Solution Architecture

The Oracle

Version	2.0
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Table of Contents

1. Document Management

1.1 Revision History

Date	Version	Description of Change	Author
18/5	1.0	INITIAL DRAFT	Nicholas Solomos
19/5	1.1	Wireframes and UX architecture	Clement Dai
20/5	1.2	Completed all other sections	Nicholas Solomos
20/5	2.0	Final Revision	Nicholas Solomos

1.2 Intended Audience

Name	Title	Action Sign-off Review Info	Date Approved
Christopher Ferrie	Client		
Ujash Leuva	Subject Tutor		

1.3 Reference Documents

Ref	Name	Description	Location
1	A3_example_redacted	Example structure and info for documents	Canvas
2	Project Brief	Project Brief submitted earlier in the semester	Canvas

1.4 Glossary

| Term	Description / Meaning

2. Solution Architecture

2.1 Overall Solution

Discuss the overall solution architecture components and description.
The solution architecture components below depict different aspects of our project. In the document we show the interaction architecture by viewing key interfaces components and their interactions, business capabilities, the diagrams and dictionaries relating to the information architecture, the aspects of the application and how it is structured as well as the security architecture.

3. Interaction Architecture

Key user interfaces components (UXD/ CXD) and their interactions and description. i.e. user journey maps
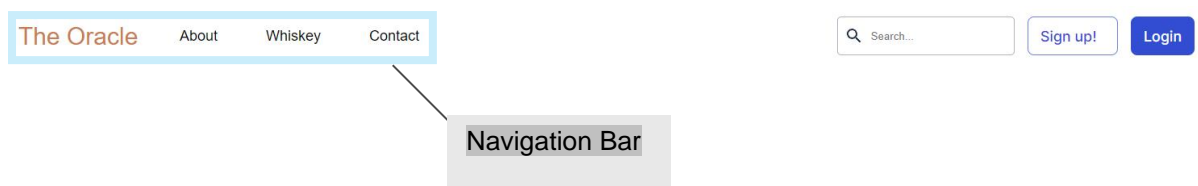
The Oracle   About   Whiskey   Contact   Q Search...   Sign up!   Login

Whiskey Page

Welcome to the Whiskey page!

Chemistry 🔘 Whiskey

> Switch between Chemical view and Whiskey view.

Filters RESET ALL

Region   +

Flavour   −

☐ Sweet

☐ Smokey

☐ Floral

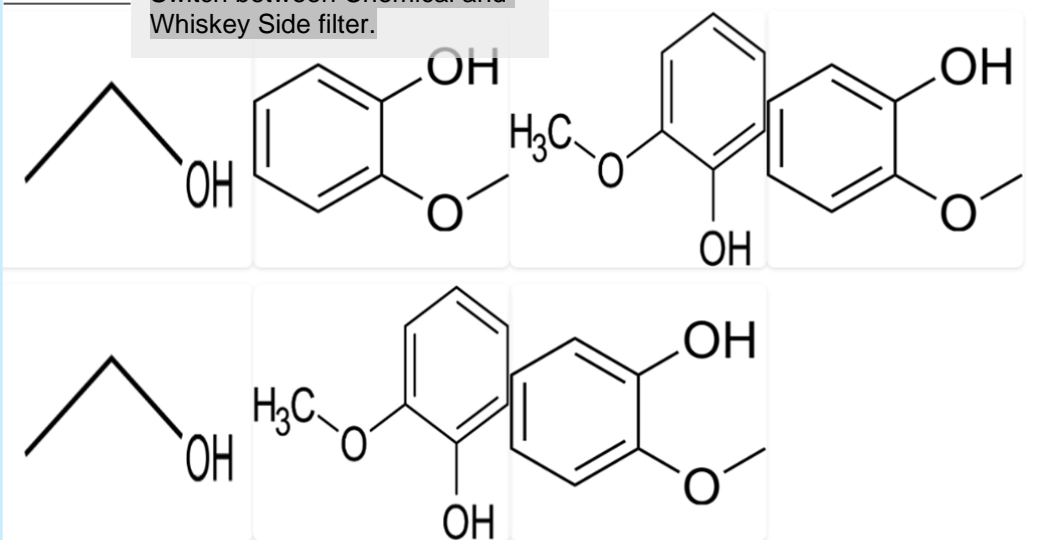☐ Fruity

☐ Spicy

☐ Herbal

☐ Peaty

Brand   +

> Switch between Chemical and Whiskey Side filter.

Filters RESET ALL

Flavour   −

☐ Sweet

☐ Smokey

☐ Floral

☐ Fruity

☐ Spicy

☐ Herbal

☐ Peaty

Sort   +

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Whiskey Bottle Name
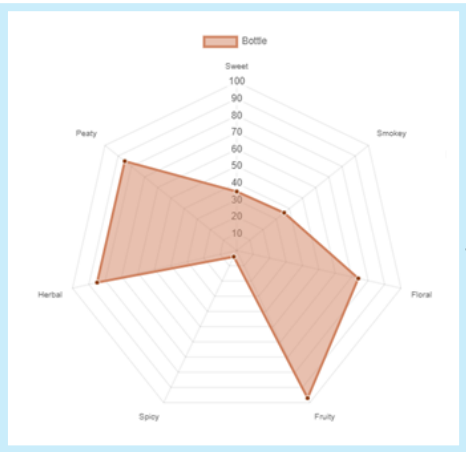
Clickable labels that send you to another page for more information.

Chemical Makeup

- Lorem ipsum dolor sit amet consectetur. Imperdiet quam non amet eget. Ut consectetur nisi nisl et nisi sem. Est sapien at phasellus vulputate neque. Ac lorem consectetur nulla arcu dolor odio. Vivamus sagittis elementum scelerisque sit mauris. Blandit magna condimentum velit lacus dignissim sem auctor. Egestas sem placerat vulputate iaculis sit turpis arcu. Massa proin scelerisque massa tincidunt adipiscing in libero tristique. Sagittis scelerisque augue in ut leo at potenti. Ac tempor vitae turpis vitae volutpat. Etiam magna dignissim arcu mi leo proin quis viverra. Volutpat habitant enim viverra quis erat. Tincidunt quis ipsum nec aliquam.
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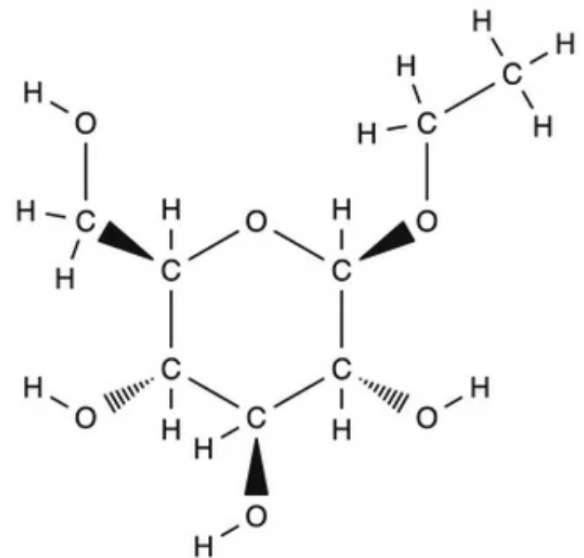
Recommendations

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Herbal

Chemical Name:

Lactones

Description:

Lactones are a fascinating class of organic compounds characterized by a cyclic ester structure, often found in nature, imparting distinct aromas and flavors. These compounds contribute to the fragrance of flowers and fruits, adding complexity to perfumes and enhancing the taste of various foods and beverages. From the creamy sweetness of coconut to the fruity notes of peach and apricot, lactones play a crucial role in defining the sensory experience of many natural products. Their versatile chemistry makes them valuable in synthetic processes, pharmaceuticals, and materials science, where their unique properties are harnessed for diverse applications. Whether it's the subtle hint of vanilla in a dessert or the alluring scent of jasmine in a perfume, lactones continue to captivate and inspire scientists, chefs, and perfumers alike with their aromatic charm.

4. Business Architecture

Key business capabilities and/or processes
Key business capabilities and/or processes
The key business capabilities are:

- Viewing a list of different whiskeys
- Providing information about the whiskey flavour
- Providing a radar graph showing the flavour compounds and their intensity

The key business processes are:

- Displaying whiskeys in grid format
- Having radar chart accurately depict whiskey compounds
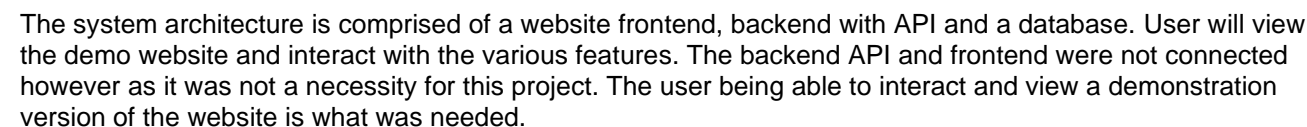- Having a filter function that can switch between flavour and compound

5. Information Architecture

Conceptual data model and business glossary (data dictionary)
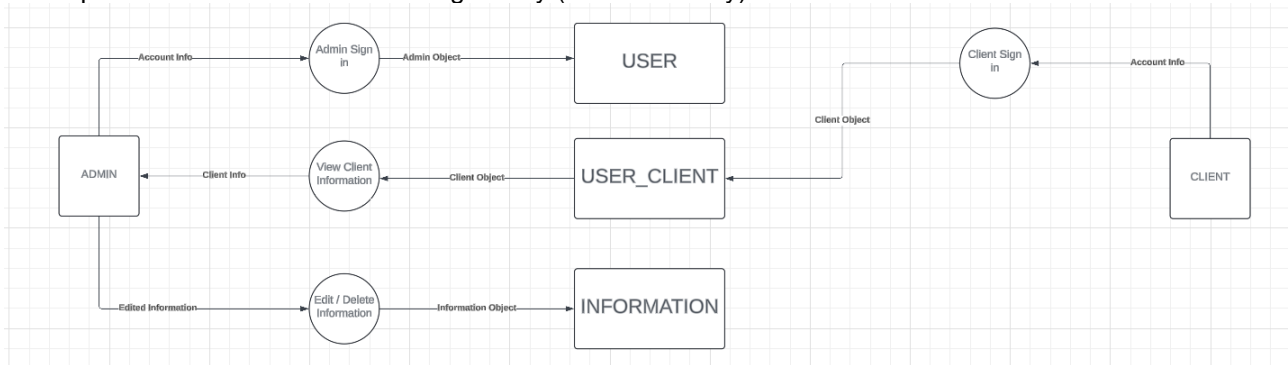
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DE-1001	Id	Int	10	Foreign key
DE - 1002	Name	varchar	20	**Name**
DE - 1003	Address	varchar	50	**User address**
DE - 1004	Password	varchar	20	**User password**
DE - 1005	Role	varchar	20	**User Role**
02 User_Client				
DE - 2001	Id	Int	10	Primary key
DE - 2002	Role	varchar	20	**Role (Client)**
03 User_Admin				
DE - 3001	Id	Int	10	Primary key
DE - 3002	Role	varchar	20	**Role (Admin)**
04 Whiskey				
DE - 4001	Whiskey_Id	Int	10	**Id**
DE - 4002	W_Name	varchar	20	**Name**
DE - 4003	W_Maker	varchar	20	**Maker**
DE - 4004	Compound_id	Int	10	**Id of compound**
DE - 4005	W_Chemical	varchar	20	**Chemicals in whiskey**
DE - 4006	W_Chemical_Strength	Int	3	**Strength level**
DE - 4007	W_Flavour	varchar	20	**Flavour**
DE - 4008	W_Contact_name	varchar	20	**Contact info**

DE - 4009	W_contact_url	varchar	20	**Contact link**
05 Compounds				
DE - 5001	Compound_id	Int	10	Primary key
DE - 5002	C_Name	varchar	20	**Name**
DE - 5003	C_Flavour	varchar	20	**Flavour**

6. Application Architecture

MVC application architecture and their software, data and hardware technology components.

The system architecture is comprised of a website frontend, backend with API and a database. User will view the demo website and interact with the various features. The backend API and frontend were not connected however as it was not a necessity for this project. The user being able to interact and view a demonstration version of the website is what was needed.

7. Security Architecture

Application and data access management
Role based access.
As of right now there have been no security additions to the website as it was not a requirement from the client. The website created will only be used for demonstration purposes as of right now so any login features were not required. In spite of this, there are still the foundation for login to be implemented in the future as we made sure to include a password and username in our database.

8. Appendices

8.1 User Story/ Requirements Backlog (Trello)
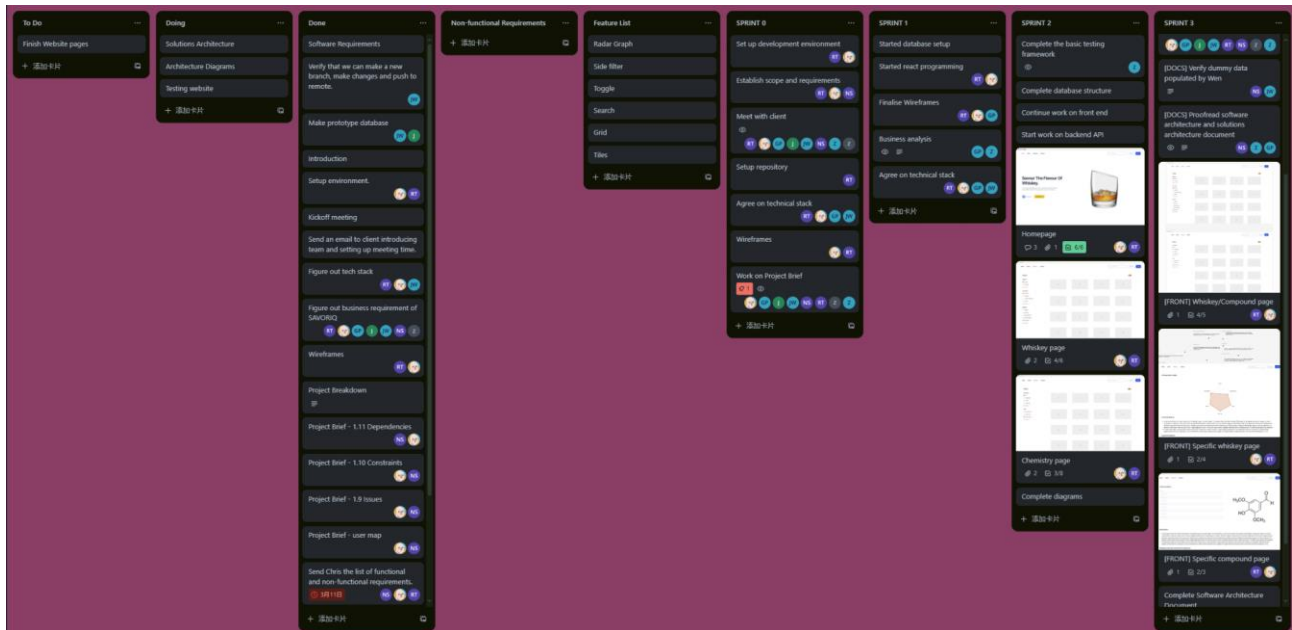
8.2 Wireframes

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Chemistry ⬤ Whiskey
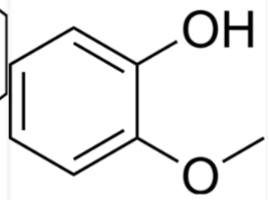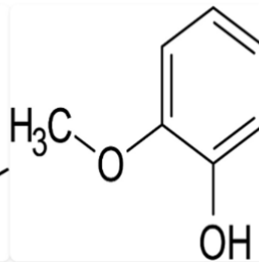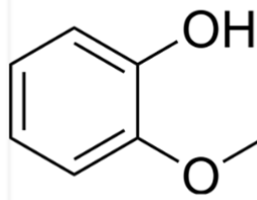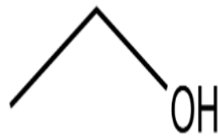
Filters   RESET ALL

Region   +

Flavour   —

☐ Sweet

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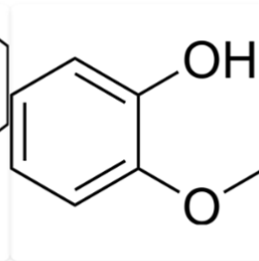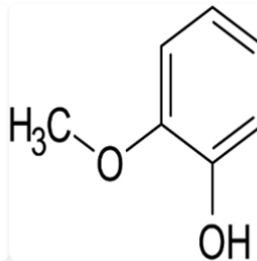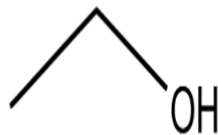
Whiskey Bottle Name

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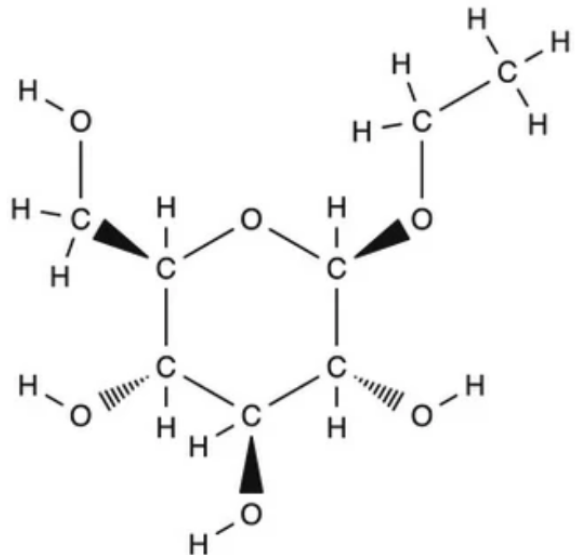
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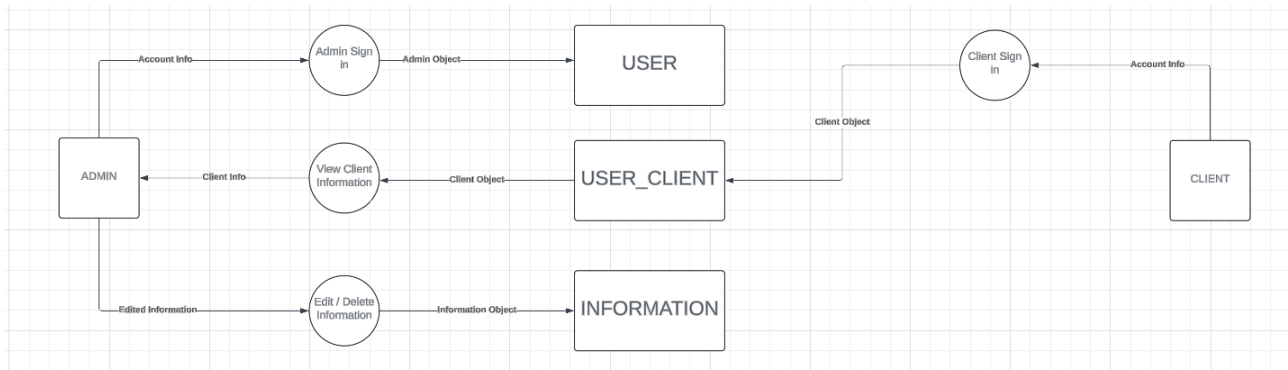# Herbal

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8.3 CDM

8.4 MVC Diagram