

**PubWC Help Documentation**  
CJDev

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# 1 Introduction

This document is designed to demonstrate how the PubWC app for iOS is used. This document will be updated as changes are made within the app itself.

# 2 App Help

## 2.1 Further Questions & Answers

If you have a question, problem, or suggestion that was not addressed in this document, these can be sent via email to [pubwcapp@gmail.com](mailto:pubwcapp@gmail.com). The developer will try to respond to any and all of your emails sent to this inbox.



FIGURE 2.1 - INITIAL LOGIN VIEW



FIGURE 2.2 - INITIAL REGISTRATION VIEW



FIGURE 2.3 - REGISTRATION WITH ERROR



FIGURE 2.4 - REGISTRATION SUCCESS

## 2.2 User Accounts

### 2.2.1 Registering a new account

When the user first opens the app, they will be presented with the login view shown in figure 2.1. When the *Register* button is tapped, the user will be taken to the registration view shown in figure 2.2. After filling in the text fields in figure 2.2, tapping *Register* will create a new account. If any registration data is missing or incorrect, an error message will be displayed as shown in figure 2.3 describing the registration error. Otherwise a message saying, "The user has been registered!" will be presented to the user as shown in figure 2.4.



FIGURE 2.5 - FILLED IN LOGIN VIEW

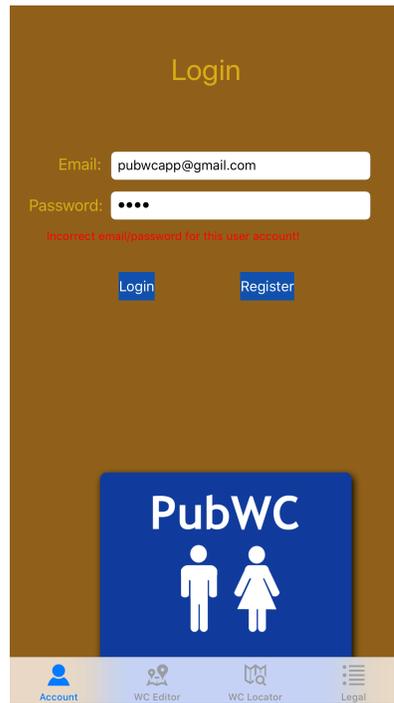


FIGURE 2.6 - LOGIN VIEW WITH ERROR

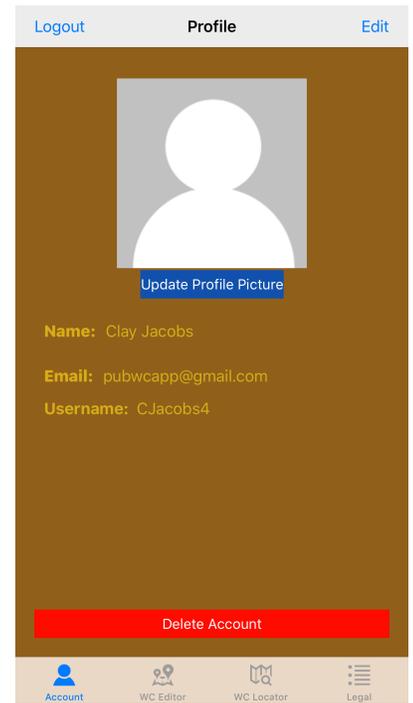


FIGURE 2.7 - INITIAL PROFILE VIEW

## 2.2.2 Logging into and out of an account

The user can access the account login view (figure 2.1) from the registration view (figure 2.2) by tapping the *Login* button, or as the initial view in the accounts section of the app if the user has not already logged in. The user can tap the *Login* button to log into their account after filling out the text fields in the login view as shown in figure 2.5. If any login information in figure 2.5 is missing or incorrect, an error message describing the problem will be presented as shown in figure 2.6. Otherwise the user will be presented with the profile view shown in figure 2.7. To log out of their account, the user can tap the *Logout* button in the top left of the profile view in figure 2.7 and be taken back to the initial login view shown in figure 2.1.

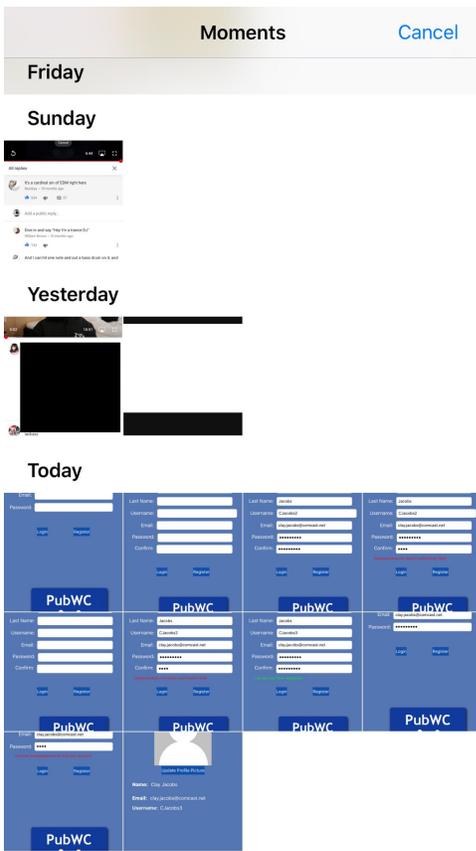


FIGURE 2.8 - PROFILE PICTURE SELECTION FROM PHOTO LIBRARY



FIGURE 2.9 - PROFILE VIEW WITH PROFILE PICTURE SELECTED

## 2.2.3 Adding a profile picture

A profile picture can be added by tapping the *Update Profile Picture* button in the profile view as seen in figure 2.7. The user may be asked for permission to access the photo library if the app has not done so already. Once granted, the user can select their desired profile picture from their photos or press cancel as shown in figure 2.8. Once a picture is selected, it will be shown in place of the default placeholder profile picture as shown in figure 2.9.

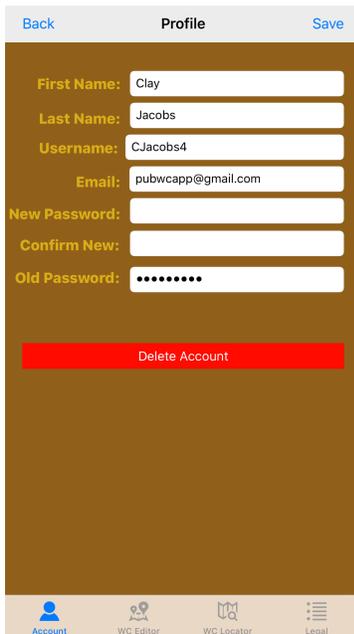


FIGURE 2.10 - INITIAL UPDATE PROFILE VIEW

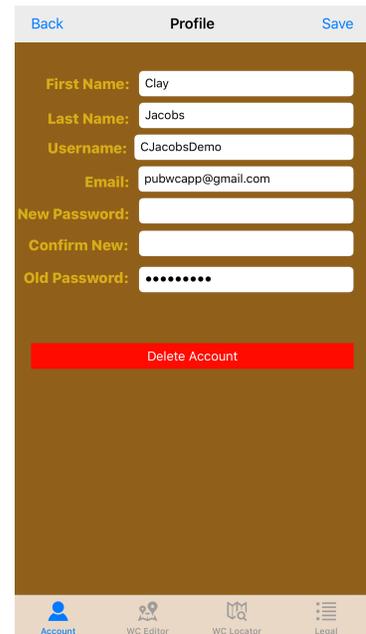


FIGURE 2.11 - FILLED IN UPDATE PROFILE VIEW

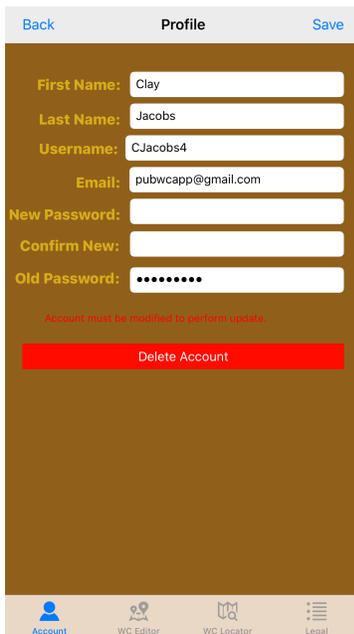


FIGURE 2.12 - UPDATE PROFILE VIEW WITH ERROR



FIGURE 2.13 - UPDATED PROFILE VIEW

## 2.2.4 Updating an account

Users can update their profile data by pressing the *Edit* button at the top right of the profile view shown in figure 2.7. The user will then be taken to the update account view shown in figure 2.10, which will already be populated with the current user account's data. After making the updates as shown in figure 2.11, the user can press the *Save* button to submit the changes or the *Back* button to cancel the update. If nothing is updated or an error in the updated data is detected, an error will be displayed as shown in figure 2.12. Otherwise the user will be returned to the updated profile view as shown in figure 2.13.

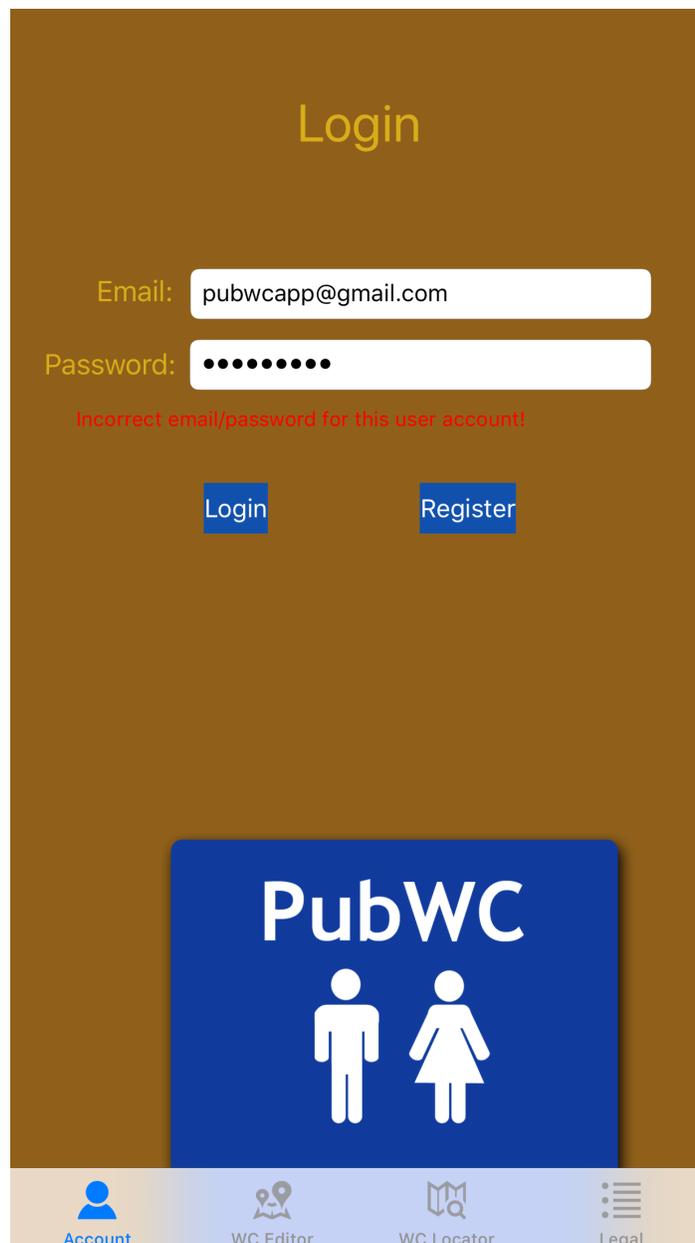


FIGURE 2.14 - ATTEMPTING LOGIN AFTER DELETING ACCOUNT

## 2.2.5 Deleting an account

The user can delete an existing account from the profile view by tapping the *Delete Account* button at the bottom of figure 2.7. This will return the user to the initial login view in figure 2.1. Attempting to log into the deleted account will now result in an error as shown in figure 2.14.

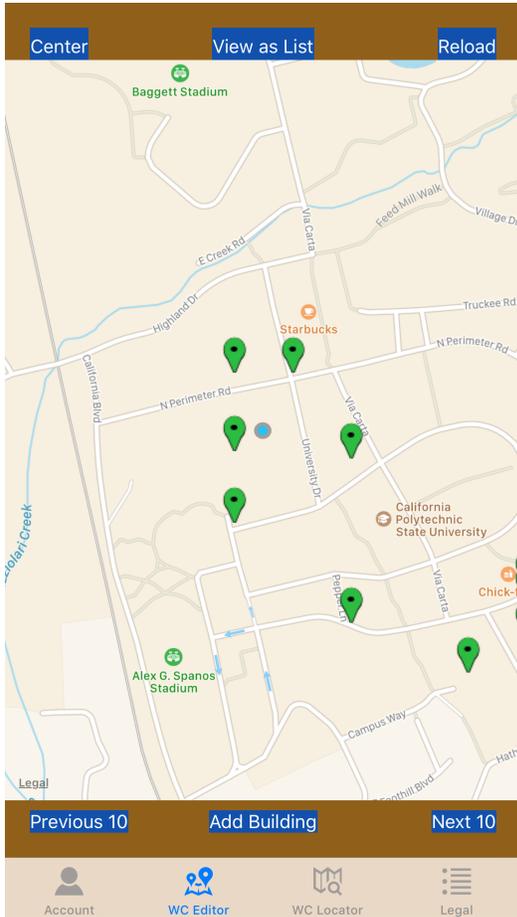


FIGURE 2.15 - BUILDING MAP VIEW

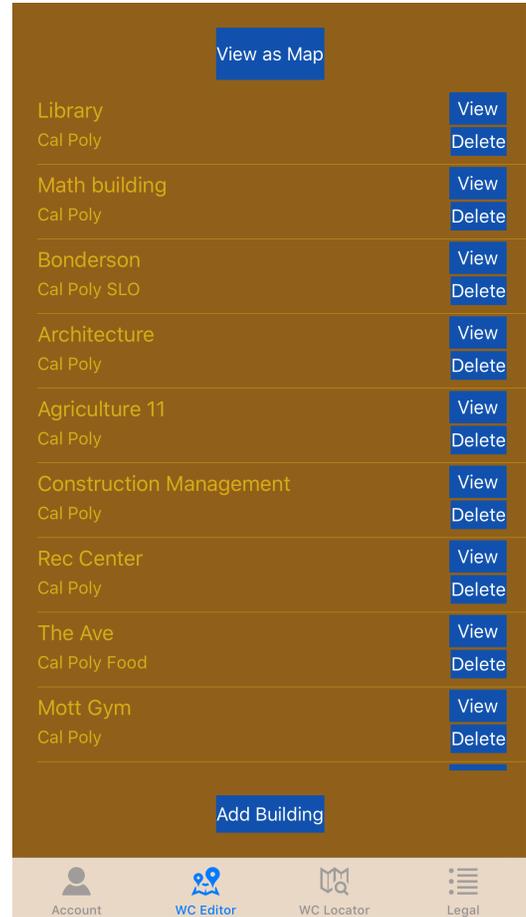


FIGURE 2.16 - BUILDING LIST VIEW

## 2.3 Bathroom and Review Creation

### 2.3.1 Viewing existing buildings

Users can view buildings for editing by navigating to the WC Editor tab in the tab bar controller. Buildings can be viewed both a map view and a list view format as shown in figure 2.15 and figure 2.16 respectively. For the building map view, the user may be asked for permission to access the users current location if the app has not done so already. Users can navigate between the two views by tapping the *View as List* button in figure 2.15 and the *View as Map* button in figure 2.16. The grey and blue dot in the map view shows the users current location while the green map icons show the locations of bathrooms on the map. The *Center* button in the top left of the buildings map view in figure 2.15 will center the map view on the users current location if this is no longer the case. The *Reload* button in the top right of the buildings map view in figure 2.15 will reload the bathroom data from the server and refresh the map view if needed. Both the building map view and building list view will only load the 10 nearest bathrooms first. To view more bathrooms, the *Next 10* and *Previous 10* buttons can be used to navigate search results in the map view seen in figure 2.15. A *Load more cells* button can be tapped to load an additional 10 buildings in the list view seen in figure 2.16.

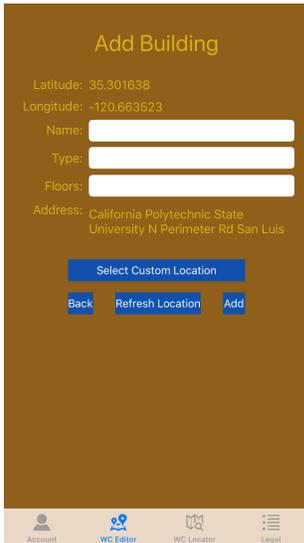


FIGURE 2.17 - INITIAL ADD BUILDING VIEW

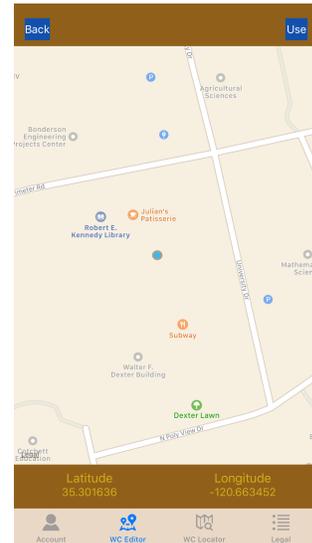


FIGURE 2.18 - SELECT CUSTOM LOCATION VIEW

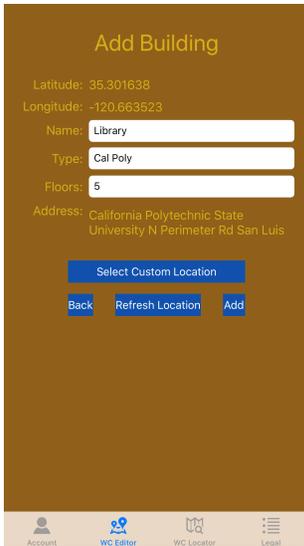


FIGURE 2.19 - FILLED IN ADD BUILDING VIEW

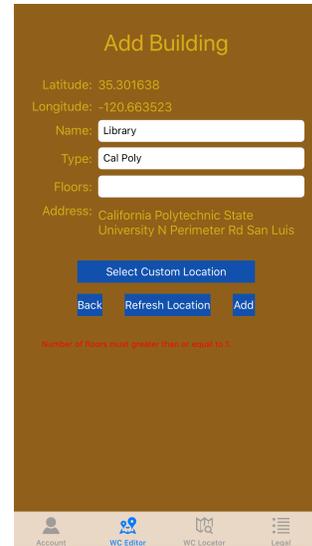


FIGURE 2.20 - ADD BUILDING VIEW WITH ERROR

## 2.3.2 Adding a building

A new building can be added as a logged in user by tapping the *Add Building* button from the building map view in figure 2.15 or the building list view in figure 2.16. The user will be taken to the add building view shown in figure 2.17. The default latitude and longitude and the ones used when the *Refresh Location* button in figure 2.17 is tapped correspond to the user's current location. When the *Select Custom Location* button is tapped the user is taken to the custom location selection view shown in figure 2.18. The latitude and longitude coordinated values at the bottom of figure 2.18 in the map view represent the custom location that will be used for the new building once the *Use* button is tapped. The custom location is the location at the center of the current map view region. When all the building data is filled in as shown in figure 2.19, the user can tap the *Add* button to create a new building. If any data is missing or incorrect in figure 2.19 an error will be displayed describing the error as shown in figure 2.20. Otherwise the user will be taken back to the updated originating view, either the building map view in figure 2.15 or the building list view in figure 2.16.

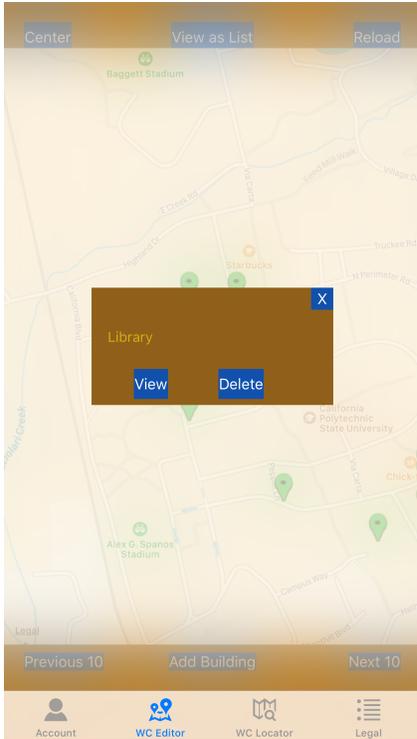


FIGURE 2.21 - BUILDING DETAIL VIEW OVERLAY

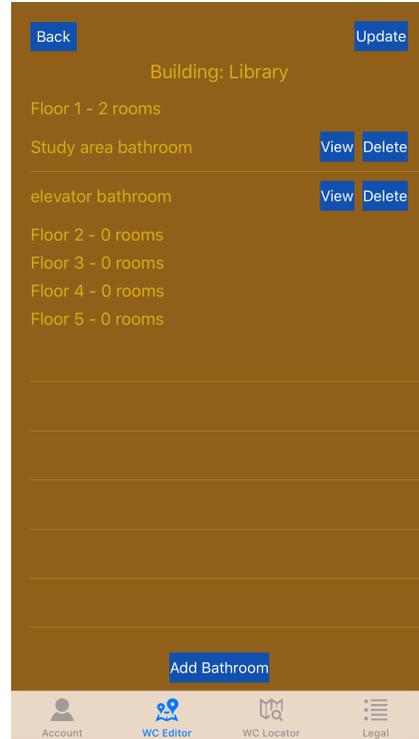


FIGURE 2.22 - CURRENT BUILDING VIEW

### 2.3.3 Viewing existing bathrooms

Bathrooms can be viewed within the WC Editor tab as part of the building view. From the building map view in figure 2.15, tapping the map icon for the building in question will show a new overlay view for the building as shown in figure 2.21. When the *View* button in figure 2.21 is tapped, the user will be taken to the corresponding building view shown in figure 2.22. From the building list view in figure 2.16, tapping the *View* button for the building in question will navigate to the corresponding building view shown in figure 2.22. The building view shows the name of the current building as well as a list of the bathrooms in that building organized by floor.

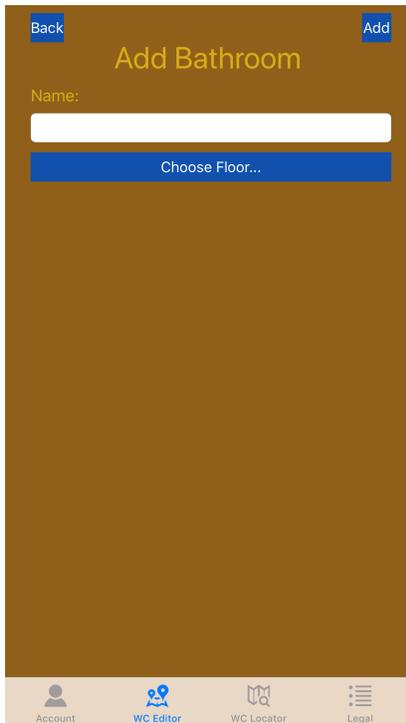


FIGURE 2.23 - INITIAL ADD BATHROOM VIEW

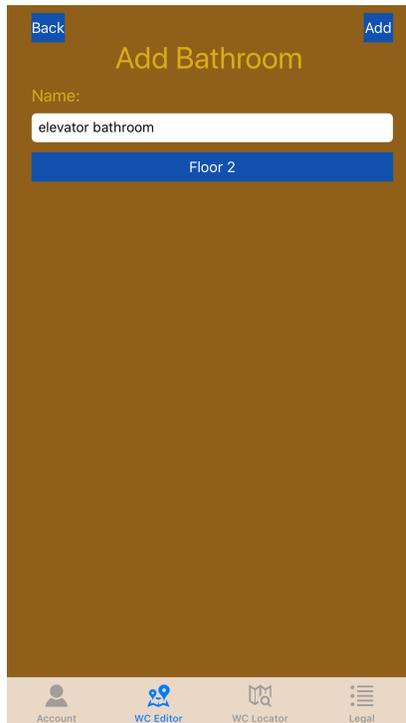


FIGURE 2.24 - FILLED IN ADD BATHROOM VIEW

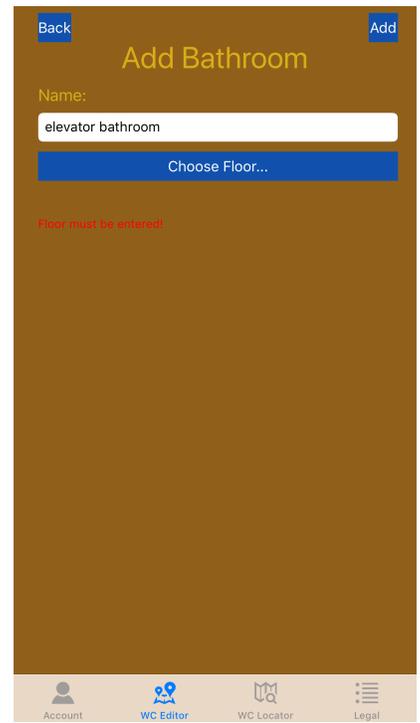


FIGURE 2.25 - ADD BATHROOM VIEW WITH ERROR

## 2.3.4 Adding a bathroom

A new bathroom can be added as a logged in user by tapping the *Add Bathroom* button at the bottom of the current building view as shown in figure 2.22. The user will be taken to the add bathroom view shown in figure 2.23. After filling out the fields and selecting from the dropdown menus in the add bathroom view, the user can tap the *Add* button to create the new bathroom as shown in figure 2.24. If any data is missing or incorrect in figure 2.24 an error will be displayed describing the error as shown in figure 2.25. Otherwise the user will be taken back to the updated originating building view from figure 2.22.



FIGURE 2.26 - BATHROOM AMENITIES VIEW

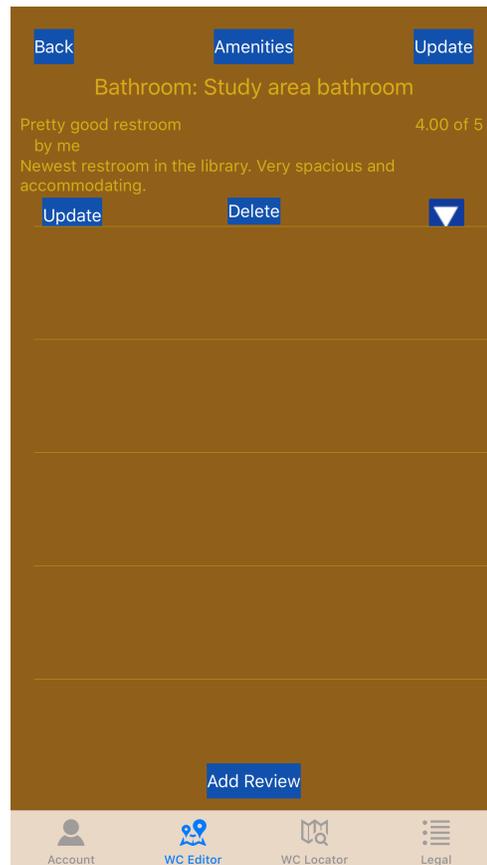


FIGURE 2.27 - BATHROOM REVIEWS VIEW

## 2.3.5 Viewing existing amenities and reviews

Amenities and reviews can be viewed within the WC Editor tab in the bathroom amenities view and bathroom reviews view respectively. From the building view in figure 2.22, tapping the *View* button for the bathroom in question will navigate to the bathroom amenities view as shown in figure 2.26 or the bathroom reviews view as shown in figure 2.27 for the bathroom in question. Both views will show the name of the current bathroom at the top of the view. To navigate between both views, the user can tap the *Reviews* button in figure 2.26 and the *Amenities* button in figure 2.27. To view all of a longer review, tap the down arrow button on the right under the review as shown in figure 2.27.

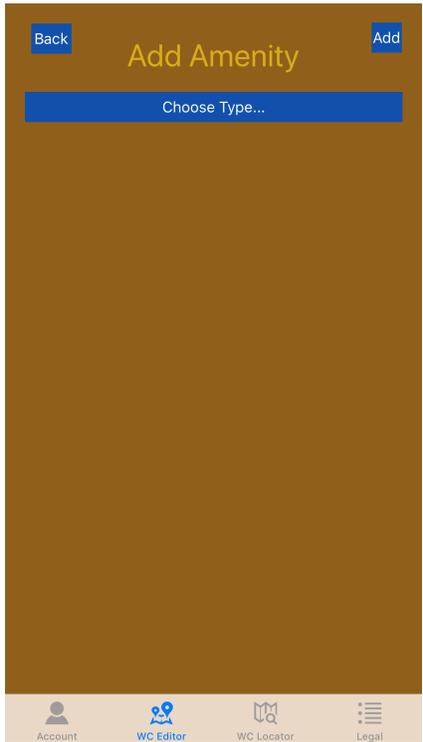


FIGURE 2.28 - INITIAL ADD AMENITY VIEW

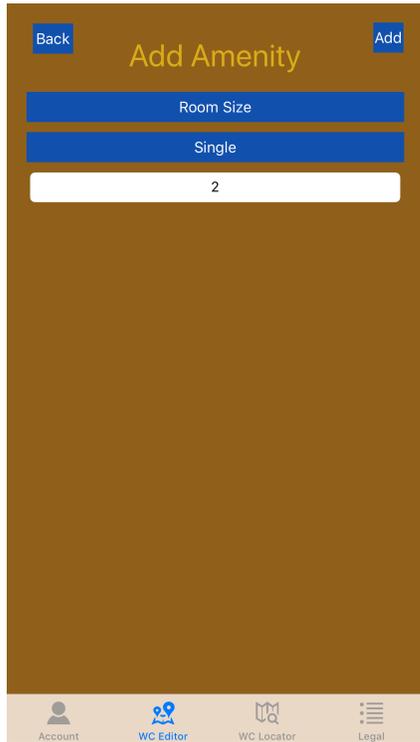


FIGURE 2.29 - FILLED IN ADD AMENITY VIEW

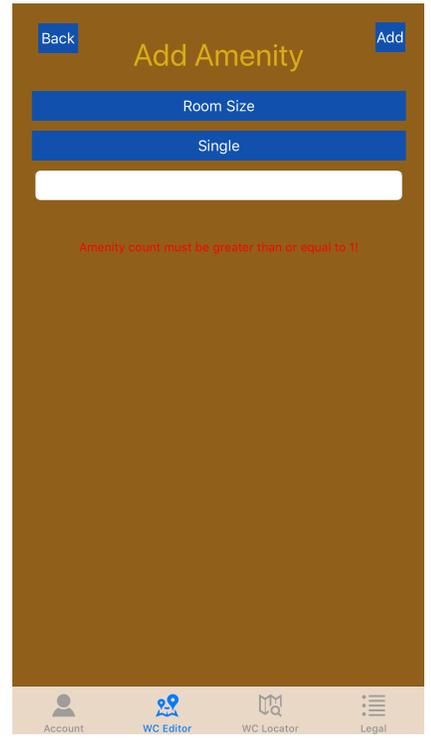


FIGURE 2.30 - ADD AMENITY VIEW WITH ERROR

## 2.3.6 Adding an amenity

A new amenity can be added as a logged in user by tapping the *Add Amenity* button at the bottom of the bathroom amenities view as shown in figure 2.26. The user will be taken to the add amenity view shown in figure 2.28. The next fields on this page will appear after the previous field has been set to a value on this page. After filling out the fields and selecting from the dropdown menus in the add amenity view, the user can tap the *Add* button to create the new amenity as shown in figure 2.29. If any data is missing or incorrect in figure 2.29 an error will be displayed describing the error as shown in figure 2.30. Otherwise the user will be taken back to the updated originating bathroom amenities view from figure 2.26.

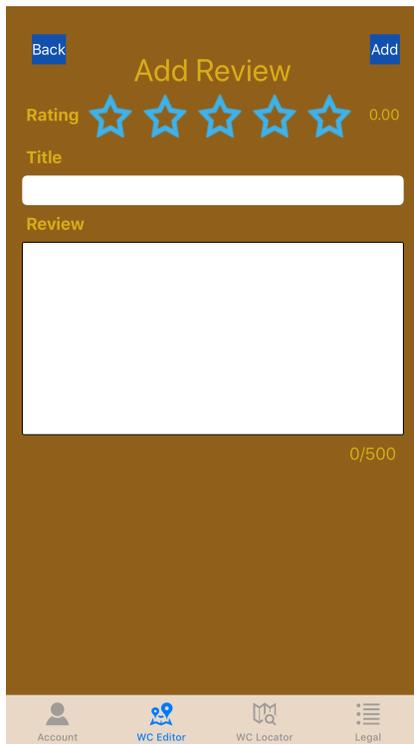


FIGURE 2.31 - INITIAL ADD REVIEW VIEW

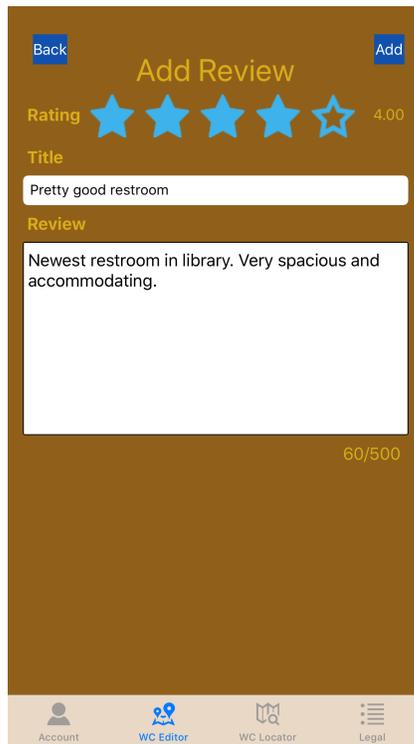


FIGURE 2.32 - FILLED IN ADD REVIEW VIEW



FIGURE 2.33 - ADD REVIEW VIEW WITH ERROR

## 2.3.7 Adding a review

A new review can be added as a logged in user by tapping the *Add Review* button at the bottom of the originating bathroom reviews view as shown in figure 2.27. The user will be taken to the add review view shown in figure 2.31. After filling out the fields add review view, the user can tap the *Add* button to create the new review as shown in figure 2.32. If any data is missing or incorrect in figure 2.32 an error will be displayed describing the error as shown in figure 2.33. Otherwise the user will be taken back to the updated originating bathroom reviews view from figure 2.27.

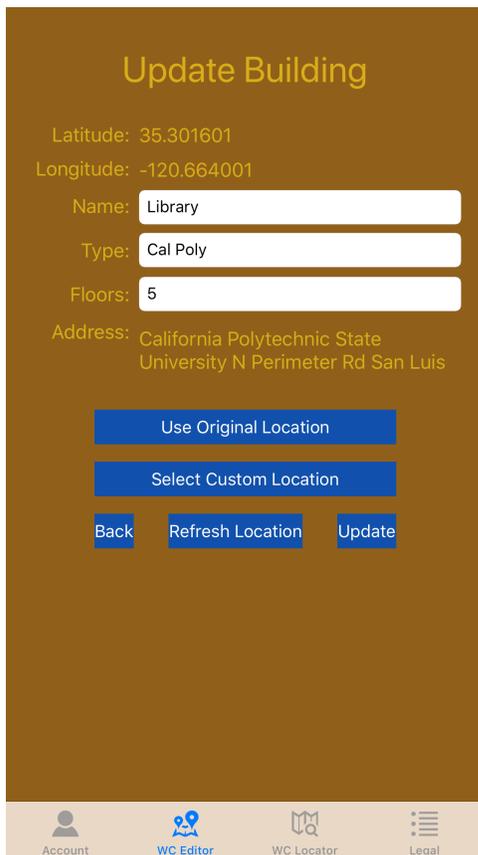


FIGURE 2.34 - INITIAL UPDATE BUILDING VIEW

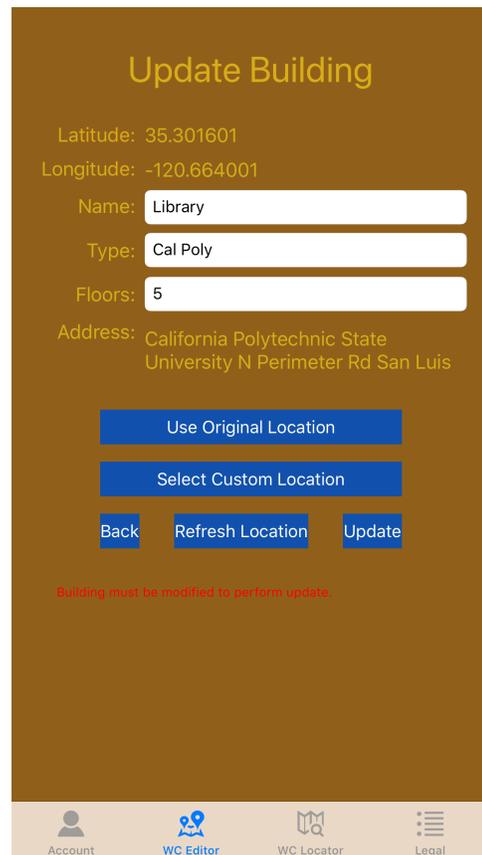


FIGURE 2.35 - UPDATE BUILDING VIEW WITH ERROR

## 2.4 Bathroom and Review Editing

### 2.4.1 Updating a building

Buildings can be updated as a logged in user by tapping the *Update* button at the top right of the current building view as shown in figure 2.22. The user will be taken to the update building view filled out with the current building data filled in as shown in figure 2.34. The *Use Original Location* button in figure 2.34 will set the location to the location the building currently is currently associated with as opposed to the user's current location. Once the updates have been made, the user can press the *Update* button to perform the update. If no updates have been made, an error will be displayed to that effect as shown in figure 2.35. Otherwise the user will be returned to the updated originating current building view as shown in figure 2.22.

### 2.4.2 Deleting a building

A building can be deleted as a logged in user from either the building map view in figure 2.15 or the building list view in figure 2.16. From the building map view in figure 2.15, tapping the map icon for the building in question will show a new overlay view for the building as shown in figure 2.21. When the *Delete* button in figure 2.21 is tapped, the building will be deleted. From the building list view in figure 2.16, tapping the *Delete* button for the building in question will perform the deletion.

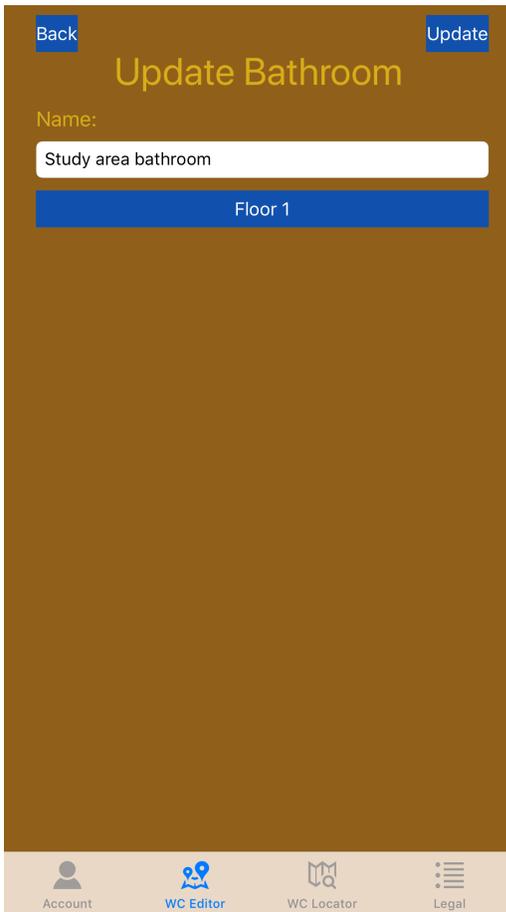


FIGURE 2.36 - INITIAL UPDATE BATHROOM VIEW

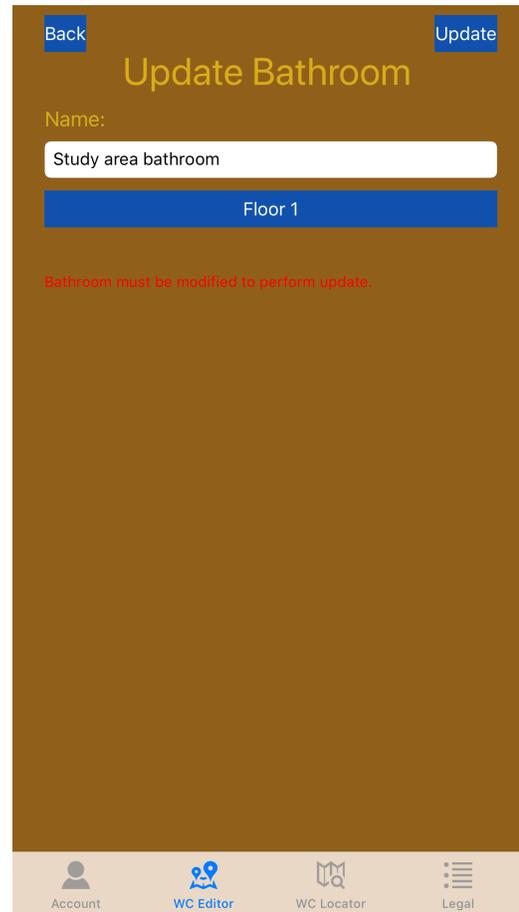


FIGURE 2.37 - UPDATE BATHROOM VIEW WITH ERROR

## 2.4.3 Updating a bathroom

A bathroom can be updated as a logged in user from either the bathroom amenities view in figure 2.26 or the bathroom reviews view in figure 2.27 by pressing the *Update* button in the top right of the screen. The user will be taken to the update bathroom view filled out with the current bathroom data filled in as shown in figure 2.36. Once the updates have been made, the user can press the *Update* button to perform the update. If no updates have been made, an error will be displayed to that effect as shown in figure 2.37. Otherwise the user will be returned to the updated originating bathroom amenities view from figure 2.22 or in figure 2.26 or bathroom reviews view in figure 2.27.

## 2.4.4 Deleting a bathroom

A bathroom can be deleted as a logged in user by tapping the *Delete* button for the bathroom in question from the current building view as shown in figure 2.22.



FIGURE 2.38 - INITIAL UPDATE AMENITY VIEW

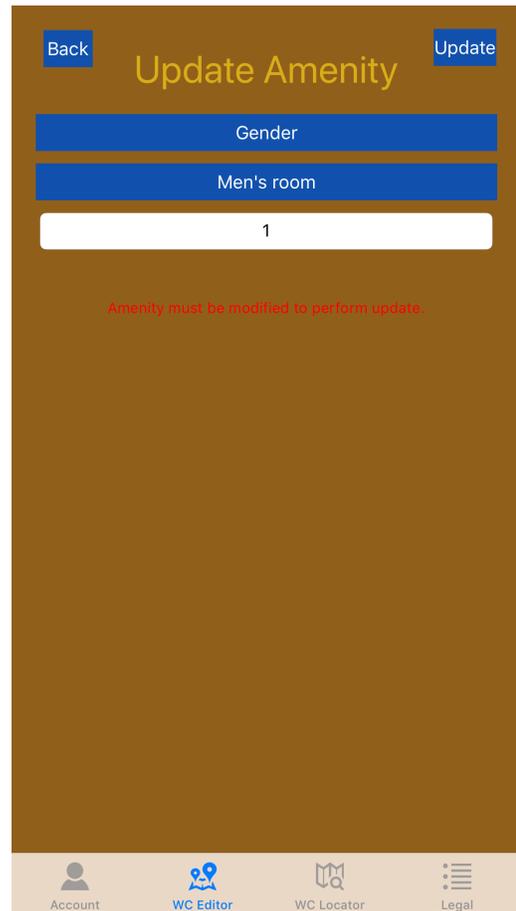


FIGURE 2.39 - UPDATE AMENITY VIEW WITH ERROR

## 2.4.5 Updating an amenity

An amenity can be updated as a logged in user by tapping the *Update* button for the amenity in question from the bathroom amenities view as shown in figure 2.26. The user will be taken to the update amenity view with the current amenity data filled in as shown in figure 2.38. Once the updates have been made, the user can press the *Update* button to perform the update. If no updates have been made, an error will be displayed to that effect as shown in figure 2.39. Otherwise the user will be returned to the updated originating bathroom amenities view from figure 2.26.

## 2.4.6 Deleting an amenity

An amenity can be deleted as a logged in user by tapping the *Delete* button for the amenity in question from the bathroom amenities view as shown in figure 2.26.

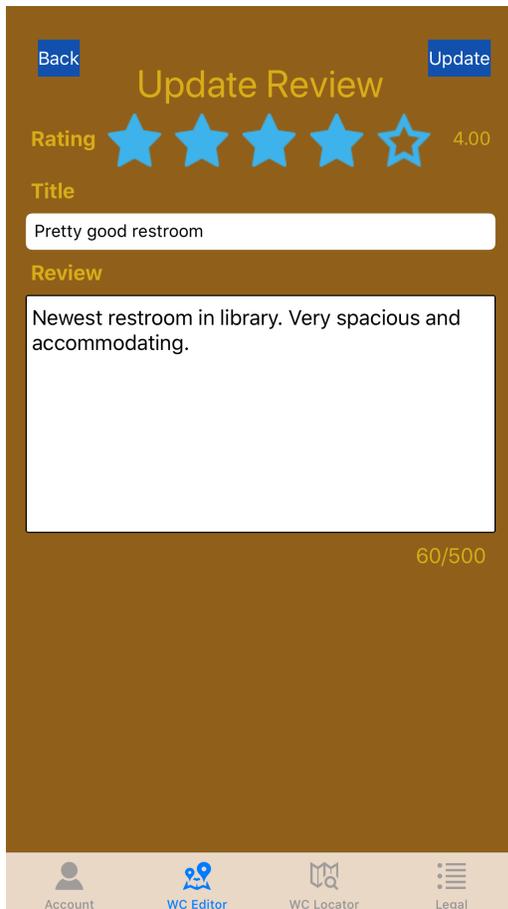


FIGURE 2.40 - INITIAL UPDATE REVIEW VIEW

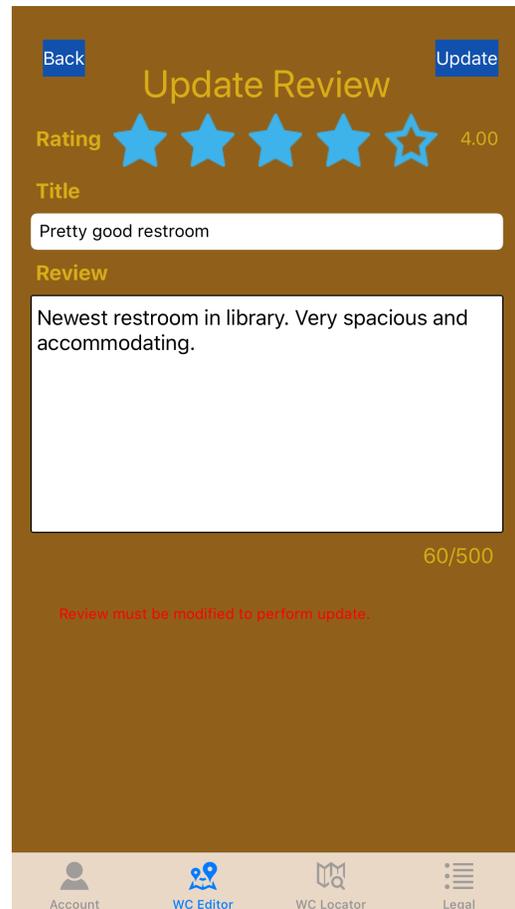


FIGURE 2.41 - UPDATE REVIEW VIEW WITH ERROR

## 2.4.7 Updating a review

A review can be updated as a logged in user by tapping the *Update* button for the amenity in question from the bathroom reviews view as shown in figure 2.26. The user will be taken to the update review view with the current review data filled in as shown in figure 2.40. Once the updates have been made, the user can press the *Update* button to perform the update. If no updates have been made, an error will be displayed to that effect as shown in figure 2.41. Otherwise the user will be returned to the updated originating bathroom amenities view from figure 2.26.

## 2.4.8 Deleting a review

A review can be deleted as a logged in user by tapping the *Delete* button for the review in question from the bathroom reviews view as shown in figure 2.27.

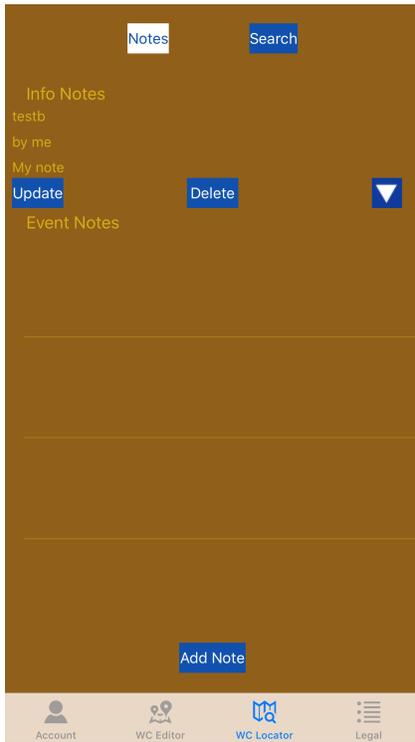


FIGURE 2.42 - NOTES VIEW



FIGURE 2.43 - BATHROOM SEARCH VIEW

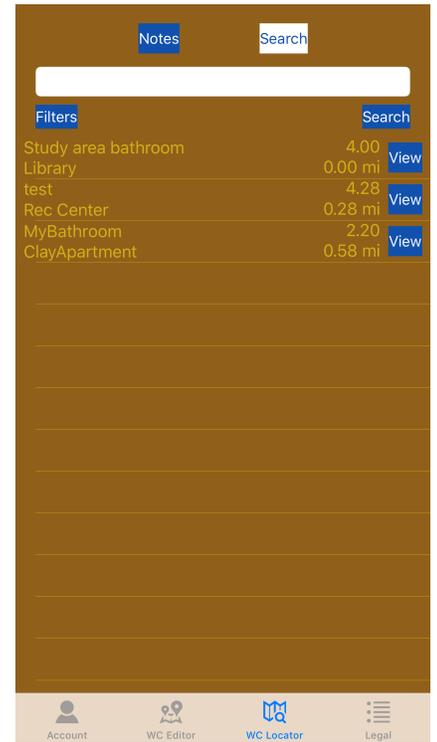


FIGURE 2.44 - BATHROOM SEARCH VIEW WITH SEARCH RESULTS

## 2.5 Finding Bathroom

### 2.5.1 Searching for bathrooms

The search bathrooms view provides an easy way to search for bathrooms and can be accessed via the WC Locator tab. Initially the user will be presented with the notes view shown in figure 2.42. The user can press the *Search* button at the top of figure 2.42 to navigate to the search view shown in figure 2.43. By default, search will be in a radius of 1 mile from the user's current location, nearest to farthest, and search on bathroom name. The user can search by pressing the *Search* button under the search bar as shown in figure 2.44.

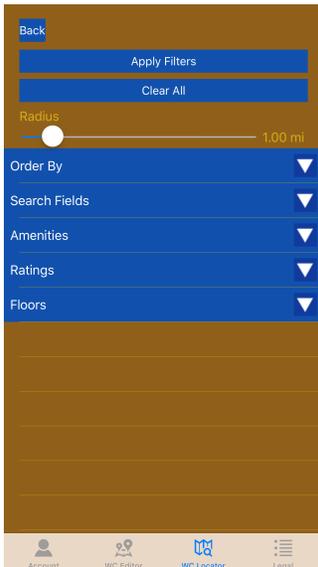


FIGURE 2.45 - APPLY FILTERS VIEW

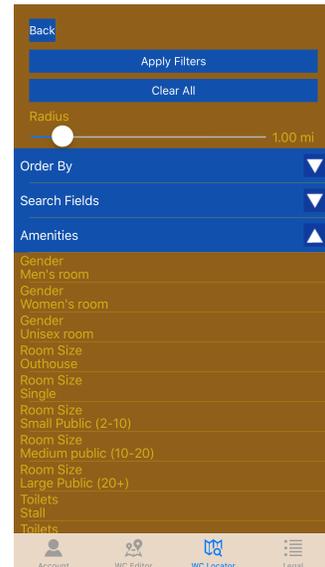


FIGURE 2.46 - APPLY FILTERS VIEW WITH FILTER SECTION EXPANDED



FIGURE 2.47 - APPLY FILTERS VIEW WITH FILTER SELECTED

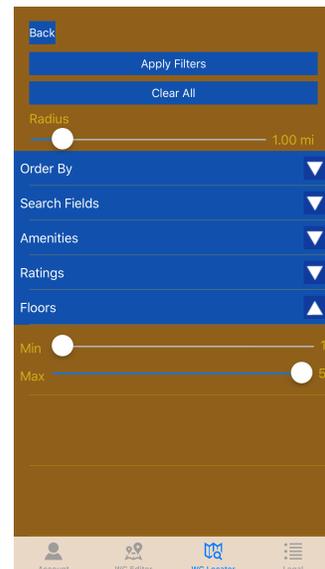


FIGURE 2.48 - APPLY FILTERS VIEW WITH RANGE FILTER

## 2.5.2 Using search filters

Search filters can be accessed via the *Filters* button in the search bathrooms view in figure 2.43. The user will be taken to the apply filters view shown in figure 2.45. Filter sections can be viewed and hidden as shown between figures 2.45 and 2.46. A filter option will have a blue checkmark next to it if it is selected as shown in figure 2.47. The floors and ratings filters are both range filters and are shown in figure 2.48. The *Apply Filters* button sets the current set of filters to those used in the search bathrooms view and returns the user to the search bathrooms view as shown in figure 2.43. The *Clear All* button clears all current filters to the default search filter state.



FIGURE 2.49 - BATHROOM SEARCH RESULT SUMMARY VIEW

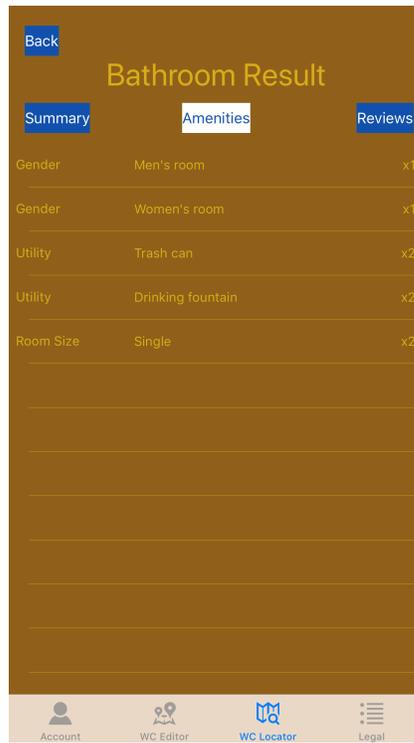


FIGURE 2.50 - BATHROOM SEARCH RESULT AMENITIES VIEW

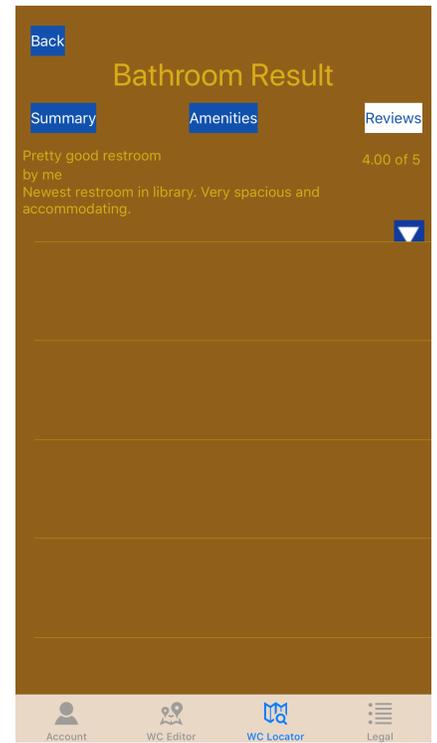


FIGURE 2.51 - BATHROOM SEARCH RESULT REVIEWS VIEW

## 2.5.3 Viewing search results

Bathroom search results can be viewed after performing a search as shown in figure 2.44. An individual bathroom search result can be viewed by pressing the *View* button for the search result in question. The user will be taken to the bathroom search results info view as shown in figure 2.49. The user can also view the bathroom's associated amenities and reviews by tapping the corresponding buttons as shown in figures 2.50 and 2.51.

## 2.6 Notes

### 2.6.1 Viewing existing notes

Notes are posts users can make about bathrooms separate from the bathrooms themselves. Notes can be viewed via the WC Locator tab. The notes list view is the initial view presented in the WC Locator tab as shown in figure 2.42. The notes list view is divided into two sections: info notes and event notes. Info notes are general notes about anything. Event notes are specifically meant for event related bathroom information.

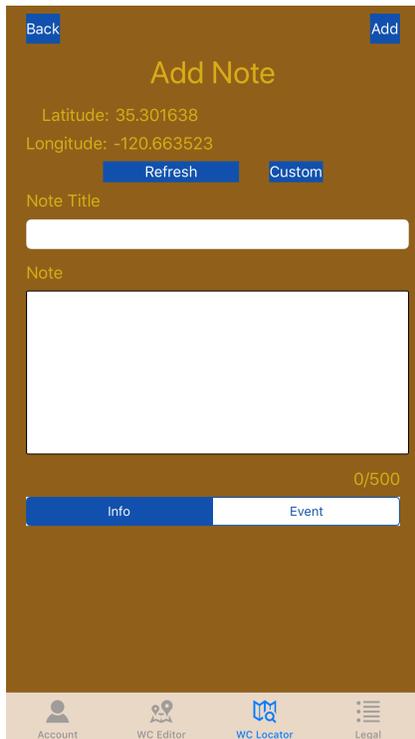


FIGURE 2.52 - INITIAL ADD NOTE VIEW

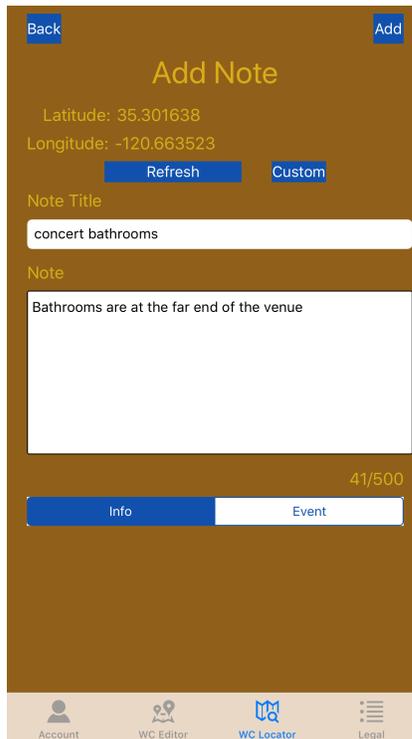


FIGURE 2.53 - FILLED IN ADD NOTE VIEW

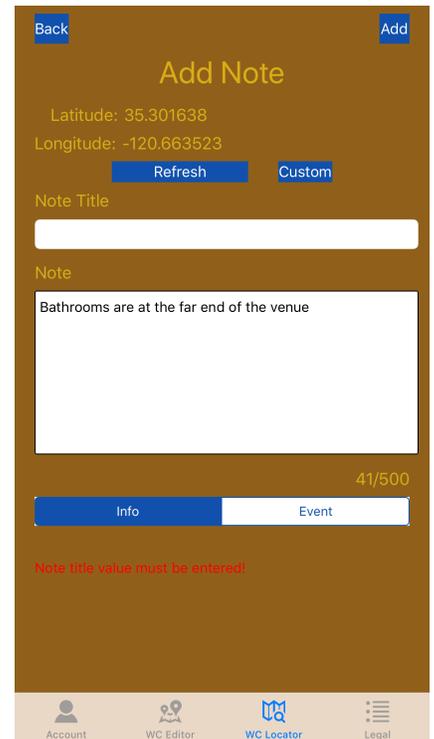


FIGURE 2.54 - ADD NOTE VIEW WITH ERROR

## 2.6.2 Adding a note

Notes can be added as a logged in user by tapping the *Add Note* button in the notes list view in figure 2.42. The user will then be taken to the add note view shown in figure 2.52. After filling out the fields in the add note view, the user can tap the *Add* button to create the new note as shown in figure 2.53. If any data is missing or incorrect in figure 2.53 an error will be displayed describing the error as shown in figure 2.54. Otherwise the user will be taken back to the updated originating building view from figure 2.42.

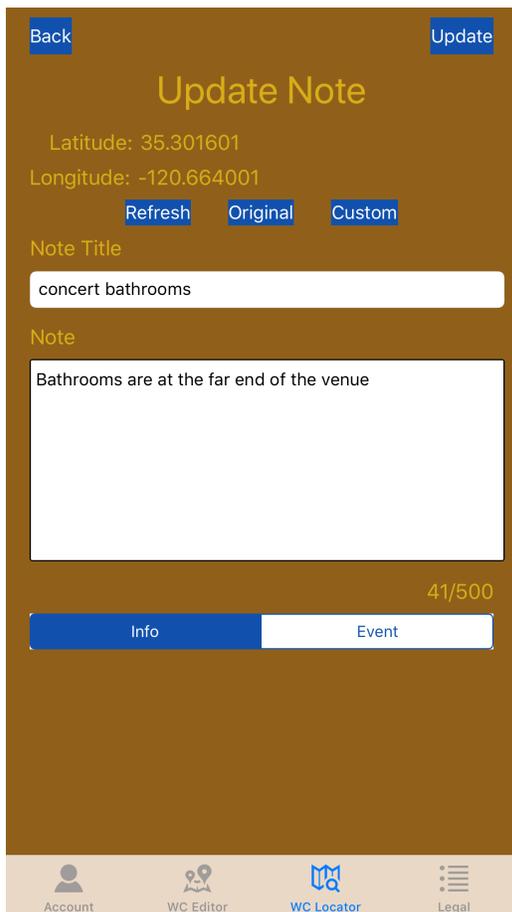


FIGURE 2.55 - INITIAL UPDATE NOTE VIEW

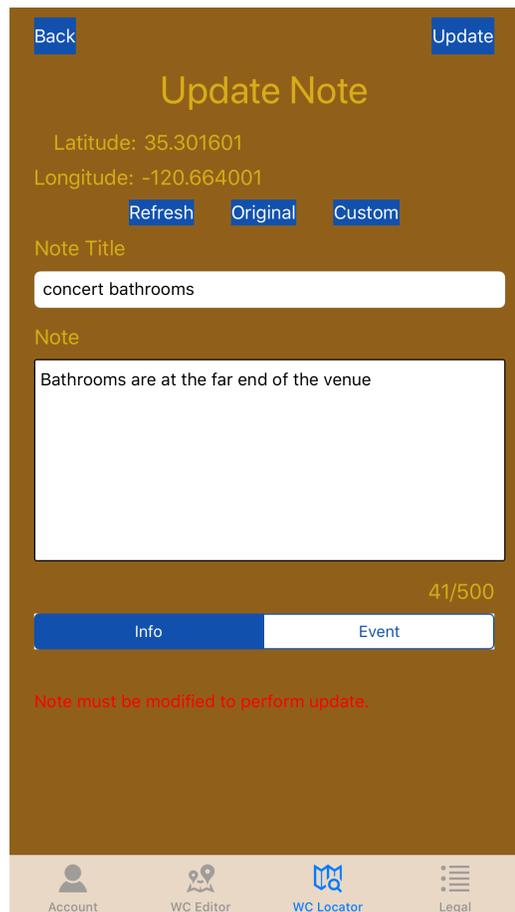


FIGURE 2.56 - UPDATE NOTE VIEW WITH ERROR

## 2.6.3 Updating a note

Notes can be updated as a logged in user by tapping the *Update* button for the note in question in the notes list view in figure 2.42. The user will then be taken to the update note view shown in figure 2.55. Once the updates have been made, the user can press the *Update* button to perform the update. If no updates have been made, an error will be displayed to that effect as shown in figure 2.56. Otherwise the user will be returned to the updated originating notes list view from figure 2.42.

## 2.6.4 Deleting a note

A Note can be deleted as a logged in user by tapping the *Delete* button for the note in question from the notes list view as shown in figure 2.42.

# 3 Appendix A: App Datatypes & Limits

## 3.1 Accounts

Accounts represent the app users. Creating an account allows users to generate content, not just consume it. The fields in an account are described below.

- `userId` - id for the user
- `userType` - type of user account (e.g. admin, basic user, etc.)
- `email` - email address associated with the account. Maximum accepted length is 120 characters.
- `password` - account password. Maximum accepted length is 100 characters.
- `firstName` - user's first name. Maximum accepted length is 40 characters.
- `lastName` - user's last name. Maximum accepted length is 80 characters.
- `username` - username for the account. Maximum accepted length is 80 characters.

## 3.2 Buildings

Buildings represent actual buildings in the real world. A building can contain multiple bathrooms. The fields in a bathroom are described below.

- buildingID - unique id for the building
- creatorID - unique id for the user account that created the building
- latitude - latitude that the building is located at
- longitude - longitude that the building is located at
- name - name of the building. Maximum accepted length is 120 characters.
- type - type of the building (e.g. food, school, recreation, etc.). Maximum accepted length is 80 characters.
- floors - number of floors in the building

## 3.3 Bathrooms

Bathrooms represent the bathrooms themselves. The fields in a bathroom are described below.

- bathroomID - unique id for the bathroom
- buildingID - unique id for the building
- name - name for the bathroom. Maximum accepted length is 80 characters.
- floor - floor in the building that the bathroom is located on.

## 3.4 Amenities

Amenities are abstract items and features associated with a bathroom, including gender, toilets provided, supplies, and facilities. The fields in an amenity are described below.

- amenityID - unique id for the amenity
- bathroomID - unique id for the bathroom
- featureType - type of amenity
- name - name of the amenity
- amenityCount - number of the amenity in question

Amenity featureTypes and the corresponding name values are shown in the table below.

featureType	name
Gender	Men's Room, Women's Room, Unisex Room
Room Size	Outhouse, Single, Small Public (2-10), Medium Public (10-20), Large Public (20+)
Toilets	Stall, Urinal, Handicap, Bidet, Squat
Basic Cleanliness	Sink, Toilet cover
Body Cleanliness	Shower, Bathtub, Changing table, Condoms, Tampons
Relaxation	Spa, Sauna
Utility	Trash can, Drinking Fountain
Other	Decor

## 3.5 Reviews

Reviews are user provided ratings and text reviews of specific bathrooms. The fields in a review are described below.

- reviewID - unique id for the review
- bathroomID - unique id for the bathroom being review
- reviewerID - unique id for the author of the review
- rating - rating given for the bathroom
- review - review given for the bathroom. Maximum accepted length is 500 characters.
- reviewer - username of the author of the review.
- title - title of the review for the bathroom. Maximum accepted length is 120 characters.

## 3.6 Notes

Notes provide a means to make posts that may be separate from bathroom related content. Info notes are the most general category of notes and event notes can be used for providing bathroom info for specific events. The create table statement is shown below.

- authorID - unique id for the author of the note
- authorUsername - username of the author of the note
- latitude - latitude that the note is located at
- longitude - longitude that the note is located at
- noteTitle - title of the note. Maximum accepted length is 120 characters.
- note - the note itself. Maximum accepted length is 500 characters.
- noteType - the type of note (e.g. info, event)
- datePosted - the date the note was posted on