

## CSCI 5448 Project - Part 2

### Team Members:

Yihua Shi  
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**Team #:** 29

### Project Title:

A Craigslist Like Site

### Project Summary:

What we plan to build is a simplified classified advertisements website like Craigslist with sections devoted to housing offered and wanted, items wanted and for sale. Users can create their accounts and post their needs.

### Project Requirements:

User Requirements			
ID	Description	Topic Area	Priority
US-01	User can create account.	Authentication	High
US-02	User can view postings as guest.	User Operation	High
US-03	User can sign in his account.	Authentication	High
US-04	User can post postings or save unfinished posting as draft.	User Operation	High
US-05	User can view his postings history.	User Operation	High
US-06	User can mark posting and add it to his favourite list while viewing postings.	User Operation	High
US-07	User can remove marked postings from his favourite list.	User Operation	High
US-08	User can update his postings.	User Operation	High
US-09	User can delete the postings that he posted.	User Operation	High
US-10	As a system admin, I want to see a dashboard of weekly number of postings so that I can monitor the usefulness of the system.	Web Statistics	Medium

Functional Requirements			
ID	Description	Topic Area	Priority
FR-01	When creating account, the website will provide email address and password text area for user to fill out.	Authentication	High
FR-02	When creating account, the system will check database to prevent a used email address to be registered again.	Authentication	High
FR-03	Users shall be able to view postings without login.	Posting Management	High
FR-04	The system will only allow the logged in users to publish posting.	Posting Management	High
FR-05	When a logged in user clicks "Mark" button of a post, the system will add that post to his favourite list in database.	Posting Management	High
FR-06	When a logged in user clicks the "Posting History" on dashboard page, the page will show all the postings of this user.	Posting Management	High
FR-07	The system will store the detail and category of the posting into database.	Database Operation	High
FR-08	On the "Posting History" page, the system should allow user to view, edit and delete a specific posting.	Posting Management	High
FR-09	The system should calculate and classify weekly postings for admin to view.	Web Statistics	Medium

Non-Functional Requirements			
ID	Description	Topic Area	Priority
NFR-01	The system must be connected to a relational database.	Design	High
NFR-02	The system must be written in Java.	Implementation	High
NFR-03	All forms should be validated whenever user submits the input.	Security	High

NFR-04	A user, given no instructions, should be able to complete any operation without assistance 90% of time.	Usability	Medium
NFR-05	All passwords should be at least salted and hashed.	Security	High
NFR-06	The system should be able to support at least 5,000 users accessing simultaneously.	Capacity	Medium
NFR-07	For any service, the response time should be under 5 seconds.	Performance	Medium
NFR-08	The website should be compatible with the Chrome, Safari and IE browser.	Supportability	High
NFR-09	The system should run 7 days a week, 24 hrs a day.	Reliability	High

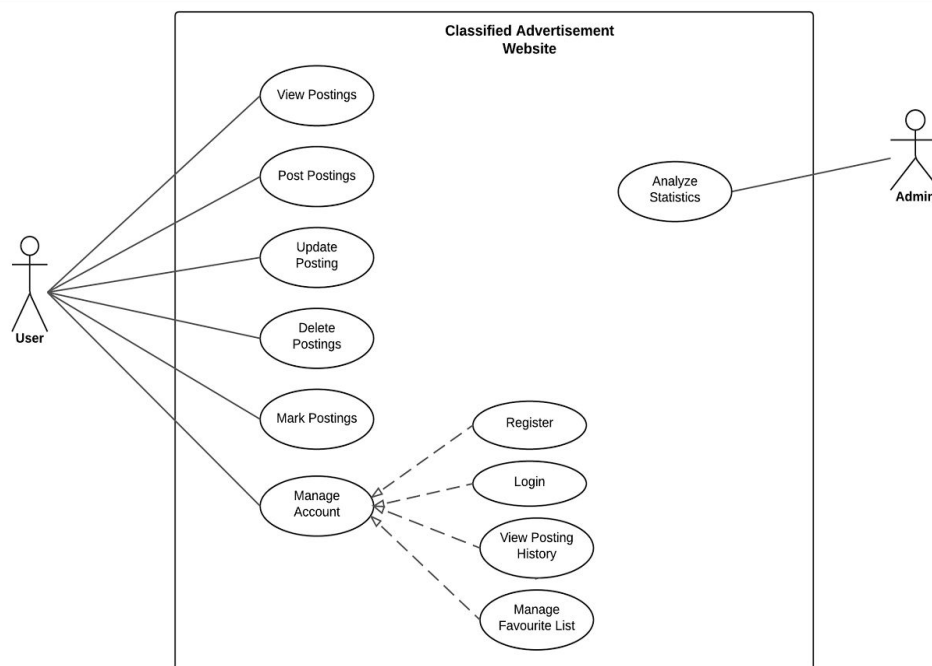
There are no business requirements for this project.

### Use Cases:

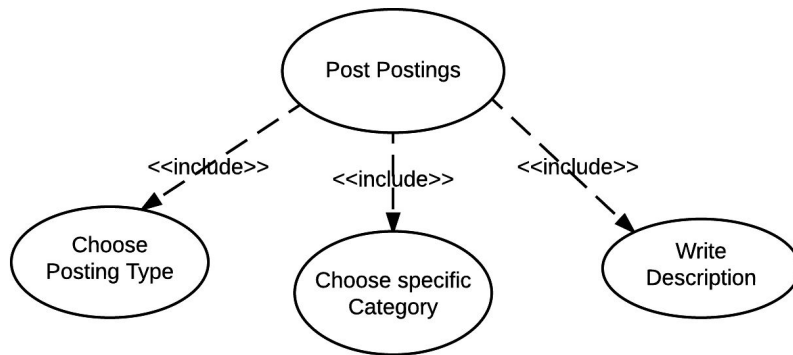
- **Actors:** Admin, users
- **Use Case Overview:**

### USE CASE DIAGRAM

Yan | October 12, 2016



- **Sub-diagram:**



- **Use Case Documents:**

<b>Use Case ID:</b>	UC-01		
<b>Use Case Name:</b>	Create Account		
<b>Description:</b>	User can create an account to access the dashboard.		
<b>Actors:</b>	User		
<b>Preconditions:</b>	User is on the home page.		
<b>Postconditions:</b>	User has his account created.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Click My Account button on home page.	Redirect to the authentication page.
	2	Fill out email address and set password.	Validate the form.
	3	Submit by clicking the Create Account button.	Notify user that the account has been successfully created
<b>Variations:</b>	2	Doesn't fill out both fields or give an invalid email address.	Display error message on the page to prompt for correction.
<b>Exceptions:</b>			
<b>Developer</b>			

<b>Notes:</b>	
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<b>Use Case ID:</b>	UC-02
<b>Use Case Name:</b>	View Posting
<b>Description:</b>	User can view one type of postings or a specific category of postings.

<b>Actors:</b>	User		
<b>Preconditions:</b>	User is on the home page. At least one posting has been published to the system.		
<b>Postconditions:</b>	User can view postings about “For Sale” or “Housing”. User can view a list of specific category of postings.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User selects desired general type of postings or the specific category of postings to view.	System loads the corresponding postings and displays them.
	2	User can view postings that he chooses.	
<b>Variations:</b>	2	No posting has been published to the system.	System notifies the user that there is no posting to show.
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-03
<b>Use Case Name:</b>	Post Posting
<b>Description:</b>	User can post posting.

<b>Actors:</b>	User
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<b>Preconditions:</b>	User is signed in to his account. User is on the home page.		
<b>Postconditions:</b>	User has his posting posted.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User clicks "Post" button to start a posting.	System displays the "Posting Type" page.
	2	Chooses the type of the posting that he wants.	System creates a new corresponding type page and displays it.
	3	Fill out all the required fields and click "Publish" button.	System checks whether the required fields have been finished.
	4	User successfully publishes the posting.	
<b>Variations:</b>	2.	User is not logged in.	System redirects to the login page.
	4.	User doesn't fill out the required fields.	System stays at that page and notifies the user "You have no published postings at this time".
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-04
<b>Use Case Name:</b>	View Posting History
<b>Description:</b>	User can view the postings that he posted.
<b>Actors:</b>	User
<b>Preconditions:</b>	User is signed in to his account. User is in his dashboard page.

<b>Postconditions:</b>	User can view postings and details that he posted.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	User clicks “Postings” icon on dashboard.	System loads all the postings that the user posted and lists them.
	2	User clicks the title of one post .	System displays the detail of that post.
	3	User can view the detail of that post.	
<b>Variations:</b>	2	No posting has been published by this user.	System notifies the user that there is no posting to show.
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-05
<b>Use Case Name:</b>	Mark Posting
<b>Description:</b>	User can mark posting and add it to his favorite list while viewing postings.

<b>Actors:</b>	User		
<b>Preconditions:</b>	User is viewing a posting and wants to add it to the favorite list. User is signed in to his account.		
<b>Postconditions:</b>	User has the watched posting added to his favorite list.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Click Favorite button on the current posting page.	Notify that user has successfully marked the

			posting.
<b>Variations:</b>	1	User is not logged in.	System redirects to the login page.
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

<b>Use Case ID:</b>	UC-06
<b>Use Case Name:</b>	Remove Marked Posting
<b>Description:</b>	User can remove marked postings from his favourite list.

<b>Actors:</b>	User		
<b>Preconditions:</b>	User is signed in to his account. User accessed his dashboard. User has at least one posting in his favorite list.		
<b>Postconditions:</b>	User has the previously marked posting removed from his favorite list.		
<b>Frequency of Use:</b>	Frequently throughout the day by users.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Choose Favorite List tab in dashboard.	Display all marked postings in a table below.
	2	Click Remove button at the end of row for the target posting.	Ask user whether he wants to remove it from the favorite list.
	3	Select Yes.	Notify that user has successfully unwatched the posting.
<b>Variations:</b>	1	No posting in the favorite list.	Notify the user that there is no posting to show.
	3	Select No.	
<b>Exceptions:</b>			



<b>Developer Notes:</b>	
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<b>Use Case ID:</b>	UC-07
<b>Use Case Name:</b>	Update Posting
<b>Description:</b>	User can update postings

<b>Actors:</b>	User		
<b>Preconditions:</b>	User is signed in to his account. User accessed his dashboard and is viewing his existing posting.		
<b>Postconditions:</b>	User has his posting updated.		
<b>Frequency of Use:</b>	Frequently throughout the day.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Click Update button in the existing posting.	Redirects to the edit posting page.
	2	Edit all fields that are desired to be updated and click Publish button.	Check if user has made any change compared to the original posting.
	3	Publish the updated posting successfully.	
<b>Variations:</b>	2	User doesn't make any change to the posting and click Publish button.	Stay at the same page and ask if user wants to cancel update.
	3	Cancel the update.	Discard any unsaved changes and return to the original posting page.
	3	Continue the update, edit all fields desired to be updated and click Publish button again.	Check if user has made any change compared to the original posting.
	4	Publish the updated posting successfully.	

<b>Exceptions:</b>	
<b>Developer Notes:</b>	

<b>Use Case ID:</b>	UC-08
<b>Use Case Name:</b>	Delete Posting
<b>Description:</b>	User can delete the postings that he posted.

<b>Actors:</b>	User		
<b>Preconditions:</b>	User is signed in to his account. User accessed his dashboard. User has posted at least one posting.		
<b>Postconditions:</b>	User has his posting deleted.		
<b>Frequency of Use:</b>	Frequently throughout the day.		
<b>Flow of Events:</b>		<b>Actor Action</b>	<b>System Response</b>
	1	Click Posting tab in dashboard.	Display all postings that the user has posted.
	2	Click Delete button at the end of row for the target posting.	Ask user whether he confirms to delete the posting.
	3	Select Yes.	Notify user that the posting has been successfully deleted.
<b>Variations:</b>	2	User doesn't have any posted posting.	Notify the user that there is no posting to show.
	3	Select No.	
<b>Exceptions:</b>			
<b>Developer Notes:</b>			

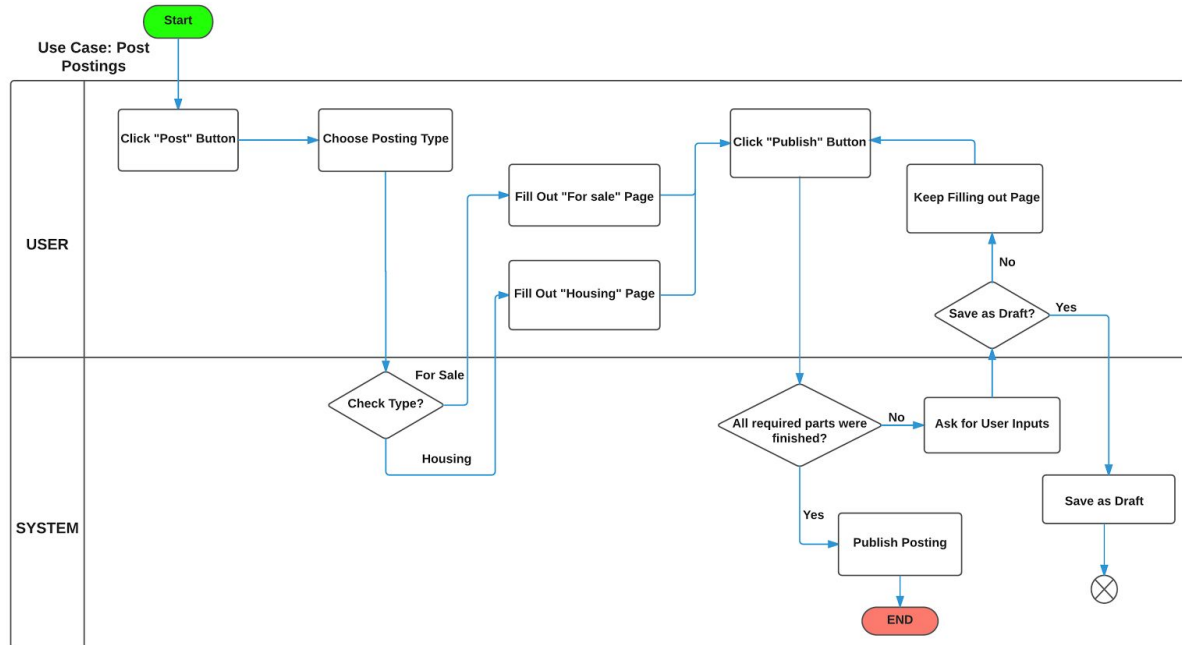
## Activity Diagrams:

1. Requirement ID: US-04

Use Case ID: UC-03

Description: Post postings

Created by: Xueyan Wu

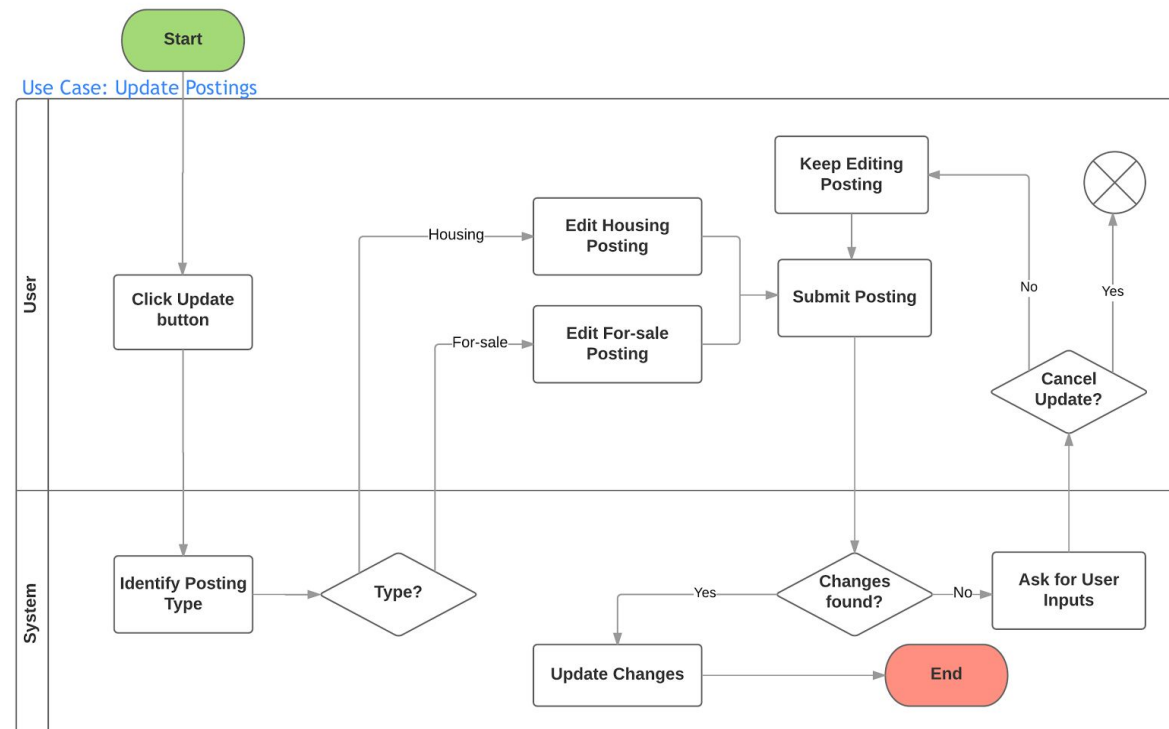


2. Requirement ID: US-08

Use Case ID: UC-07

Description: Update postings

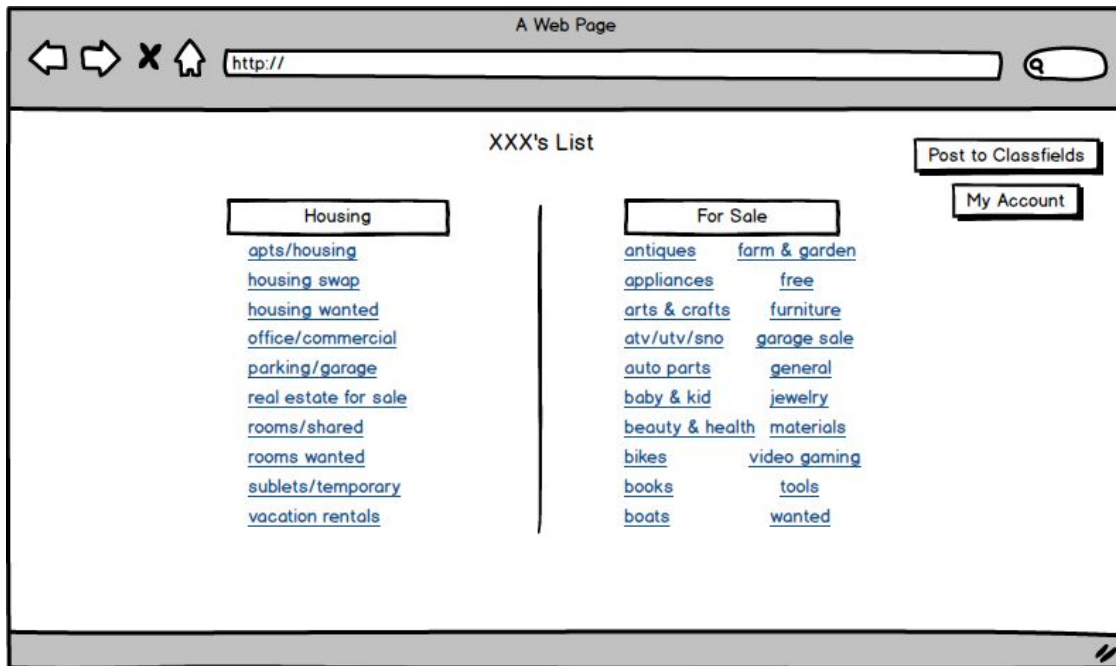
Created by: Yihua Shi



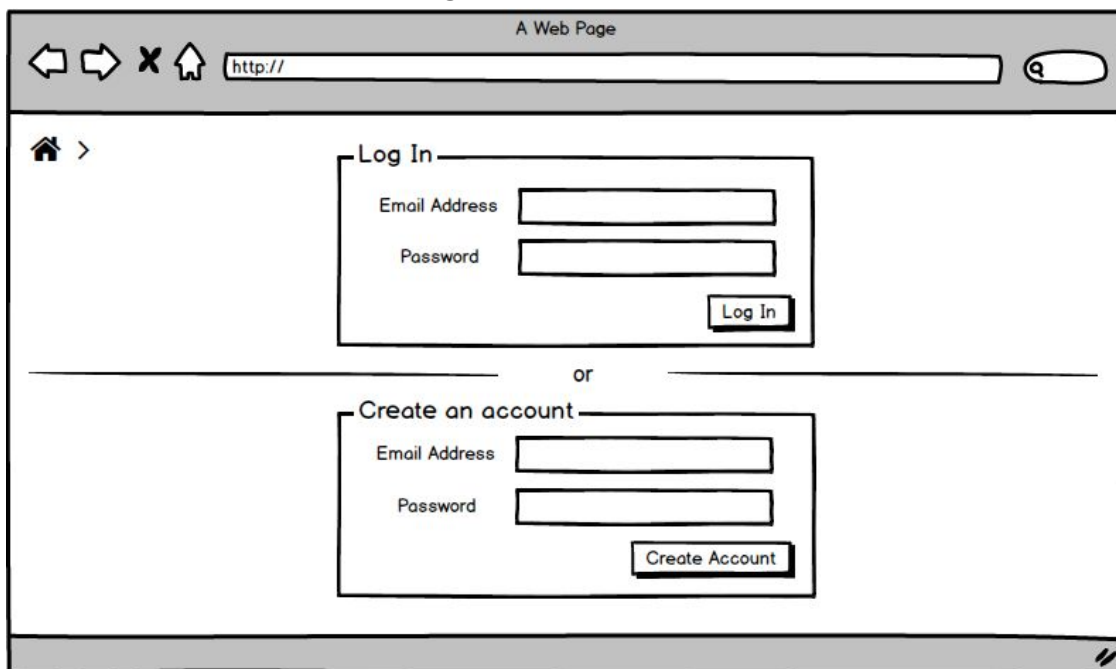
**Data Storage:** Mysql Database

**UI Mockups:**

### 1. Homepage



### 2. Authentication page



### 3. Post to classfields (select type of posting)

A Web Page

http://

My Account Log out

Please limit each posting to a single area and category:

Type of posting

☒ housing offered  
☐ housing wanted  
☐ items for sale  
☐ items wanted

Next

### 4. Post posting for housing offered

A Web Page

http://

My Account Log out

housing offered

Choose a category

- rooms & shares
- apts/housing for rent
- housing swap
- office & commercial
- parking & storage
- real estate
- sublets & temporary
- vacation rentals

Contact Info

(All messages go to the email address on your profile by default)

Users can also contact me:

☐ by phone phone number extension contact name  
☐ by text

Posting Title Postal Code

Description

Housing Details

\_\_ ft² \$ rent available on: MM/DD/YYYY \_\_ bedrooms \_\_ bathrooms

☐ Dogs Ok ☐ Cats Ok ☐ Furnished ☐ No Smoking Parking Laundry

## 5. Post posting for items for sale

A Web Page

http://

items for sale

My Account Log out

Contact Info

(All messages go to the email address on your profile by default)

Users can also contact me:

☐ by phone

☐ by text

Posting Title

Postal Code

Description

Item(s) Details

Item Name	Category	Price	Quantity	
<input type="text" value="Electric Range"/>	<input type="text" value="Appliances"/>	<input type="text" value="\$70"/>	<input type="text" value="1"/>	-
<input type="text"/>	<input type="text" value="Choose a category..."/>	<input type="text" value="\$"/>	<input type="text"/>	- +

## 6. User dashboard > Settings

A Web Page

http://

user dashboard

My Account Log out

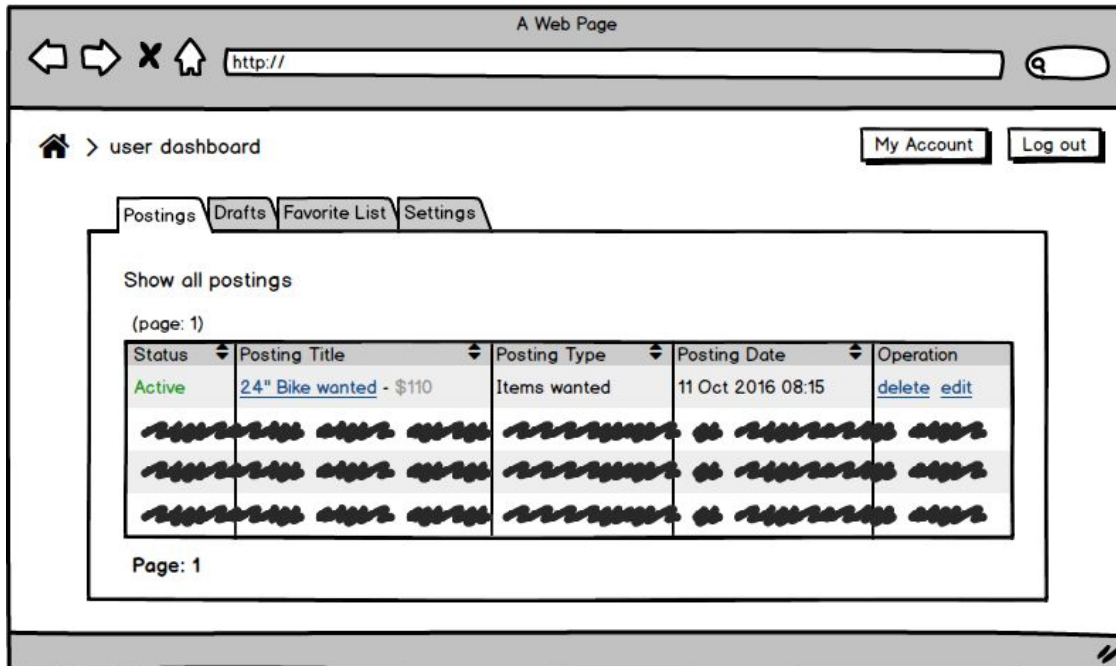
Postings Drafts Favorite List Settings

Email Address: xxx@xx.com [\[change\]](#)

Password: [\[change password\]](#)

Deactivate this account: [\[deactivate\]](#)

## 7. User dashboard > Posting history



## User Interactions:

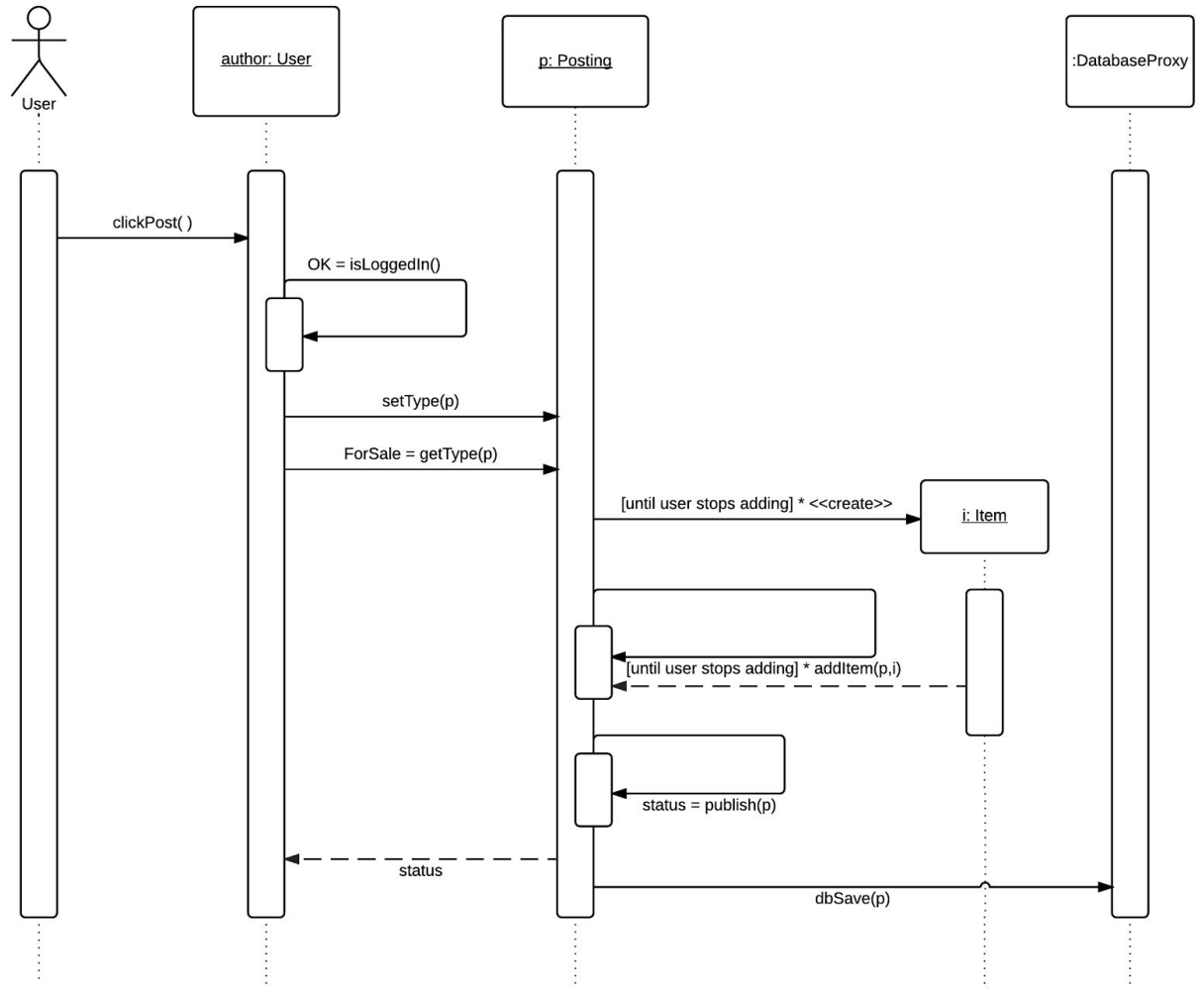
### 1. Requirement ID: US-04

Use Case ID: UC-03

Description: Post postings For Sale

Created by: Xueyan Wu

Use Case: Post Postings for Sale





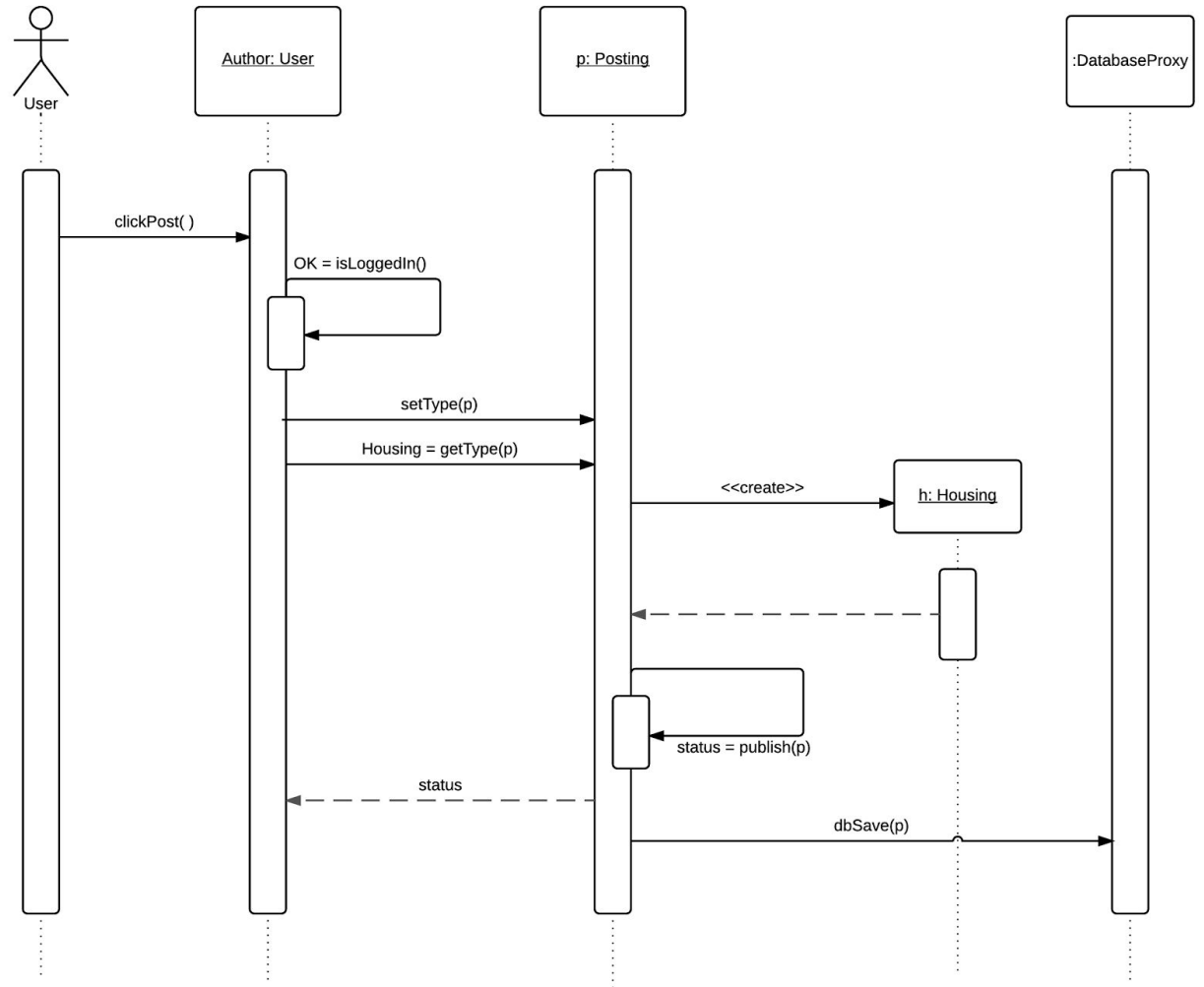
## 2. Requirement ID: US-04

Use Case ID: UC-03

Description: Post postings For Housing

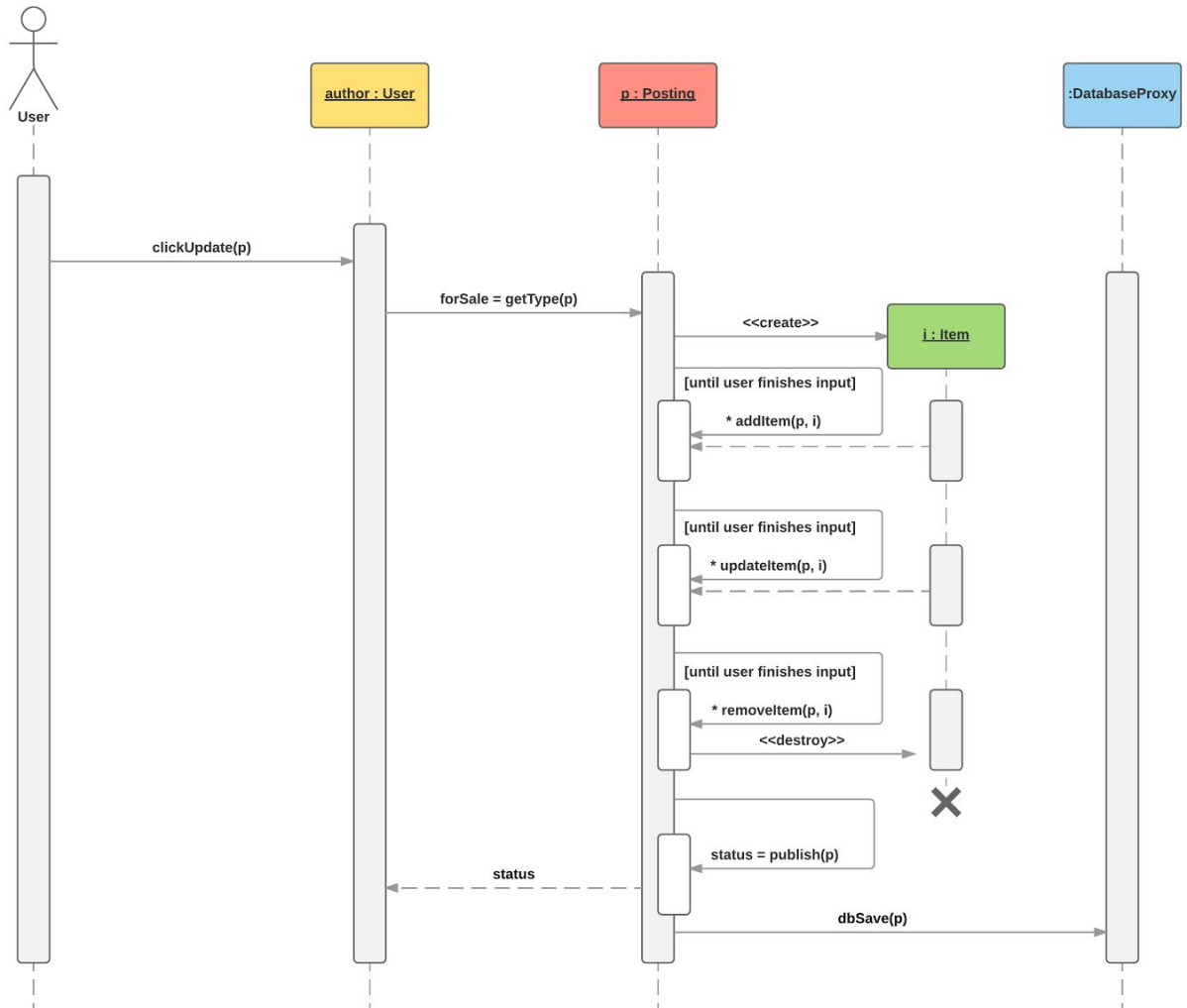
Created by: Xueyan Wu

Use Case: Post Postings for Housing



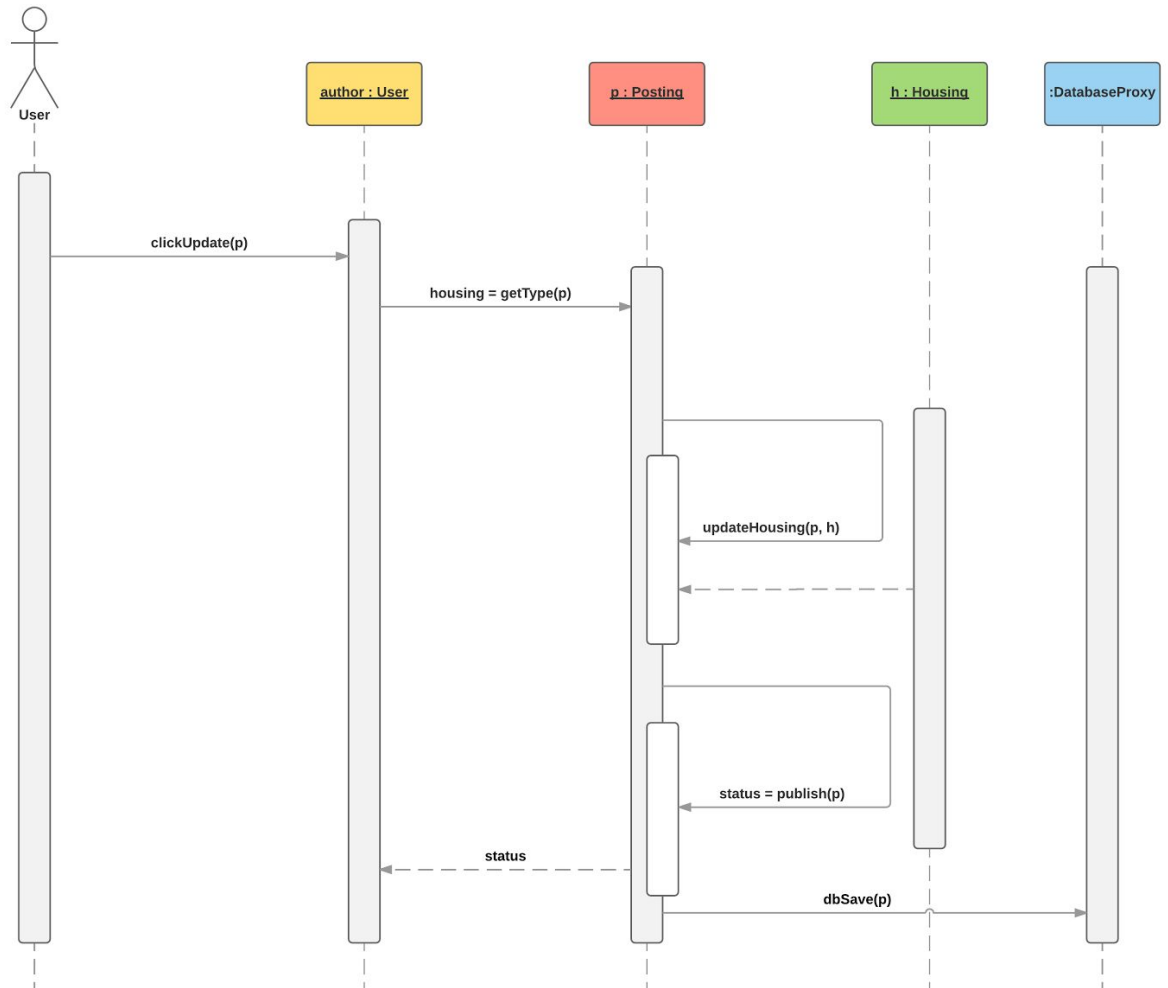
**3. Requirement ID:** US-08  
**Use Case ID:** UC-07  
**Description:** Update Postings for Sale  
**Created by:** Yihua Shi

#### Update Postings For Sale



**4. Requirement ID:** US-08  
**Use Case ID:** UC-07  
**Description:** Update Postings for Housing  
**Created by:** Yihua Shi

#### Update Postings For Housing



## Class Diagram:

