

Mixology Planning Document

Scope:

I want to produce a website that allows people to create and share the recipes of their favourite cocktails. The website should be mobile friendly and responsive as the amount of people using the internet of their phone is increasing everyday.

Bookmarking or saving items is something users have become accustomed to as it is offered by many different websites and is now expected to be a feature of websites.

Users that register and login in will have a profile page created for them where they can view their own cocktails and those they have bookmarked.

Cocktails should be able to be filtered easily and even searched for by the user so they can quickly find a cocktail they fancy and make it.

The site will also need to allow the user to quickly check if they have everything they need to make the cocktail as well as what step they are on in a recipe.

As the owner of the site I would like it to one day be able to generate revenue. Users will be presented with affiliate links to websites so that they can acquire what they need. **(These are not real affiliate links but for demonstration only)**

Strategies:

From the criteria set out in the above scope, I have come up with the following strategies to fulfill them:

1. Mobile Friendly (Responsive Design):

The site will take advantage of bootstrap grid system and will include CSS media queries that will update the sites layout as the screen size changes.

2. **Bookmarking Cocktails:**

A bookmark icon will be placed on all previews of the cocktails and on the cocktail recipe page. The user will then be able to simply click the icon and the cocktail will appear on their profile under “Your Bookmarks”. (User will need to have registered)

3. **Profile Page:**

Users will have a profile page automatically created for them from a template which will have their profile data pushed into it (After registration). The user will then be able to add an image and change their profile name from this page.

4. **Easy Filtering:**

Cocktails will be present to the user filtered immediately from the homepage in the form of three categories. “**Newly Added**”, “**Top Rated**” and “**Most Popular**”. These three categories can then be filtered further by the main alcohol used in the cocktail by the user clicking their preferred alcohol in the main site nav. This will render the homepage template again but only show cocktails that use the selected alcohol.

5. **Search:**

The user will be able to search the site for their favourite cocktail or user. The search will be placed in the header and accessible from all pages. The results will be filtered into the main alcohol types for example, gin and vodka.

If you are looking for another user's profile, you would just need to search for them and then you will be redirected to their profile where you can view any cocktails that they have added.

6. **Step and Item Tracking:**

A checkbox system will be put in place that when clicked will change the colour of the whole item so they can easily distinguish what ingredients and tools they have as well as what step they are on.

7. **Affiliate links (demonstration only):**

Links to websites where the user can get all the items they need will be present on all cocktail recipe pages.

Below is the priority matrix for the point above rating importance against their viability.

Opportunity / Problem	Importance	Viability / Feasibility
1. Responsive Design	5	5
2. Bookmarking Cocktails	5	4
3. Profile Page	4	4
4. Easy Filtering	4	5
5. Search	5	4
6. Step and Item Tracking	3	5
7. Affiliate links	3	5
Total:	29	32

Structure:

The website will have a fixed in place site header at the top of every page and will remain there even if the user scrolls down.

The site header will contain the main site navbar which will consist of the 5 main alcohol types (as well as the search tool). The links will render the same template as the homepage but it only contains cocktails related to that selected alcohol.

The homepage will have a large hero image featuring the cocktail of the week. This will have to currently be manually set as I can not guarantee user images will be the appropriate quality or size. Alternatively it will automatically update but only be selected between cocktails I've added myself under the Mixology user. The hero image has the height of 75% of the browser window allowing the next section to peek into visible on the landing page.

This will encourage users to scroll down to view the cocktail carousel. Cocktails will be firstly presented in the form of a recipe card (rec card) that will display a small amount of information about the cocktail such as, image, rating and no. of ratings. These rec cards will then be set into a Netflix style carousel which the user can swipe or click through the slides.

Each rec card will have a "Create" button (Later changed to "Make It") which will take the user to the Cocktail Recipe Page for that cocktail displaying all the information about how to make the cocktail as well as image and rating.

If the user is the owner of the cocktail they will be presented with additional buttons that will control CRUD operation for that cocktail.

Adding and editing a cocktail can be done by all logged in users as cocktails require an owner. Adding and editing a cocktail will be done on a form that takes on an almost identical style to the Cocktail Recipe Page. In regards to the similarity of the pages the user will still be easily be able to tell which type of page (viewing or editing/creating) they are on.

Login and register pages will be simple pages only containing the related form in the centre of the page and will link to one another.

User profiles will have a header that displays the user's information and again CRUD operation will be available if the user owns the profile.

The users cocktail will be presented to them on the same carousel as the ones found on the home page as well as the users bookmarked cocktails.

Scroll Down To
Family Tree

Family Tree



Scroll Down To
Date Model / Schema

Cocktails have a lot of keys which are of a variety of different data types. The document is added to the database by the web application in the following format.

```

1  _id: ObjectId("60267de2c0f7b935b107db21")
2  cocktail_name : "sunrise "
3  alcohol : "tequila "
4  image : "https://drive.google.com/uc?export=view&id=14zp8vFdAb56Q5Hpdt3pydVskkyRAO_Cb"
5  date_added : 2021-02-12T13:08:50.613+00:00
6  rating : 4
7  no_rating : 1
8  no_of_bookmarks : 2
9  author : "mixology "
10 author_id : "60255ef95f5d67939e673ce2 "
11 ingredients : Array
12   0 : Array
13     0 : "50 "
14     1 : "ml "
15     2 : "omega "
16   1 : Array
17     0 : "150 "
18     1 : "ml "
19     2 : "orange jucie "
20   2 : Array
21     0 : "12.5 "
22     1 : "ml "
23     2 : "grenadine "
24   3 : Array
25     0 : "8 "
26     1 : "ml "
27     2 : "ice cude "
28 garnish : Array
29   0 : Array
30     0 : "1 "
31     1 : "orange slice "
32 tools : Array
33   0 : "bar spoon "
34   glass : "hurricane "
35 instructions : Array
36   0 : "Fill the glass to the top with ice. "
37   1 : "Pour the tequila and orange juice over the ice. "
38   2 : "Stir until well mixed "
39   3 : "Pour slowly the grenadine over the ice and let it drizzle to the bottom. It will create a separate layer and the bottom. "
40   4 : "Cut a slit in the orange slice and place on the rim of the glass. "
41   5 : "Stir when ready to enjoy! "
42 rating sum : 4

```

[illegible]

The **ingredients** and **garnish** are arrays that contain other arrays. The values in the arrays in the ingredient array are the ingredients broken down into three sections

0: Amount, 1: Unit, 2: Name.

The values in the garnish arrays:

0: Amount, 1: Name

I chose to use arrays instead of setting each value with its own nested key because the way the inputs are added when a cocktail is to be edited uses a for loop that assigns the ids to the inputs based on the loop index. I thought it easy to just use the same principle to assign the values to the inputs, meaning each value is assigned loop index by for example:

```
{% for i in range(0, cocktail.ingredients | length ) %}
    <li class="ingredient">

        <!--Amount-->
        <input type="text" id="ingredient-amount-{{ i + 1 }}" name="ingredient-amount-{{ i + 1 }}"
            class="form-cocktail__input form-cocktail__input--amount" pattern="^[0-9.]{0,5}$" maxlength="5"
            placeholder="25" aria-label="enter amount of main alcohol" value="{{ cocktail.ingredients[i][0] }}"
            required>

    {% endfor %}
```

The number of garnish, ingredients, tools and instructions are all determined by the number of inputs added to the Cocktail Create Form.

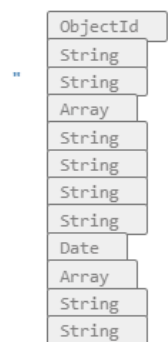
The image key holds the url to the image for the cocktail as a string later inserted as the src attitude.

The author's name ID is set to match that of the current session user that is logged in at the time of creation. The ID is also take as well as

Users documents have 6 keys excluding the id.

For the password key I have changed what the password hash **(It is not the actual password for this test user)** would actually look like for this test account but the data type is the same. The hash is stored as a string in the database. The image key holds the url to image the user has selected to be their profile image as a string later inserted as the src attitude. Bookmarks and Rated Cocktail are both arrays of IDs of cocktails they have bookmarked or rated.

```
1  _id: ObjectId("6029be98d5cf8cf8fe8a0fba")
2  username : "test60 "
3  password : "pbkdf2:sha256: [REDACTED]"
4  ✓ bookmarks : Array
5    0 : "60267de2c0f7b935b107db21 "
6    1 : "60257a872dda1b4d3a31e43c "
7    2 : "60256ef65f5d67939e673ce4 "
8  image : "https://drive.google.com/uc?export=view&id=1xxYCbYNJ5bQmalWEqNgZyl8zjxnV5Id9 "
9  date_added : 2021-02-15T00:21:44.671+00:00
10 ✓ rated_cocktails : Array
11   0 : "602673c8cd5749654a6e8f69 "
12   1 : "60256ef65f5d67939e673ce4 "
```



Scroll Down To
Date Diagram

Date Diagram:

Though this is not a relational database the collections do share data. Profiles contain Cocktail IDs in Arrays for booking marking and to stop users rating cocktails more than once. Cocktails contain their authors (User) ID and username in their document. They are used to check if the session user can edit the cocktail they are viewing. The cocktail also contains the name of the Alcohol it uses, Tools and Glass need to make it.

