Wine Manager

5th December 2019

OVERVIEW

Wine Manager is an organizational solution for wine collectors. It allows the user to visualize and search their wine collection(s) without having to physically go look. It makes being a collector easier to enjoy.

GOALS

1. Visualize wine storage in an appealing manner, indicating full and empty spaces
2. Display wine location based off of search results, or indicate no wine is available
3. Display wine details on selection of a slot in a wine storage, includes origin, varietal, taste profile, *isUserFavorite
4. Add / Remove user's wine from storage
5. Display list of favorite wines and current quantity
6. Create / Delete user's wine storage locations
7. Be mobile friendly: responsive design

FUTURE GOALS

1. Web scraper to seed Wine database
2. Enable grid layout within multiple shapes - hexagon, circle, rectangle, etc.
   a. Grid recognition from image
   b. Enable user click and drag within shape to create grid underlay
3. Integrate LED light hardware with app
   a. Lights illuminate based on user search results, physically identifying where bottles are in storage location
4. Integrate image scan with app
   a. Allow user to scan barcode to search for wine in database
   b. Allow user to scan image to search for wine in database

PHASES & TARGETS	COMPLETE

Define — By Sun 8-Dec

Open

Identify the following solution paths:

- Hosting database - Firebase (FirebaseDatabase.net), Azure, etc
- Front-end technology - Razor, React, JQuery, etc
- Finalize project concept

Plan — By Sun 8-Dec

Open

Create outline of schedule and specific objective milestones

Design — By Tues 10-Dec

Open

Wireframe concept views: consider computer, tablet, iPhone viewports

Design data models & data flow

Develop — By Tue 17-Dec

Open

Develop:

- Front-end views of wine location (1)
- Back-end logic for wine data storage
- Authentication
- Hosting

Test — By Tue 17-Dec

Open

Complete:

- Unit testing of major logic functions
- User testing of front-end

Deploy — By Thur 19-Dec

Open

Host database and website online

STRUCTURE

The purpose of this section is to provide general concepts for the views and functions of the Wine Manager app. The (*) indicates future considerations.

1. Login page:
   a. WineManager Logo
   b. Text fields for user name and password
   c. Login & Registration buttons
   d. About link?
2. Home page:
   a. Display username & WineManager logo (header?)
   b. Link to account details page
   c. List of links for existing wine locations
   d. List of favorite wines w/ storage location name ⇒ goes to wine detail display
3. Account page:
   a. Password reset
   b. * Settings (useLights y/n)
4. Wine Location page:
   a. Display location name
   b. Display representation of storage using grid
      i. * Allow for user to create custom storage locations by creating shape outline and moving grid pattern underlying the shape
   c. Identify empty and full slots in storage
   d. FUNCTION:
      i. Add wine (click on empty slot)
      ii. Display existing wine (click on full slot)
5. Wine Detail page:
   a. ⇒ Display changes based on viewport size:
      i. Computer or tablet: display as sidebar
      ii. Mobile: display as entire screen with added link to highlight in wine location view
   b. Display wine name
   c. Display wine details: varietal, origin, tasting profile, etc
   d. Display current storage location(s) and total quantity
   e. Button to remove wine from storage
   f. Button to add wine to Favorites list
6. Add Wine page:

     a. ⇒ Three views: Options view, Search for wine view, Create new wine view

          i. Options: display links to search for existing wine and create new wine; FUNCTION: add to slot after successful search or create

          ii. Search: search form with submit button; FUNCTION: display paginated wine summaries based on search, link to wine display pages

          iii. Create: create new wine & add to database, user must confirm values before database push; FUNCTION: create wine item & push to database on confirm

7. * Online / Offline capability?

     a. Offline: view only functions

     b. Online: add / remove wine, create / delete wine locations

8. * Wine "periodic" table page ⇒ need copyright approval?

     a. Display wine periodic table

     b. FUNCTION: on click of box in table, display all applicable wines in user's collection with corresponding wine location

9. BACKEND DATABASE:

     a. Wine data table

          i. Wine ID, unique

          ii. Name, varietal, origin, tasting profile, etc

     b. Wine storage table

          i. Wine storage ID, unique

          ii. Name, dimensions

     c. Collection table (join Wine data & Wine storage)

          i. Collection ID, unique

          ii. Wine ID

          iii. Wine storage ID

          iv. Wine storage location ID (based on dimensions, e.g 1-2 or A2)