## () – means the use case has been coded

## Account – Priority (Highest)

Use Case #1 – User can create an account **()**

User needs to indicate they want to create an account by selecting the “Register” button/link. The required data needed to create an account is their Username, Email Address, and Password. Both the Username and Email Address need to be unique. Optionally, the user may fill in their First Name, Last Name, City, State, and Zip Code.

Use Case #2 – User can edit their account information (Email Address, First and Last Name, Password, City, State, and Zip Code) **()**

Users will need to go to their account and select the “Edit Profile” button/link. From here, users will be able to update their account information. The information that can be updated is their Email Address, First Name, Last Name, Password, City, State, and Zip Code. When they are done updating they will need to select save to save the changes.

Use Case #3 – User can view their account information **()**

Users will need to have an account, and be logged in. Users will need to navigate to their profile to view their current information. Users will be able to see their First Name, Last Name, Email Address, Username, City, State, and Zip Code.

Use Case #4 – User can delete their account **()**

Users will need to have an account and be logged in. Users will need to navigate to their profile and select the “Delete Account” button/link to delete their account. The user will be prompted to verify they wish to permanently delete their account. Immediately after the user verifies they wish to delete their account they will be logged out of the system and their account removed.

## Log In/Out – Priority (Highest)

Use Case #5 – Login **()**

Users need to supply their Username and Password to login to the system. If the input is invalid, they will be prompted to enter it again.

Use Case #6 – Logout **()**

Users that want to logout of their session will select the “Logout” button/link. When this is done, the system will log them out and take them back to the login screen.

Use Case #7 – User can recover forgotten Password **()**

Users that want to recover their Password will need to select the “Recover Password” button/link. The user will need to provide their Username. The system will then send an email to the Email Address associated to that Username with a new Password.

Use Case #8 – User can remain logged in **()**

A Registered user will need to select the “Remember Me” button/link during login. When the user connects to the system again from the same computer, they will be automatically logged in without the need to provide their Username and Password. The user will remain logged in until they select the “Logout” button/link.

## Batch – Priority (High)

Use Case #9 – User can create a new batch **()**

The user will indicate they want to create a new Batch by selecting the “New Batch” button/link. The required data needed to create a Batch is the Name and Type of Batch. Optionally, the user may fill in a Description of the Batch.

Use Case #10 – Update an existing batch **()**

Users will need to have an account, and be logged in. Users will need to select the “Edit” button/link to edit an existing Batch. The user will be able to edit the Name, Type, and Description of the Batch.

Use Case #11 – User can view a list of all their batches **()**

Users will need to have an account, and be logged in. Users can then select the “Batches” button/link to view a list of the Name, Type, Date created, and Description of all their saved Batches displayed in chronological order.

Use Case #12 – User can delete batch **()**

When a user is done with a Batch, and no longer wants the Batch to be saved in the system, the user will select “Delete” Batch. The system will then ask the user to confirm they want to delete the Batch. If the user confirms, the Batch along with all associated saved data (Notes, Measurements, Ratings, etc…) will be deleted.

## Batch Note – Priority (High)

Use Case #13 – User can enter notes about a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users can then select the “Add Note” button/link to add a Note for that Batch.

Use Case #14 – User can view details of a note about a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch and then select an existing Note about that Batch. Users can then view the Name, Date and Time the Note was created, and Description of the Note.

Use Case #15 – User can delete notes about a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users can then select the “Delete” button/link to delete a Note for that Batch.

Use Case #16 – User can edit notes about a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users will need to select the “Edit” button/link for an existing Batch Note. Users can edit the Note Title and Description.

Use Case #17 – User can view a list of all their notes about a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users can then view a list of the Name and Description of all their saved Notes for the selected Batch displayed in chronological order.

## Batch Action – Priority (High)

Use Case #18 – Add actions to a batch, for example when they racked, bottled, filtered etc. **()**

While working on a Batch, the user will need to record what Actions they have performed. They will select the Batch and “Add Action”. From here, they will choose the Action performed and add Notes. The Action will be record by the system along with a timestamp.

Use Case #19 – View details of an action performed on a batch **()**

The user may want to look up what Actions they have performed on a Batch. They will select an existing Batch and an existing Action. Users can then view the Title, Date and Time the Action was performed, and Description of the Action.

Use Case #20 – User can delete actions performed on a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users can then select the “Delete” button/link to delete an Action performed on that Batch.

Use Case #21 – User can edit actions performed on a batch **()**

Users will need to have an account, and be logged in. Users will need to select an existing Batch. Users will need to select the “Edit” button/link for an existing Batch Action. Users can edit the Title, Type, Date and Time the Action was performed, and Description of the Action.

Use Case #22 – User can view a list of all their actions performed on a batch **()**

The user may want to see a listing of all Actions they have performed on a Batch. They will need to select an existing Batch. From here, they will choose to view the Action history of the Batch. Users can then view a list of the Name and Description of all their saved Actions for the selected Batch displayed in chronological order.

## Recipe – Priority (High)

Use Case #23 – Add recipes **()**

At a certain point in time, the user will add a new Recipe. Once he figures out he wants to add a Recipe, they complete the associated attributes of the Recipe. Once the Recipe and its applicable elements have been added, the user saves the new Recipe.

Use Case #24 – View listing of all recipes **()**

To a view a list of all the user’s Recipes, the user selects the “Recipes” button/link. The Name and the Date and Time created for all the user’s Recipes are then displayed on the screen.

Use Case #25 – Delete recipe **()**

When a user no longer wants certain Recipes, they have the ability to delete specific Recipes, by selecting “Remove Recipe”. Next, the system, via a pop-up box, will ask if the user does in fact want to delete the Recipe. If the user agrees, they will confirm their selection by selecting the “OK” button/link..

Use Case #26 – Edit recipe **()**

A user who wants to change a Recipe will need to select the “Edit” button/link for the existing Recipe. Except for the Date and Time the Recipe was added, users can edit any or all of the Recipe elements.

Use Case #27 – View details of a recipe **()**

The user may want to look at a Recipe’s details. They will select an existing Recipe. Users can then view all of the elements for that Recipe.

Use Case #28 – Start a new batch from a recipe

A user wants to start a new Batch. One way he or she can start a Batch is by using other Recipes to help create the new Batch. She selects previously created Recipes to incorporate to a new Batch. Once the new Recipe is in the new Batch, the user selects the “Save Batch” button/link.

## Measurement – Priority (Medium)

Use Case #29 – User can enter measurements for a batch such as SG, acidity, etc. **()**

The user will navigate to the recorded Batch and then select “Add Measurement”. The user can add Measurements such as SG and acidity. The system will record the Measurement with a time stamp.

Use Case #30 – Users can edit a batch measurement **()**

Users will need to navigate to an existing Batch and Measurement. Users will need to select the “Edit” button/link. Users can then make changes to their saved Measurement values.

Use Case #31 – View trends of measurements over time, ex: how is acidity changing? **()**

The user may want to see how various Measurements have been changing over time. They will select an existing Batch. A list of all the Measurements for the Batch will be shown in a table or graph of how the Measurements have been changing over time. This will allow them to see how the Batch is progressing and spot any negative trends.

Use Case #32 – Users can view details of a batch measurement **()**

The user may want to look at the Measurement’s details. They will need to select an existing Batch and then Measurements. Users can then view the Name, Date and Time created, Description, what was measured, and the value for the Measurements.

Use Case #33 – Users can delete a batch measurement **()**

Users will need to navigate to the Batch and then the Measurement. Users will need to select the “Delete Measurement” button/link. The user will be prompted to verify they wish to delete the selected Measurement.

## Cellar – Priority (Medium)

Use Case #34 – Add batch to cellar inventory **()**

When a Batch has been completed, the user will create bottle information before adding it to their Inventory. The user will select an existing Batch and the “Add to Cellar” button/link. The bottle data includes Type, Number, and Volume of the bottles, and the Type of Batch.

Use Case #35 – User can edit cellar inventory **()**

As the user consumes bottles (or perhaps breaks them), or if they wish to correct any Inventory information, they can edit their saved Cellar Inventory. They will simply select an existing Cellar Inventory and then select the “Edit” button/link. The updated information will be saved.

Use Case #36 – User can delete cellar inventory **()**

If an entire Inventory Batch has been consumed, broken, or given away, the user can remove the Batch from their Inventory. They will simply select an existing Batch Inventory and the “Delete” button/link. The Inventory will no longer be displayed in the cellar.

Use Case #37 – View entire cellar inventory **()**

When a user wants to view their entire bottled Inventory, they can navigate to their Cellar. Their Cellar will display a list of all bottled Inventory. The list will include the Type of bottle, Number, and Volume of the bottles, and the Type of batch.

Use Case #38 – Users can view details of an inventory in their cellar **()**

The user may want to look at the details of an Inventory in their Cellar. They will need to select an existing Cellar Inventory. Users can then view the Name, Type of container, Quantity, and Volume of the container, and the Batch from which the Inventory was created.

Use Case #39 – Search cellar inventory

The user navigates to their Cellar and selects the “Search” button/link. They then enter one or more search criteria, such as the Name of the Batch from which the Inventory was created, Quantity available, and Volume available. A listing of Inventory that matches any of the entered search criteria is displayed. If no search criterion has been specified, then the search action will not be active.

## Rating – Priority (Medium)

Use Case #40 – Rate batch **()**

The user navigates to the Batch they would like to rate. The user selects the rate option and then rates the Batch on a scale of 0 to 100. When finished, they submit their rating, which records their value and associated it with the selected Batch.

## Search – Priority (Low)

Use Case #41 – User can search for other brewers **()**

Users will need to select the “Users” button/link, and then enter one or more of the following search criteria: Username, First Name, Last Name, and Zip Code. The user will then be able to see the list of Registered brewers that match all of the entered criteria. The system will show the First Name, Last Name, Username, and Email Address in this list.

## Friend – Priority (Low)

Use Case #42 – Users can add friends **()**

Users will need to perform a search for other brewers. After finding another brewer, the user will need to select the “Add Friend” button/link. The system will send an email to the Email Address of record for the other brewer requesting to be added as a Friend. If the other brewer accepts, the two will be linked as Friends.

Use Case #43 – Users can remove friends **()**

If a user no longer wishes to be linked to another user as Friends, they will need to select the “Friends” button/link and then select “Remove Friend” for the other user. The two will be no longer be linked as Friends.

Use Case #44 – View list of all friends **()**

When a user wishes to view all of their Friends, they will select the “Friends” button/link. The Username, First Name, Last Name, and Email Address for all Friends are then displayed on the screen.

Use Case #45 – Share a batch with a friend

The user navigates to the Batch they would like to share and selects the “Share Batch” button/link. The system then prompts the user to enter the Username of the Friend with which they want to share the Batch. The system will send an email to the Friend the Batch has been shared with, notifying them of the shared Batch. The Friend will see the shared Batch the next time they log in

## Comment – Priority (Low)

Use Case #46 – Comment on batch

The user navigates to the Batch on which they would like to create a Comment. The user selects the “Comment” button/link and enters their Comment, which must be between 1 and 256 characters in length. When complete, the user submits their Comment, which is then associated with the selected Batch.

## Ingredient – Priority (Lowest)

Use Case #47 – Add ingredients to inventory

The user may wish to keep track of the Ingredients used to brew their batches. To enter an Ingredient into their Ingredient Inventory the user will navigate to the Ingredients screen and select the “Add to Inventory” button/link. They will then enter the Ingredient information such as, Name, Description, Cost, and Quantity on hand. Once the Ingredient information has been inputted, the user selects the “Save” Ingredient button/link.

Use Case #48 – User can view their ingredient inventory

User can inventory amount and type (ex. 12 bottles, 4 gallons)

A user selects to view their Inventory. Upon the selection of the view Inventory page, the Inventory displays and the user can see the various items in their Inventory. This will help the user decide whether they have too many or too few Ingredients.

Use Case #49 – Update ingredient inventory

When a user wants to update their Ingredient Inventory, they will navigate to the Ingredients screen and then the Ingredient and select the “Edit” button/link. They may then change any of the Ingredient’s information. This may be necessary to update quantities if Ingredients have been purchased or used or to update the cost of an Ingredient if it has changed. Once the Ingredient information has been updated, the user will select the “Save” button/link

Use Case #50 – Remove ingredient from inventory

If a user no longer uses an Ingredient in their brewing, or they do not have any on hand and no longer want it to show up in their Inventory, they can navigate to the Ingredients screen and then the Ingredient and select the “Delete” button/link. After confirming they want to delete the Ingredient, it will be removed from their Inventory.

Use Case #51 – Search ingredients

The user navigates to the Ingredients screen and selects the “Search” button/link. They then enter their search criteria, such as hop or grape type, malt type, etc. For instance, “malt” would show all malts while “Belgian pilsner malt” would only show Belgian pilsner malts. When submitted, the system shows the user a list of all matching Ingredients found. If no search criterion has been entered, then the search action will not be active.

Use Case #52 – User can add any ingredients to a batch

A user will add many Ingredients to a Batch. For every Ingredient, there will be specific attributes the users will add. Examples of what would be required for each Ingredient include:

* Name
* Type
* Quantity

Once the Ingredient attributes have been inputted, the user saves the Ingredient and its attributes.

Use Case #53 – User can remove ingredient from a batch

When a user no longer wants a certain Ingredient in a Batch, they have the ability to delete specific Ingredient from the Batch. They check the Ingredient they want to remove and then select the “Remove Ingredient” button/link. Next, the system displays a confirmation box, via a pop-up, asking the user if they are sure they want to remove the Ingredient. If the user agrees, they will confirm their selection by selecting the “OK” button/link.

## Calculate – Priority (Lowest)

Use Case #54– Calculate alcohol percentage

While working on a Batch, the user may want to calculate the current alcohol by Volume. They will use their hydrometer to take a reading of the specific gravity (SG) and then add this Measurements. Based on the original gravity (OG) they input at the start of the Batch, the ABV will be calculated and stored with the Date.

Use Case #55 – Calculate amount of sulfite to add to wine

While working on a Batch, the user may want to adjust the SO₂ level for the Batch. They will take pH and SO₂ readings using measurement equipment and enter the readings into the system. The user will also enter the desired level of SO₂. The amount of sulfite to be added will be calculated.

## Reminder – Priority (Lowest)

Use Case #56 – Add reminder

The user will select the Reminders screen. They will enter the Reminder Date and Time along with a reminder Description. They may optionally add Notes to the Reminder and associate a Batch. When complete, the user will submit their data to the server. If the Reminder is cancelled, any entered data will not be saved.