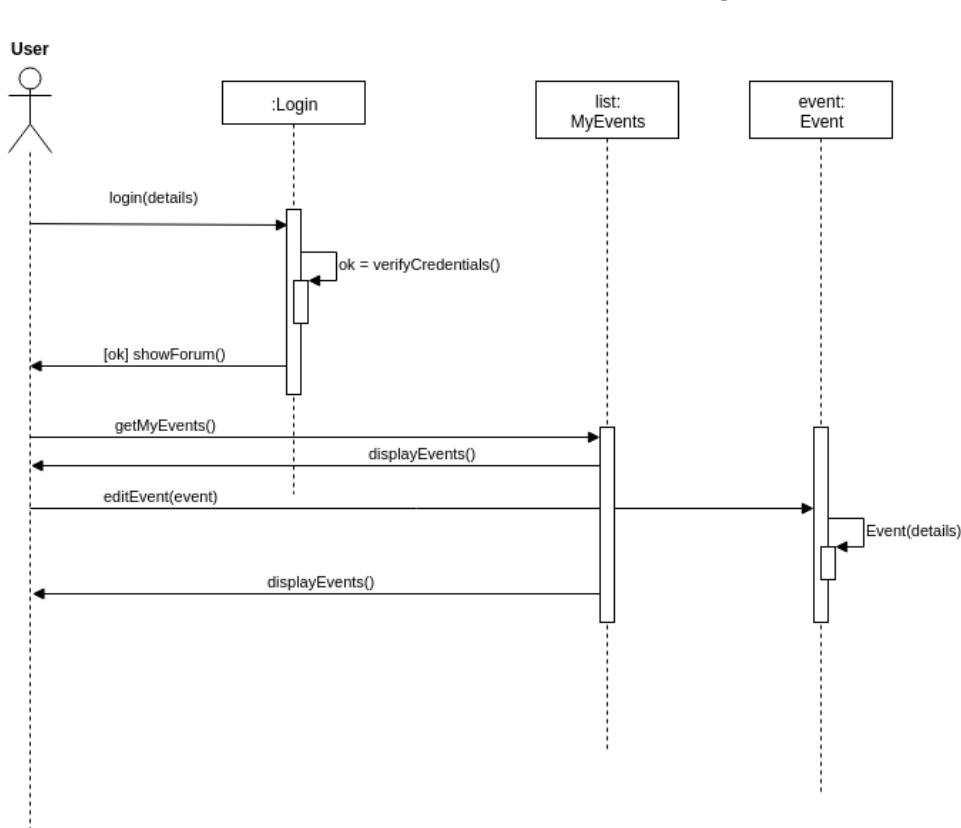
- Account class to store account information.
- ProfileInfo class to obtain account information.
- MyEventPage class to remove user's own event.
- MyEventPage class to obtain user's own event information.
- Events class to store event information.
- EventFeed class to obtain event information.

### UI Mockups:

- Included in a posted PDF

### User Interactions:

#### Austin Hollers Seq. Diagram



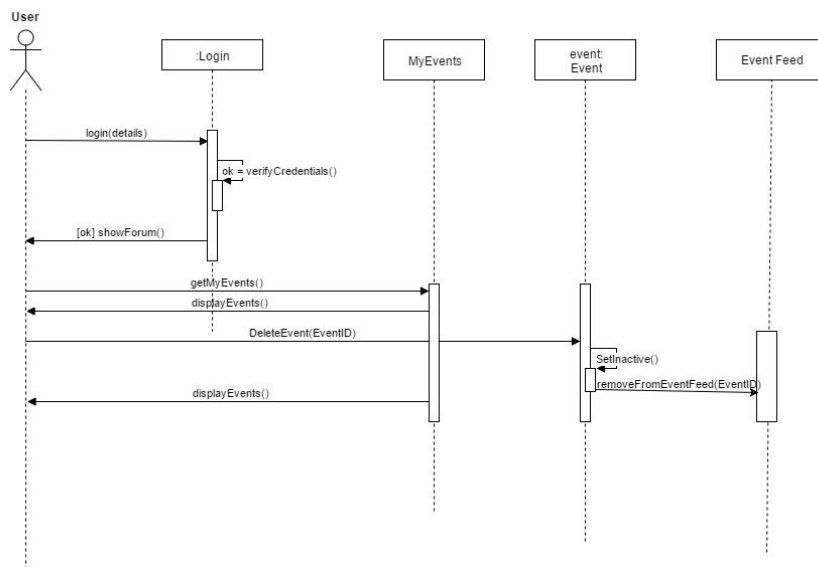
#### U-15 "User can edit their own event"

This shows the process of a user editing their event. First by logging in, then by selecting to edit an event, editing it, and the system doing so.

By: Austin Holler



### Andrew Candelaresi Sequence Diagram:

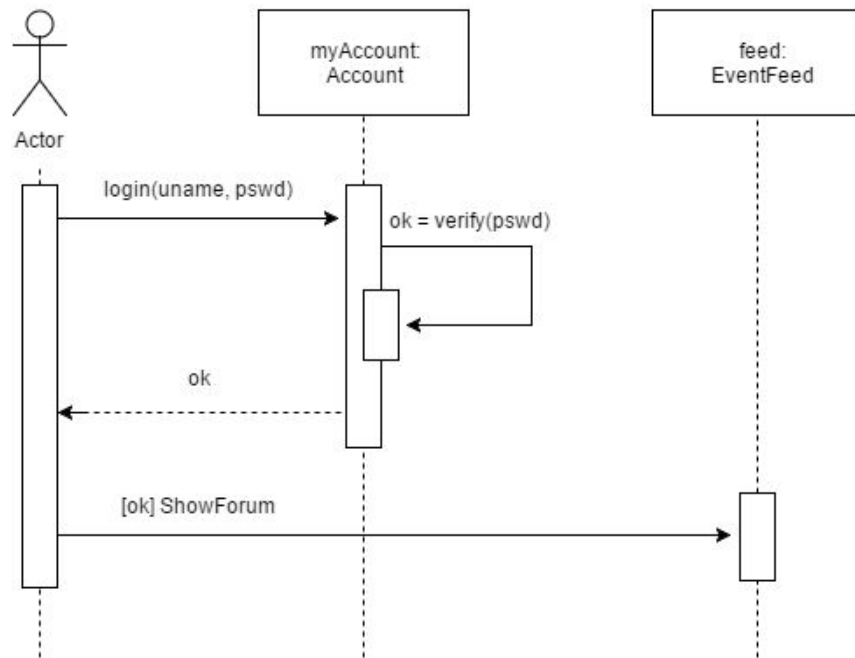


#### U-11 "User Can Remove their event"

Shows the process for a user to "delete" an event they have created

By Andrew Candelaresi

### Rachel Lewis Sequence Diagram:

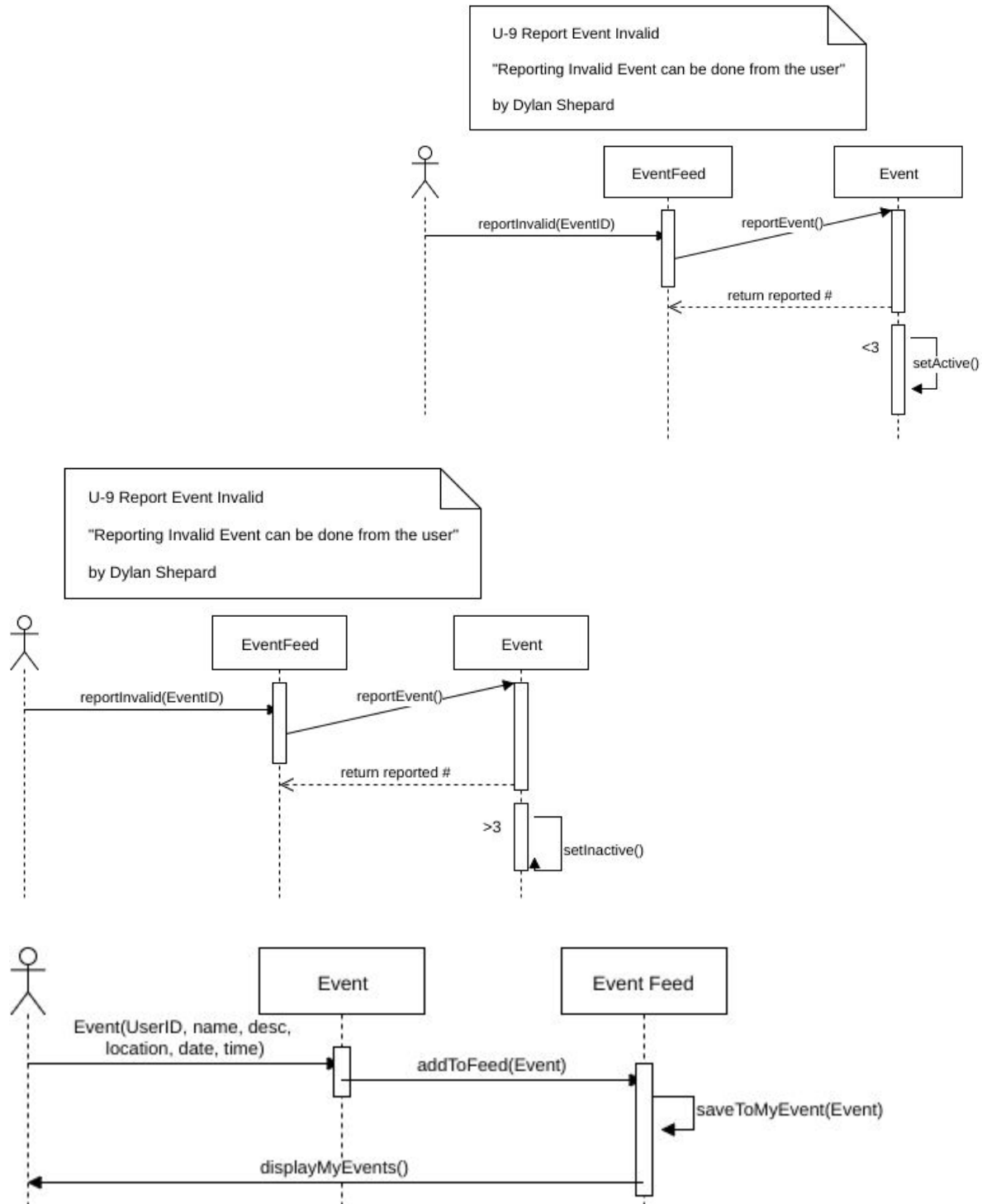


### U-1 "Login"

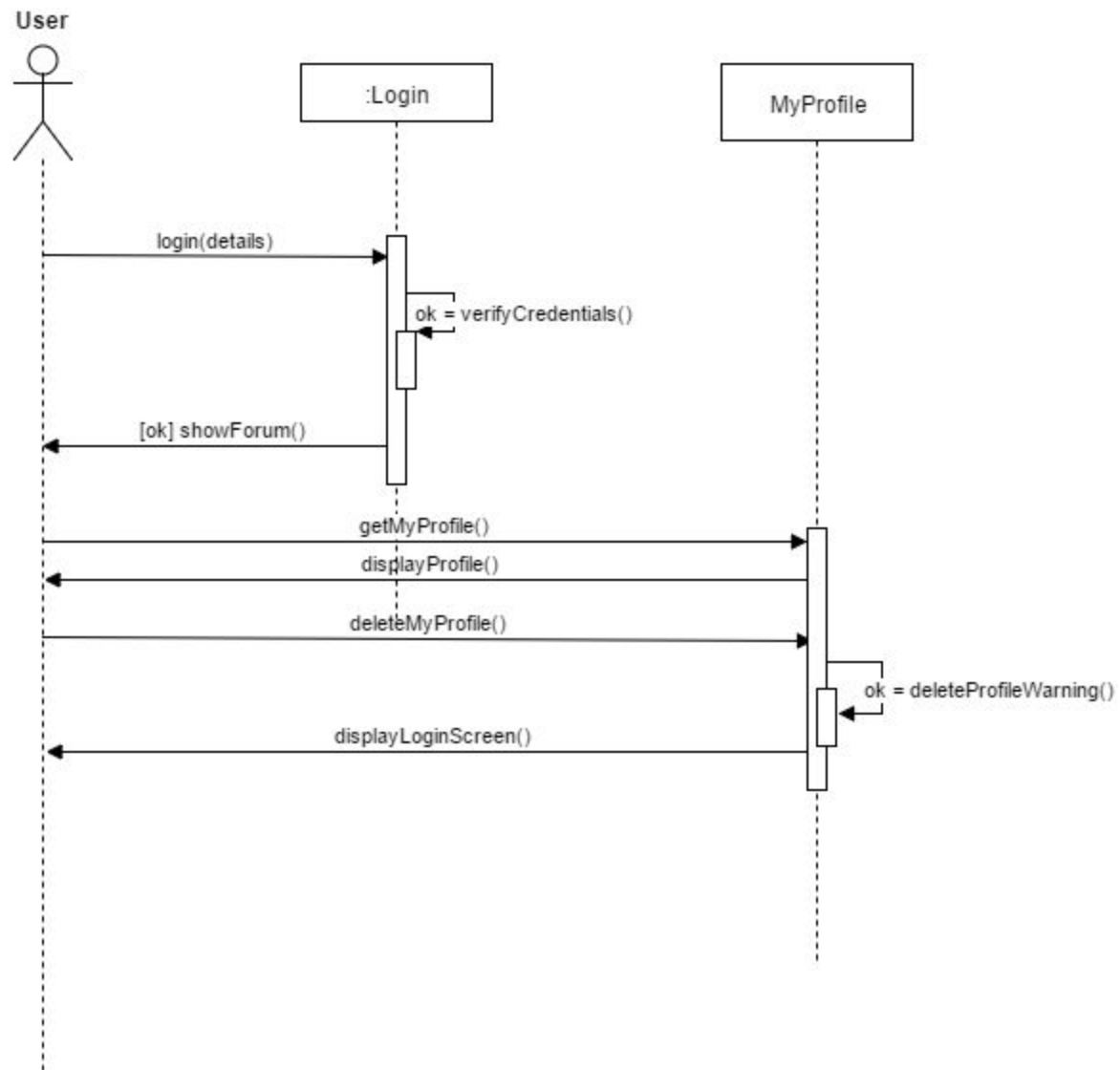
User can log into application

By Rachel Lewis

## Dylan Shepard Sequence Diagram:



## Leif Walder Sequence Diagram:



**Class Diagram:**

**mock up:**