



COMP 9900 Information Technology Project Proposal

Scent Searcher

Team Fight (T18B)

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1. Background

The sense of smell is one of the important sense organs, some people say that the sense of smell is the first sense used at birth, and its importance lies in converting chemical signals into feelings. Perfume, as a scent business card, can show personal charm and impress others. Perfume has its own attributes and characteristics, so it becomes particularly important to find a perfume that suits you. With the popularity of the Internet and the development of related technologies, perfume search websites have come into the public's attention. The main goal of such websites is to serve those people who want to explore different perfumes and the perfume notes. According to China perfume industry research white paper (iresearch 2020), about 10 million people wear perfume every day in China. It seems a huge number, but what we need to know is that China's perfume market only accounts for 2.5% of the world market. From this, it is not difficult to find that the increasing perfume market is like a trend containing huge energy.

As websites which some perfume lovers know, such as Fragrantica and Noisetime, they can quickly understand the needs of scent searchers and show satisfactory perfumes for these users. Of course, the selection of perfume notes and more comprehensive customer service can also be realized on today's perfume search website.

1.1. Problem Domain

Our project attempts to build a website to provide users with the ability to search for perfumes, explore different perfumes and the notes associated with them. The website will be equipped with a powerful database that will not only have details of the perfumes but will also store information on notes, users, reviews and more. Users will be able to make inquiries about what they are interested in during the process.

Scent is a being with unique abilities. It can sometimes be like a carrier for people to be able to store emotions and memories. This is why perfume is increasingly becoming a contemporary way of life. People want to explore different fragrances and want to understand more deeply the relationship between the various notes in a perfume. But there is no platform that integrates all the fragrances on the market that allows them to search for perfumes by the combination of notes easily and quickly. Sometimes the search results are not an exact match, and the combination of notes is different from what is expected, but it is not immediately intuitive to tell the difference.

The challenges of this project are the following. First, the processing and cleaning of the data will be the difficulties. And in order to increase the detailed information of the perfume, we also need to store the detailed description of the perfume as well as the pictures through web crawlers. Second, the project will use the latest technology architecture and technology stack for both front-end and back-end. The presentation layer will use HTML, CSS and reactJS. The business layer will use Spring, Spring MVC and Mybatis, and PostgreSQL will be the processing tool for the data layer.

1.2. Existing Works and Analysis

We have browsed some websites which search perfume, including

- Fragrantica: An online perfume encyclopedia, perfume magazine, and a communication community for perfume lovers.
<https://www.fragrantica.com/> (*Fragrantica.com 2021*)
- Nosetime: The world's largest Chinese perfume product library, perfume review community.
<https://www.nosetime.com/> (*NoseTime.net 2021*)
- Basenotes: Online perfume resources in the UK, including perfume databases, message boards and forums.
<https://www.basenotes.net/> (*Basenotes.net 2021*)

The page designs of these three websites are minimalist, and scent searchers can quickly locate the object they want to search for and the perfume information they want to know. For Nosetime, although this website can locate perfume simply by its name, note and brand, users cannot search for perfume through some more complex search criteria. Although Basenotes is very useful for perfume reviews, the reviews did not show the corresponding scores. When referring to the Fragrantica, although users use perfume notes to match the desired perfume results, they cannot specify how many matching notes are allowed to be lost in the results.

When searching for a perfume of interest, the user should be able to view all its detailed information. Most websites can only show simple information such as its name and brand. When the user wants to know the description of the corresponding perfume, full set of notes, and related pictures, relevant comments, average comment ratings, and the number of likes for the perfume, the user is often not given such a comprehensive information.

For user experience, users should be able to set up bookmarks for perfumes they are interested in and be able to view them at any time. In addition, scent researchers should be notified when new perfumes are added on the website.

2. Objectives and Novel Feature

Our project was to develop a website that would allow users to explore different perfumes and the notes associated with them. The main goal was to be able to satisfy users searching for perfumes and fragrances. Users will not only be able to explore perfumes and fragrances, but also to rate and rate perfumes in order to communicate their feelings about them.

There are two entities that will have access to the system. One is the administrator and the other is the registered user.

The site has 10 main functions.

- 1) Users provide basic information to register a valid account, and after registration they can view the page of perfumes.
- 2) Users can edit and modify their personal information, including name, contact information and favorite fragrance.
- 3) Administrator can add product information of perfume, such as name, brand, release date and notes.
- 4) Users can search for perfumes that match a given set of notes and specify how many of these can be missing from perfumes in the results.
- 5) Users can search perfumes by name.
- 6) Users can add or delete bookmarks for perfumes and see a collection of all perfume bookmarks.
- 7) Users can view all the details of the perfume they are interested in when they find it. This includes its name, brand, description, full set of notes, related images, related reviews, average review rating, and the number of likes for the perfume.
- 8) Users can rate the perfume as well as fill in reviews.
- 9) Users can go directly to the personal page of the author of the review when they see a review of interest.
- 10) Users can be notified when a new perfume appears on the site that matches their preferences.

The highlight of our project is mainly the ability to specify the number of missing notes in the results in the search for perfumes, and our website allows for notifications of new perfumes according to user preferences.

In terms of technology, the website of our project is based on a popular architecture and the technical architectures used are up to date. This results in a more solid performance of our website. As a result, our website has less response latency, less browser demand and better user experience.

3. Backlog and User Stories

3.1. Backlog

The screenshot shows the Jira backlog interface for the project 'Scent_Searcher'. It displays three sprints:

- Sprint 1:** 21 Jun – 28 Jun (3 issues)
 - SSS-1 Login [BASIC CUNCTION]
 - SSS-2 Register [BASIC CUNCTION]
 - SSS-20 Database(User) [BASIC CUNCTION]
- Sprint 2:** 28 Jun – 12 Jul (7 issues)
 - SSS-3 HomePage - MAIN FUNTIONS FOR PERFUMES
 - SSS-4 Search by note - MAIN FUNTIONS FOR PERFUMES
 - SSS-5 Search by name - MAIN FUNTIONS FOR PERFUMES
 - SSS-6 personalinfoPage (User center) - MAIN FUNTIONS FOR PERFUMES
 - SSS-7 newPerfumePage (for admin) - MAIN FUNTIONS FOR PERFUMES
 - SSS-24 Database(perfumes) [DATA CRAWLING]
 - SSS-14 Data Crawling [DATA CRAWLING]
- Sprint 3:** 12 Jul – 2 Aug (7 issues)
 - SSS-8 Perfume Page - MAIN FUNTIONS FOR PERFUMES
 - SSS-9 Bookmark - MAIN FUNTIONS FOR PERFUMES
 - SSS-10 BookmarkedPerfumePage (User center) - MAIN FUNTIONS FOR PERFUMES
 - SSS-11 Like, Rate, Review - MAIN FUNCTIONS FOR REVIEWS
 - SSS-12 Notification - MAIN FUNCTIONS FOR REVIEWS
 - SSS-25 Database(review) - MAIN FUNCTIONS FOR REVIEWS
 - SSS-26 Database(notification) - MAIN FUNCTIONS FOR REVIEWS

Figure 1 Screenshot of backlog from Jira

3.2. Sprints Timetable

| Sprint | Sprint time | Duration |
|--------|------------------------|----------|
| 1 | 21th June - 28th June | 7 days |
| 2 | 28th June - 12th July | 14 days |
| 3 | 12th July - 2nd August | 21 days |

3.3. User Stories

3.3.1. Sprint 1

| | |
|------------------------|--|
| User Story | As a new user, I want to register a new account. |
| Priority | Highest |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 6/21/2021 - 6/28/2021 |
| Acceptance Criteria | <p>In database, there is a table with the title of “User”. The primary key is userID. The attributes are Email, username, password.</p> <p>In frontend, there is a page that the user can register by entering the following valid information including:</p> <ul style="list-style-type: none">- Username;- Email;- Password. <p>In backend, there is a RESTful API that can take the register information and put it into the database, then return a JWT token to keep the session alive.</p> |
| Implementation Details | <p>There should be a button in the register page to navigate to the login page. There should be a form component to let the user enter the details and a button to submit.</p> <p>After the user click the submit button, entered values will be checked with pre-defined constraints. For example, the email should be in correct format, then the frontend will pack the information into a JSON and post it to the backend. The backend will check the validity again to ensure database security. The database will rollback if anything is wrong.</p> <p>On success, the user or admin can get a token from backend, then the frontend saves the token in local storage and the user will be directed to the home page. If there is an error during register, an appropriate error should appear on the screen.</p> |

| | |
|------------------------|---|
| User Story | As a user, I want to log in. |
| Priority | Highest |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 6/21/2021 - 6/28/2021 |
| Acceptance Criteria | <p>In database, there is a table with the title of "User". The primary key is userID. The attributes are Email, username, password.</p> <p>In frontend, there is a page that the user can log in by entering the following valid information including:</p> <ul style="list-style-type: none"> - Username; - Email; - Password. <p>In backend, there is a RESTful API that can take the user information and check it with the database, if the information is a valid user, then return a JWT token to keep the session alive.</p> |
| Implementation Details | <p>There should be a button in the login page to navigate to the register page. There should be a form component to let the user enter the details and a button to submit.</p> <p>When the submit of login button is pressed, the frontend packs the name and password into a JSON and posts to the backend. The backend will compare the information with the database and respond.</p> <p>On success, the user or admin can get a token from backend, then the frontend saves the token in local storage and the user will be directed to the home page. If there is an error during login, an appropriate error should appear on the screen.</p> |

3.3.2. Sprint 2

| | |
|------------|--|
| User Story | As a user, I want to view the home page. |
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| Priority | Highest |
| Assignee | Tianyi Wu, Yinghan Li, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 6/28/2021 - 7/5/2021 |
| Acceptance Criteria | <p>In database, there is a table with the title of "Perfume". The primary key is PerfumeID. The attributes are Name, Brand, Description, full set of notes, related pictures, released date.</p> <p>In frontend, there is a page with a navigation bar and a number of perfumes.</p> <p>In backend, there is a RESTful API that return the information of all perfumes.</p> |
| Implementation Details | <p>There should be a navigation bar in the home page which contains logo, notifications and a button to navigate to the user center page. There should be some perfumes displayed in card formation containing a photo some brief information about the perfume, like name and brand.</p> |

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| User Story | As a user, I want to edit my profile, so that I can modify my name, contact details and favorite scent notes in my profile. |
| Priority | Medium |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding |
| Estimated Time | 7 days |
| Start & End Date | 6/28/2021 - 7/5/2021 |
| Acceptance Criteria | <p>In database, there is:</p> <ul style="list-style-type: none"> - A table with the title of "User". The primary key is userID. The attributes are Email, user name, password. - A table with the title of "Notes". The primary key is noteID. The attributes are noteName. - A table with the title of "favoriteNotes" using foreign keys noteID and userID as keys. - A table with the title of "favoritePerfumes" using foreign keys perfumeID and userID as keys. <p>In frontend, there is a page that the user can modify account</p> |

| | |
|------------------------|--|
| | <p>information, including:</p> <ul style="list-style-type: none"> - A new name - New contact details - New favorite scent notes <p>In backend, there is a RESTful API that can take the new user information and update the database.</p> |
| Implementation Details | <p>There should be a form and a submit button in the user center page for user to enter the new account information.</p> <p>When the submit button is pressed, the frontend packs the new information into a JSON and posts to the backend.</p> <p>The backend will receive the information and update the database and respond.</p> <p>On success or not, the user or admin will always get a notification.</p> |

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| User Story | As a user, I want to search for perfumes that match a given set of notes and specify how many of these can be missing from perfumes in the results. |
| Priority | Highest |
| Assignee | Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 7/5/2021 - 7/12/2021 |
| Acceptance Criteria | <p>In the home page, the user can search perfumes by setting matching and missing notes, and search results are displayed in the home page after submit search criteria.</p> <p>In backend, there is a RESTful API that can take the searching criteria and return a list of matching perfumes.</p> |
| Implementation Details | <p>There should be two search box components to search for notes, and a submit button.</p> <p>The frontend will pack the preferred and unpreferred notes into a JSON, then send them to the backend. The backend will compare with the database and screen out the perfumes that meet the requirements. Then the details of these perfumes will be packed into a list and be sent back to the frontend. On</p> |

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| | success, the user will see the names in a new page or an empty search result if there isn't any matching perfume. |
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|------------------------|--|
| User Story | As a user, I want to search for perfumes by name |
| Priority | Highest |
| Assignee | Yuhao Ding, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 7/5/2021 - 7/12/2021 |
| Acceptance Criteria | In the home page, the user can search perfumes by entering the name of perfume (can be partially matched), and search results are displayed in the home page after submit searching criteria. In backend, there is a RESTful API that can take the searching criteria and return a list of matching perfumes. |
| Implementation Details | There should be one search box component to search the name of perfumes, and a submit button. The frontend will send the name information to the backend. The backend will use the information to compare with the database and then screen out all the results that might meet the requirements. These full names of perfumes will be packed and sent back to the fronted. On success, the user will see the names in a new page or an empty search result if there isn't any matching perfume. |

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|---------------------|---|
| User Story | As an admin, I want to add a new perfume |
| Priority | Medium |
| Assignee | Xiaoyu Dong, Yuhao Ding |
| Estimated Time | 7 days |
| Start & End Date | 7/5/2021 - 7/12/2021 |
| Acceptance Criteria | There should be a page consist of a form which can let the admin enter the details of a new perfume, including: - Name |

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| | <ul style="list-style-type: none"> - Brand - Description - full set of notes - related pictures - related reviews - average review rating - the number of likes for that perfume <p>and it can upload the information to backend using a RESTful API</p> |
| Implementation Details | <p>There should be a page to upload the new perfume after admin login the account. The page should consist of a form to let the admin enter and upload any details needed, and there should be a submit button to upload all the details to backend in JSON format using a RESTful API by POST method.</p> <p>The RESTful API in the backend should receive all the information, then create a new perfumeId and save it in the database.</p> |

3.3.3. Sprint 3

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|---------------------|---|
| User Story | As a user, I want that when finding a perfume I am interested in, I must be able to view its full details, including its name, brand, description, full set of notes, related pictures, related reviews, average review rating, and the number of likes for that perfume. So that I can have a more comprehensive understanding of the perfume. |
| Priority | Highest |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 7/12/2021 - 7/19/2021 |
| Acceptance Criteria | A fully worked page showing details of a perfume, including: <ul style="list-style-type: none"> - Name - Brand |

| | |
|------------------------|---|
| | <ul style="list-style-type: none"> - Description - full set of notes - elated pictures - related reviews - average review rating - the number of likes for that perfume <p>a RESTful API that can return the details of a perfume in JSON format using a perfumeId.</p> |
| Implementation Details | <p>The unprovided data(related pictures and description) needs to be crawled on the sample website.</p> <p>There should be a page of perfume details accessible from the main page (via clicking on any perfume), the page of perfume should include all the information of the perfume in a well-designed manner. There should be a RESTful API in the backend system, where frontend can get all the details of a perfume in JSON format using a perfumeId.</p> |

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|------------------------|---|
| User Story | As a user, I want to add a bookmark for any perfumes I am interested in. |
| Priority | Medium |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding |
| Estimated Time | 7 days |
| Start & End Date | 7/12/2021 - 7/19/2021 |
| Acceptance Criteria | In the perfumes page, the user can choose to add a bookmark for the perfume he/she wants to by clicking on the bookmark box. |
| Implementation Details | <p>In the database, there should be a table with the title of "bookmark". The attributes are PerfumeID and userID.</p> <p>There should be a button component in the perfume page.</p> <p>The frontend will pack the perfume's name, user's account name into a JSON and send to the backend. The backend will use this information to add a new record in the bookmark table.</p> <p>If anything is wrong, the database will rollback. On success, the user will see a success information.</p> |

| | |
|------------------------|---|
| User Story | As a user, I want to delete a bookmark for any perfumes I am not interested in anymore. |
| Priority | Medium |
| Assignee | Xiaoyu Dong, Yuhao Ding |
| Estimated Time | 7 days |
| Start & End Date | 7/12/2021 - 7/19/2021 |
| Acceptance Criteria | In the perfumes page, the user can choose to delete a bookmark for the perfume he/she wants to by clicking on the bookmark box. |
| Implementation Details | There should be a button component in the perfume page. The fronted will pack the perfume's name, user's account name into a JSON and send to the backend. The backend will use this information to compare with the database to find out the record and delete it. If anything is wrong, the database will roll back. On success, the user will see a success information. |

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| User Story | As a user, I want to see the entire set of all my bookmarked perfumes, so that I can revisit these. |
| Priority | Medium |
| Assignee | Tianyi Wu, Yinghan Li, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 7/19/2021 - 7/26/2021 |
| Acceptance Criteria | After logged in, user can view a fully worked page showing all bookmarked perfumes by calling A RESTful API that can return a list of bookmarked perfumes in JSON format using a userId and a valid user token. |
| Implementation Details | There should be a page of bookmarks accessible from the user center page (via a navigation button), the bookmarked perfumes shown as cards in the page, including photos, perfume name. The card should be able to navigate to the perfume page by clicking. |

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| | There should be a RESTful API in the backend system, where frontend can get a list of bookmarked perfumes in JSON format using a userId and a valid user token. |
|--|---|

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| User Story | As a user, I want to like, rating out of 5 and I want to write reviews for the various perfumes on the platform) so that can further help all scent searchers find their desired scents. |
| Priority | Low |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding |
| Estimated Time | 7 days |
| Start & End Date | 7/19/2021 - 7/26/2021 |
| Acceptance Criteria | A form component in the perfume page letting user upload his/her rating and review of the perfume. a RESTful API that can take rating and review of a perfume in JSON format via POST method |
| Implementation Details | In the database, there should be a table with the title of "rate". The attributes are userID, perfumeID, like, rating, review. There should be a component that can let user upload his/her rating, by click on the number of stars in the component, and reviews by enter strings in a form. There should be an upload button to upload the rating and review to backend. There should be a RESTful API take rating and review in JSON format using POST method, and then upload the information to the database. |

| | |
|----------------|---|
| User Story | As a user, when I'm interested in a review, I want to be able to navigate to the review author's personal page as well when reading the review. So that I can learn more about the author of the comment. |
| Priority | Low |
| Assignee | Xiaoyu Dong |
| Estimated Time | 7 days |

| | |
|------------------------|--|
| Start & End Date | 7/26/2021 - 8/2/2021 |
| Acceptance Criteria | A component in the review component letting user to click and then navigate the user page of that review. The same RESTful API of userPage. |
| Implementation Details | There should be a React link component that can let user click and then navigate to the userPage of that review. It uses the same RESTful API as the userPage. |

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|------------------------|--|
| User Story | As a user, I want the platform itself can notify me when a perfume is added that matches on my favorite notes. So that I can learn about new fragrances faster. |
| Priority | Low |
| Assignee | Tianyi Wu, Xiaoyu Dong, Yinghan Li, Yuhao Ding, Zhan Gao |
| Estimated Time | 7 days |
| Start & End Date | 7/26/2021 - 8/2/2021 |
| Acceptance Criteria | A component in the navigation bar to notify when a new perfume that the user may be interested in is added, and the user is able to navigate to the perfume page or close the notification There should be a RESTful API to support GET and DELETE method about the notification |
| Implementation Details | There should be a table with the title of "Notification ". The attributes are userID, perfumeID. There should be a component in the navigation bar that can be accessed in every page, when any page is loaded, it send a request to the backend to check if there is a notification, if so, put a mark to notify the user there is a notification, and if the user close the notification, a DELETE call is sent to the backend to delete the notification. When a new perfume is added, the backend should check all users which could be interested in the perfume (bookmarked or liked the notes the new perfume contains), then add the |

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| | notifications into the database so that frontend can get the notifications when call the RESTful API. |
|--|---|

4. System Architecture and Modules

4.1. System Architecture Diagram

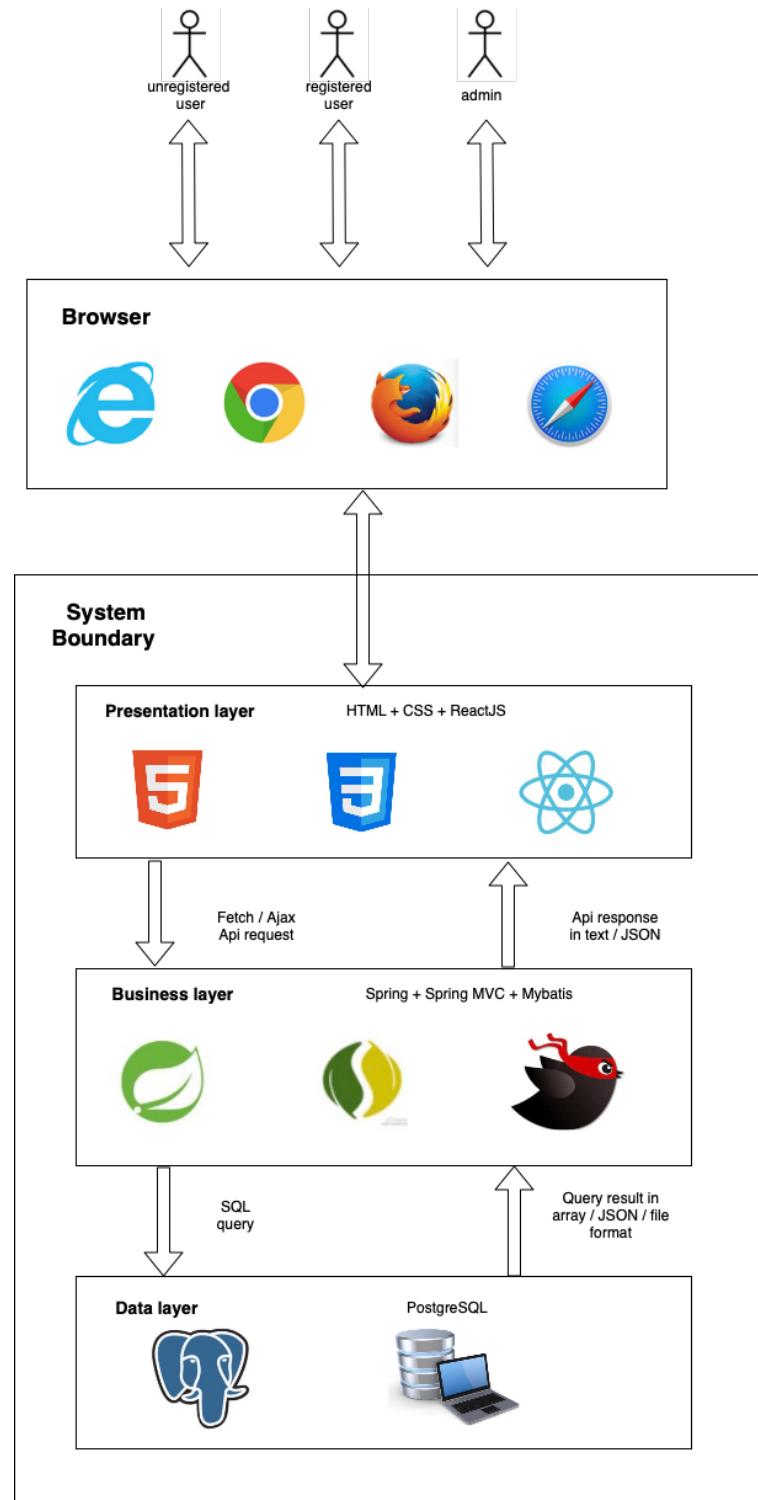


Figure 2 System architecture diagram

4.2. Interface Diagrams

The figure consists of four screenshots of web pages arranged in a 2x2 grid, showing the login and account creation process for 'Scent Searcher'.

- Top Left:** 'Welcome To Scent Searcher' page. It has fields for 'Your Email Address' and 'Your Password'. Below them is a 'Login' button. A link 'Create your account' is at the bottom. A yellow annotation above the password field says: "Existing user login, then direct to the homepage of scent searcher."
- Top Right:** The same 'Welcome To Scent Searcher' page, but with the email field filled with 'xiaoyu@gmail.com' and the password field filled with '*****'. The 'Login' button is present. A yellow annotation above the password field says: "Existing user login, then direct to the homepage of scent searcher."
- Bottom Left:** 'A Web Page' titled 'https://www.Scent Searcher/create-your-account'. It has fields for 'Full Name', 'Email Address', 'UserName', 'Password', 'Confirm Password', and 'gender'. A dropdown menu for 'gender' shows options: 'female' (highlighted in blue), 'male', 'refer not to disclose', and 'gender diverse'. A 'Create My Account' button is at the bottom. A yellow annotation next to the gender dropdown says: "four options for select for gender , after creating successfully (input valid value), it will direct to the homepage of scent searcher."
- Bottom Right:** The same 'create-your-account' page, but with all fields filled: 'Full Name', 'Email Address', 'UserName', 'Password', 'Confirm Password', and 'gender' set to 'female'. The 'Create My Account' button is at the bottom. A yellow annotation below the 'Create My Account' button says: "already have an account, back to [the login page](#)".

Figure 3 Login and create account page

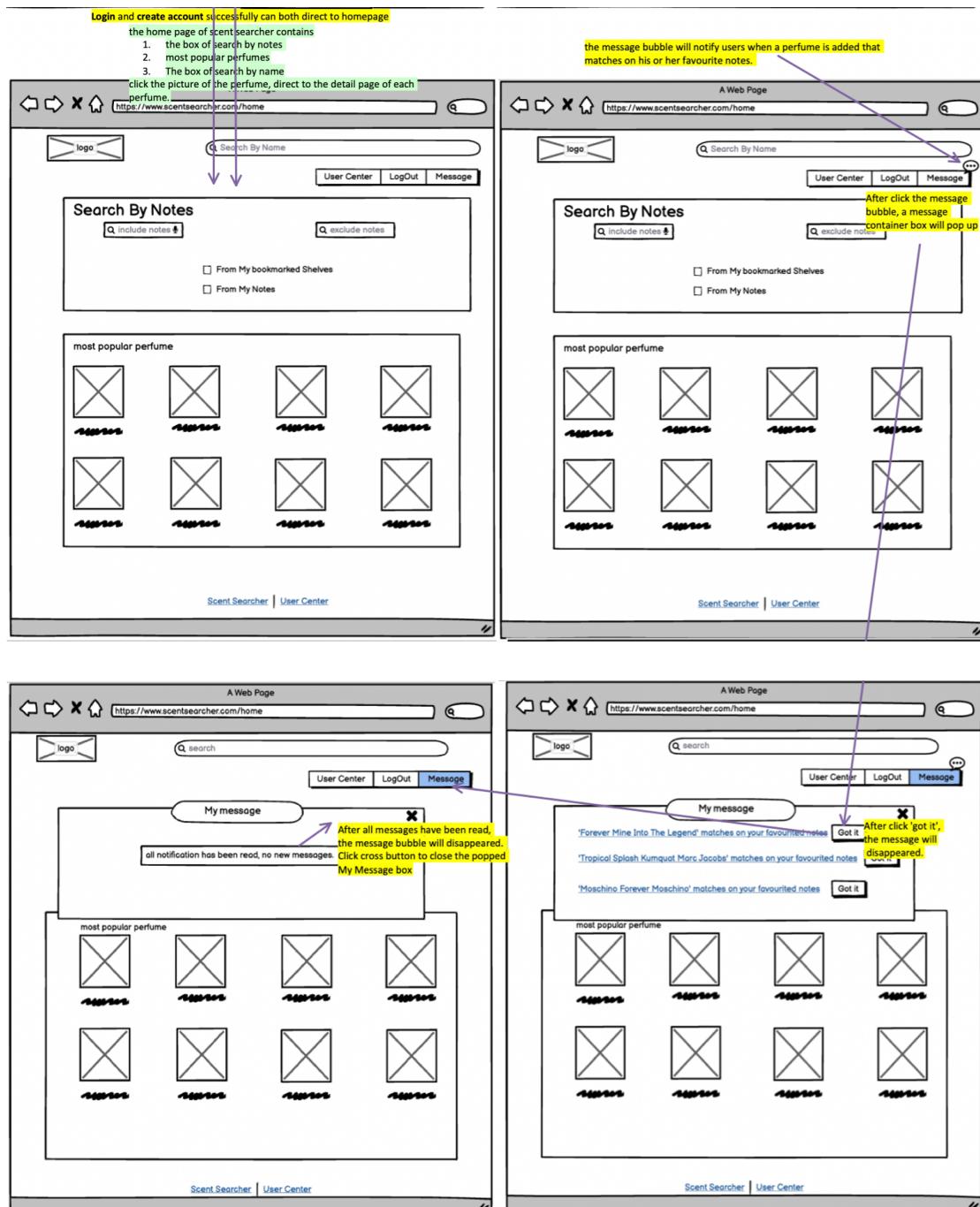


Figure 4 Homepage and message page

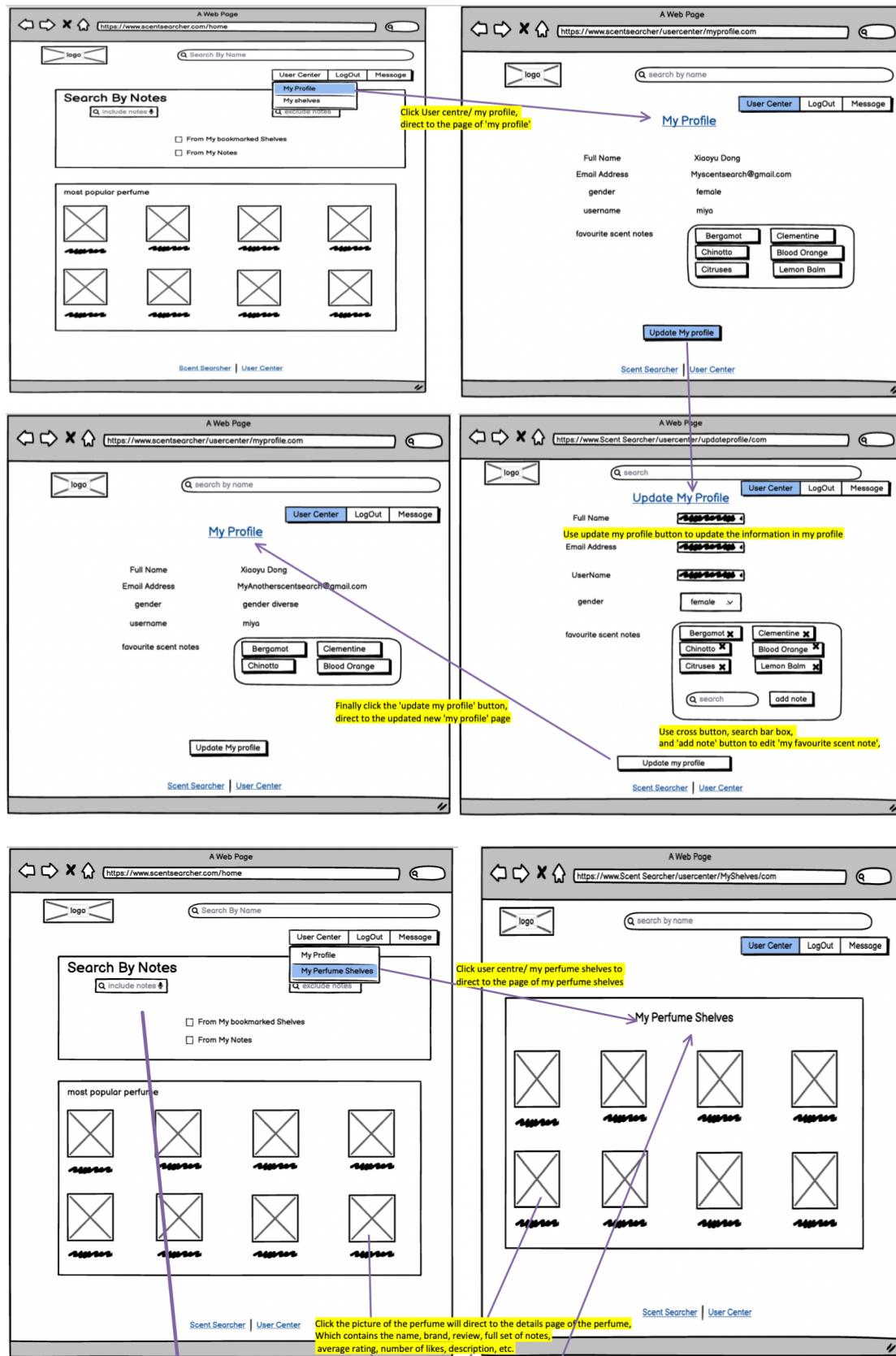


Figure 5 User center page

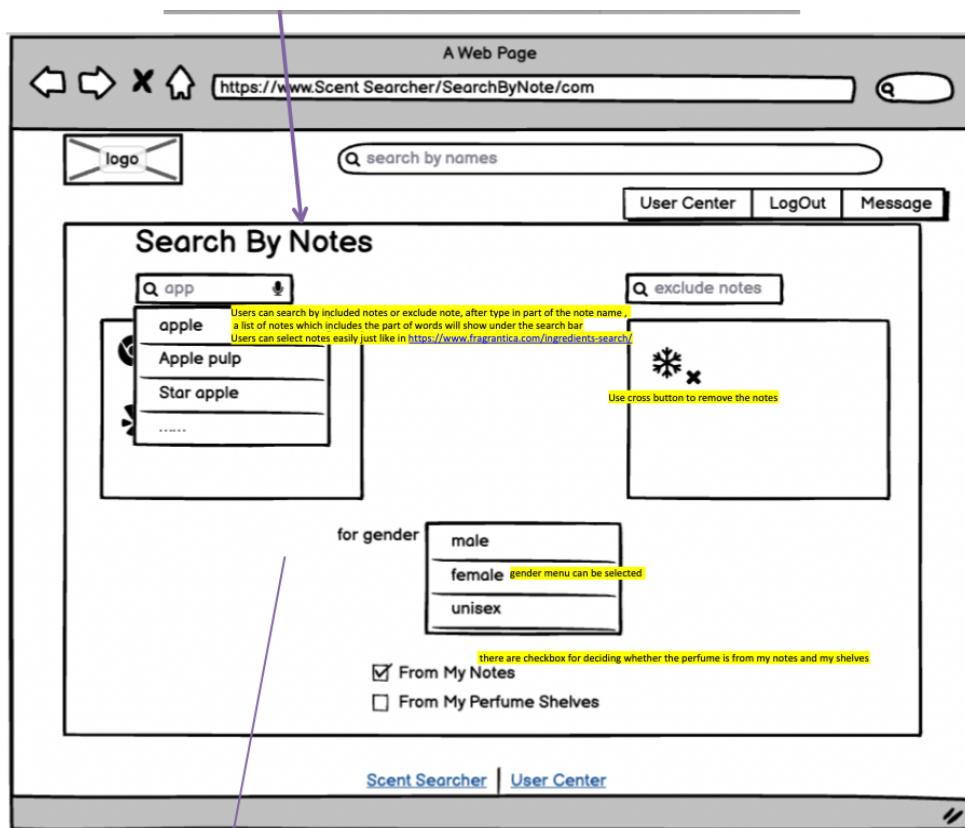
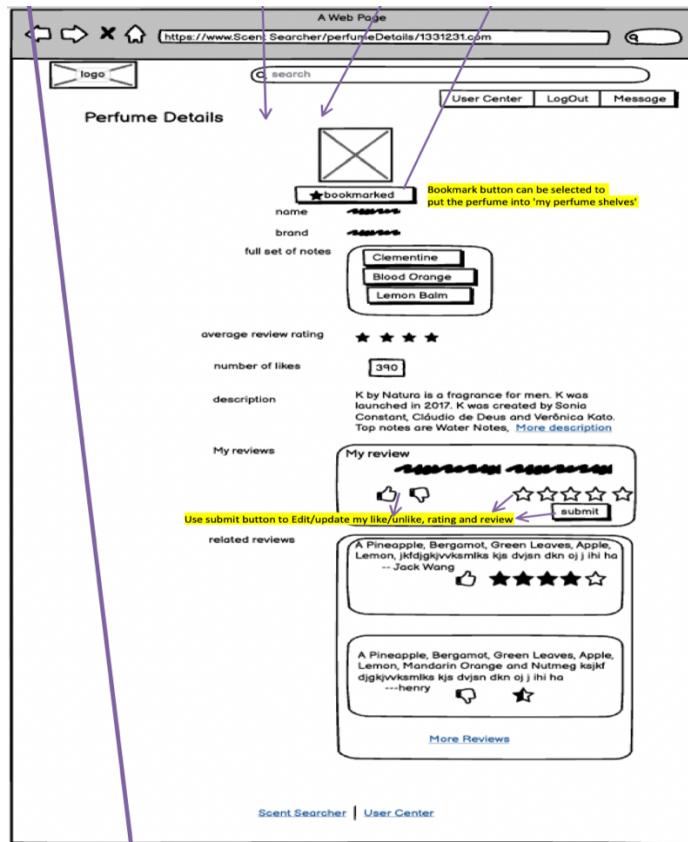


Figure 6 Perfume details page

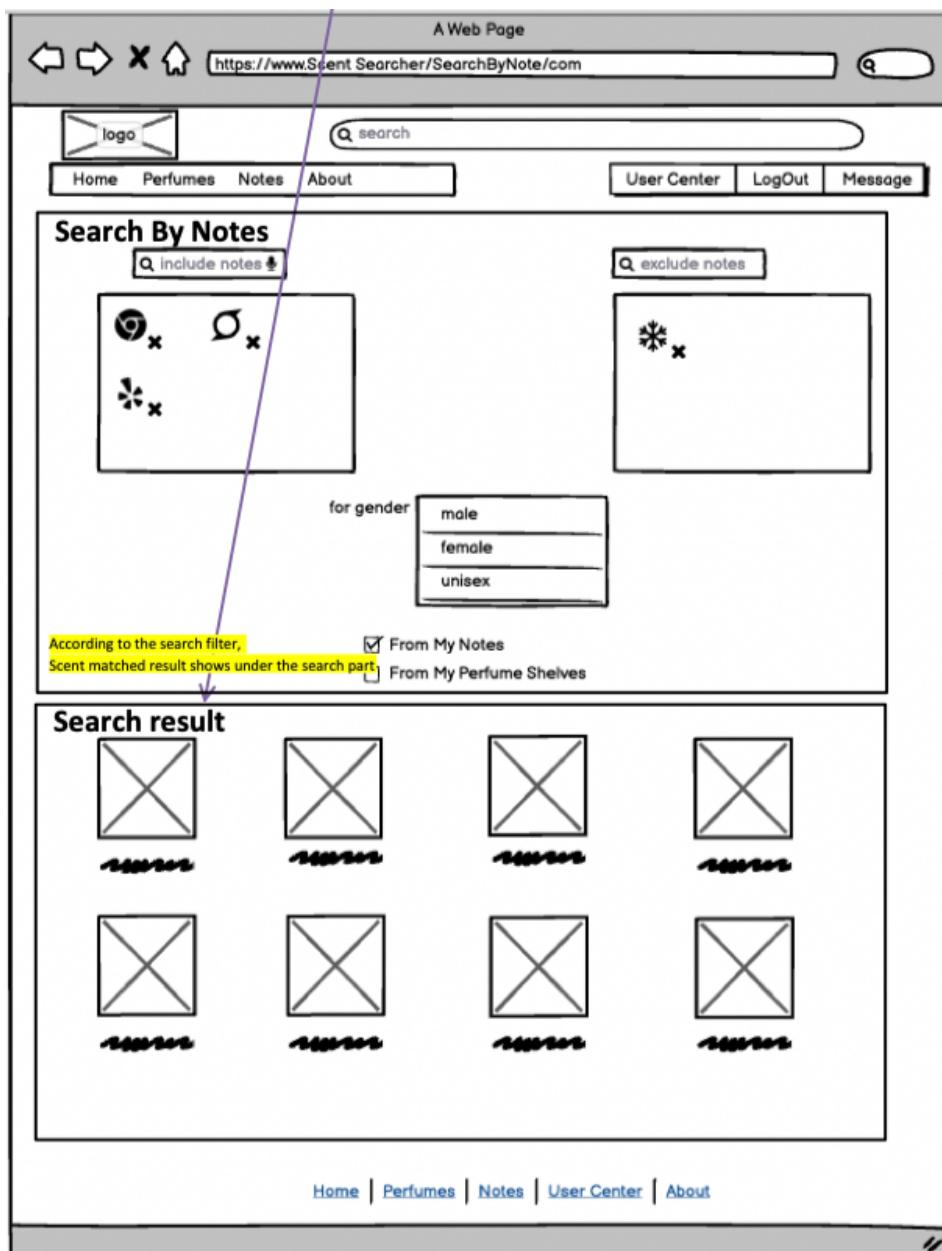


Figure 7 Search details page

A Web Page
https://www.Scent Searcher/Admin/EditPerfume/com

logo search User Center LogOut Message

Admin page

edit a perfume ▾ :

upload the pictures

description of image

insert the name

insert the brand

edit full set of notes

Chinotto X
Citruses X

search add note

description of perfume

Admin page to update/add the perfume's details
update this perfume to scent searcher

Scent Searcher | User Center

Figure 8 Admin page

4.3. Module Flow Diagram

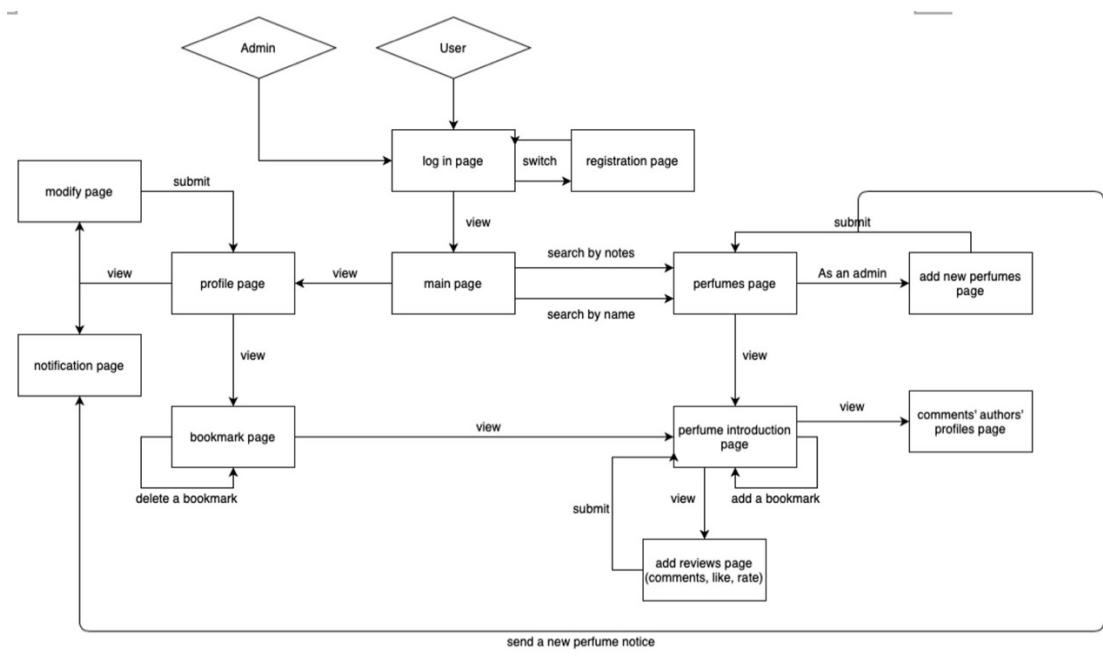


Figure 9 Module flow diagram

5. Project Arrangement

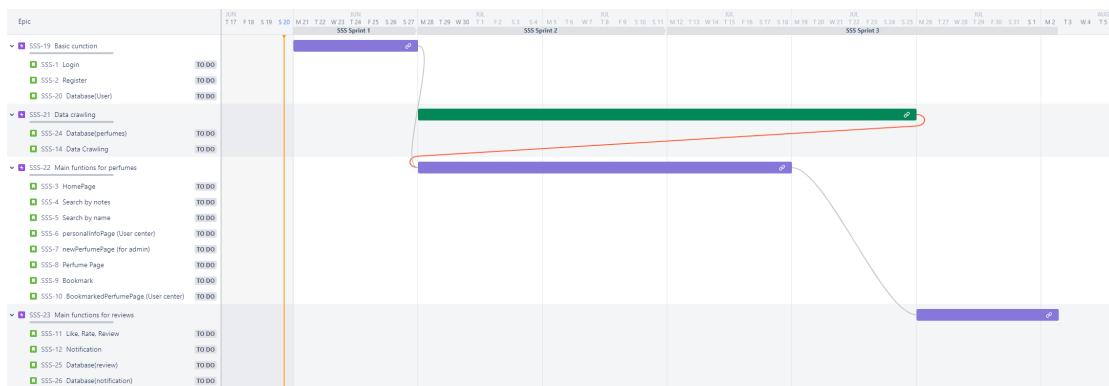
5.1. Roles

| Name | Role |
|-------------|------------------------------------|
| Zhan Gao | Scrum master, full stack developer |
| Yuhao Ding | Backend developer |
| Xiaoyu Dong | Front end developer |
| Yinghan Li | Data-processing developer |
| Tianyi Wu | Data-processing developer |

5.2. Meeting Schedule

| Time | Duration | Approach |
|----------------|----------|----------|
| Tuesday 6pm | 2 hours | Tutorial |
| Tuesday 8.30pm | 1 hour | Teams |
| Saturday 8pm | 2 hours | Teams |

5.3. Gantt Chart



6. Reference

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