

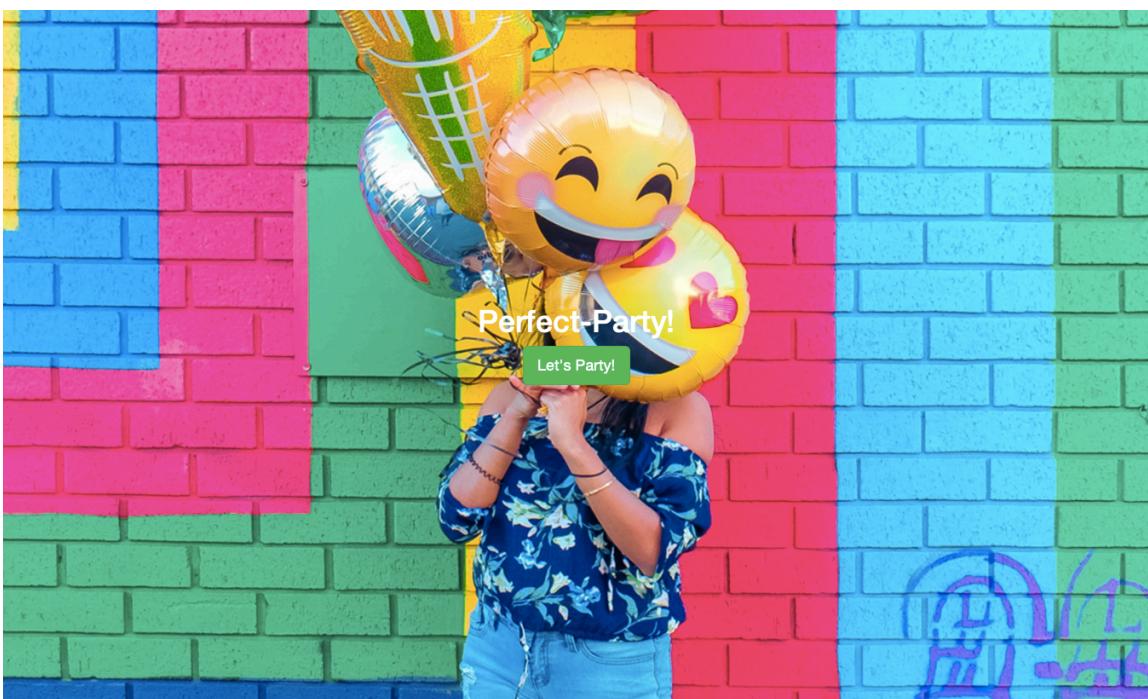
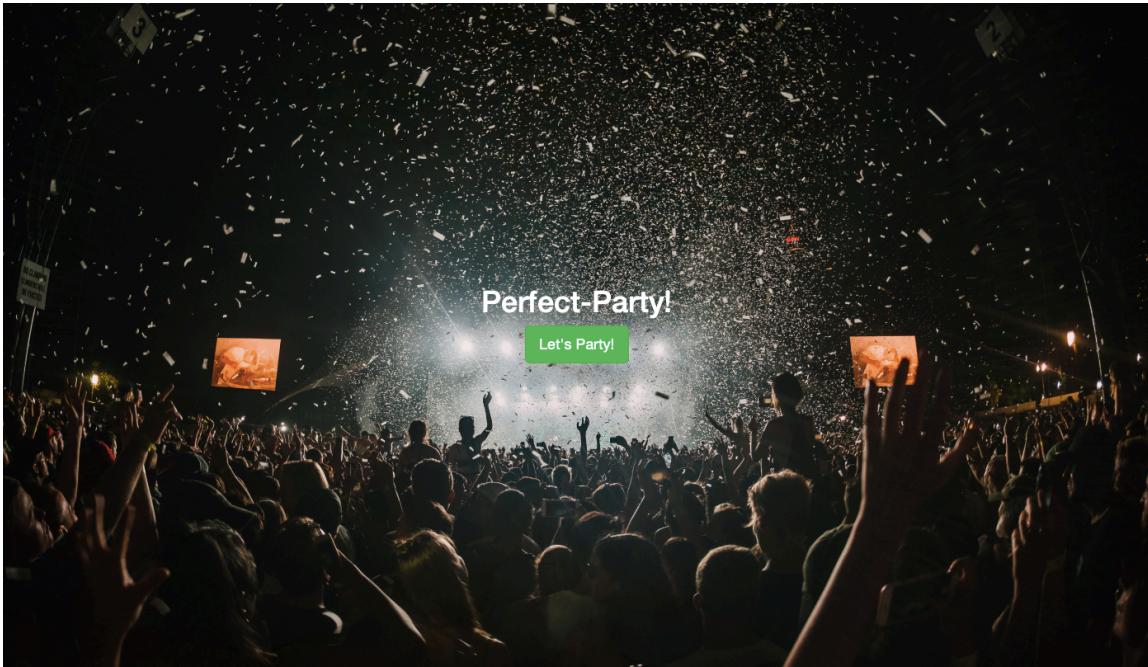
DBMS and Technologies:

1. Perfect-Party is a full stack **Node.js** website that is created under the **Express** framework.
2. Webpages are created by **HTML, CSS, Javascript** and **Bootstrap**.
3. **Restful APIs** are created by the **Express** framework, and they are responsible for transferring data to the webpages and transferring the webpage's data back to the server.
4. The server is integrated with **MYSQL DBMS**, and the database is deployed on **AWS** by using the **RDS** service.
5. Runtime Environment is fully managed by **Docker**, and the website could easily run on any machines.

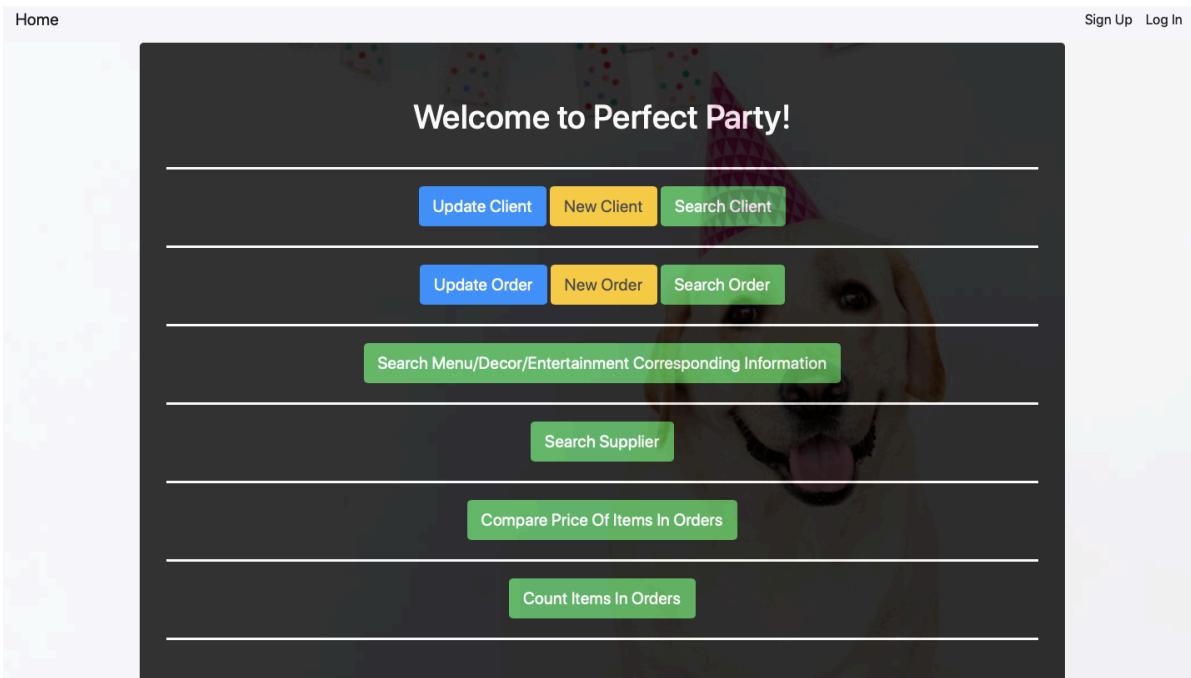
<http://ec2-35-183-25-88.ca-central-1.compute.amazonaws.com:3000>
The website is deployed on AWS, please check it out.

Functionalities and Features:

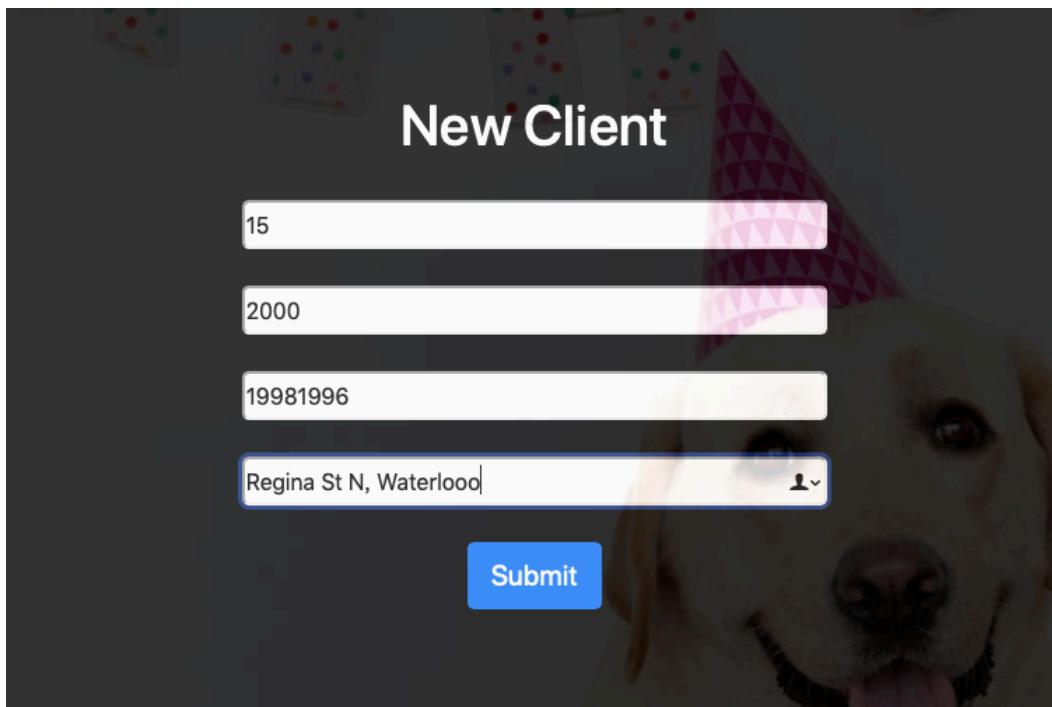
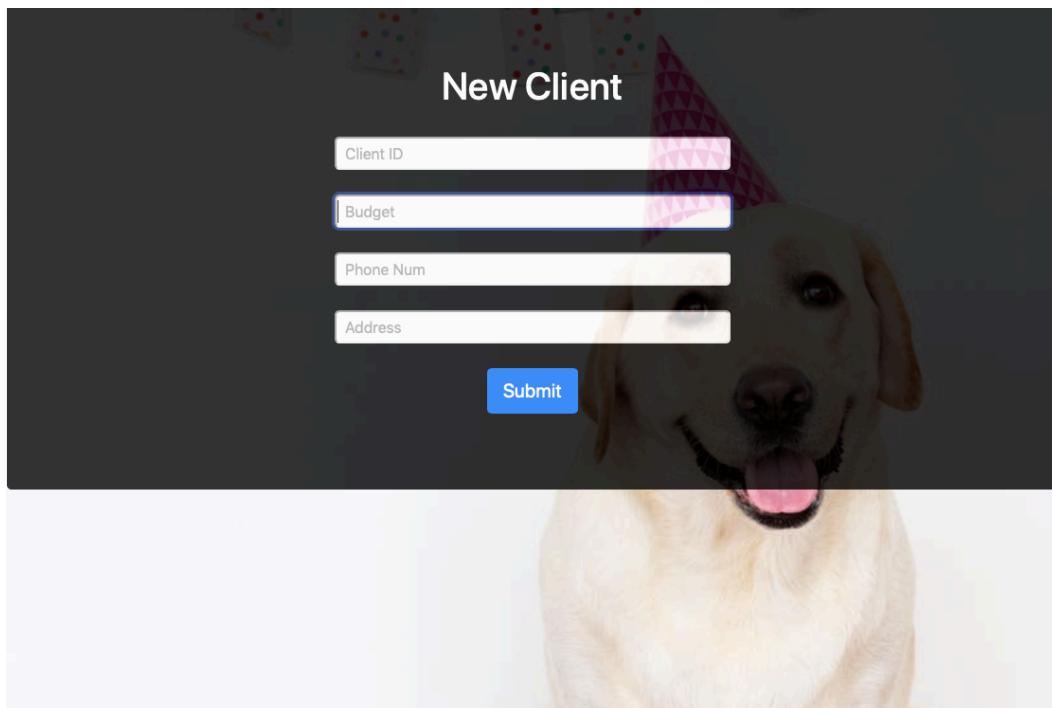
1. The website has a landing page which contains an **animation** that supports background switching for every 5 second. The animation is created by **CSS**.



2. All Modification and Query Interfaces are listed on the home page, user can go back to the home page by clicking the Home link.



3. New Client: It's an interface that supports inserting new client and billing information, the user can insert client ID, budget, phone number and address. An **instant message** will show on the top of the webpage to indicate users the result of their action.



Successfully Added New Client!

Welcome to Perfect Party!

[Update Client](#) [New Client](#) [Search Client](#)

[Update Order](#) [New Order](#) [Search Order](#)

[Search Menu/Decor/Entertainment Corresponding Information](#)

[Search Supplier](#)

[Compare Price Of Items In Orders](#)

[Count Items In Orders](#)

4. Search Client: It's an interface that supports searching clients by adding constraints on billing information. An **instant message** will show on the top of the webpage to indicate user the result of their action. **All options in the select menu are retrieved from the database dynamically. User can do any search for any combination of conditions.** If no condition specify, all records will be shown.

The screenshot shows a search interface titled "Search Client". At the top, there are three dropdown menus: "Client ID", "Choose The Range OF", and "Budget". Below these are input fields for "Phone Num" and a "Search" button. The background features a large image of a yellow dog's face. A light gray table header is visible at the bottom with columns labeled "Client ID", "Budget", "Phone Number", and "Address".

This screenshot shows the same "Search Client" interface as above, but the "Client ID" dropdown is now open, displaying a list of values: 3, 1, 5, 2, 15, and 4. The other input fields and the background dog image are identical to the first screenshot.

Search Client

Client ID

Large Than

Phone Num

Search

Client ID	Budget	Phone Number	Address
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Check Result Below

Search Client

Client ID

Choose The Range OF Budget

Phone Num

Search

Client ID	Budget	Phone Number	Address
1	123	123	123
15	2000	19981996	Regina St N, Waterloo
2	1000	1345667	Regina
5	6677	12345678	Waterloo ca

5. New Order: It's an interface that supports inserting a new order, the user must insert a client Id since an order cannot exist independently. Other information that can be inserted include order ID, number of invitees, location, event, Menu and its quantity, Decor/flower and its quantity, and Music/Entertainment. An **instant message** will show on the top of the webpage to indicate user the result of their action. **All options in the select menu are retrieved from the database dynamically.**

New Order

Order ID

Client ID

Num of Invitees

Event

Venue

Menu

Menu Quantity

Flower/Decor

Flower Quantity

Music/Entertainment

Insert

New Order

150

4

16

Homework Party

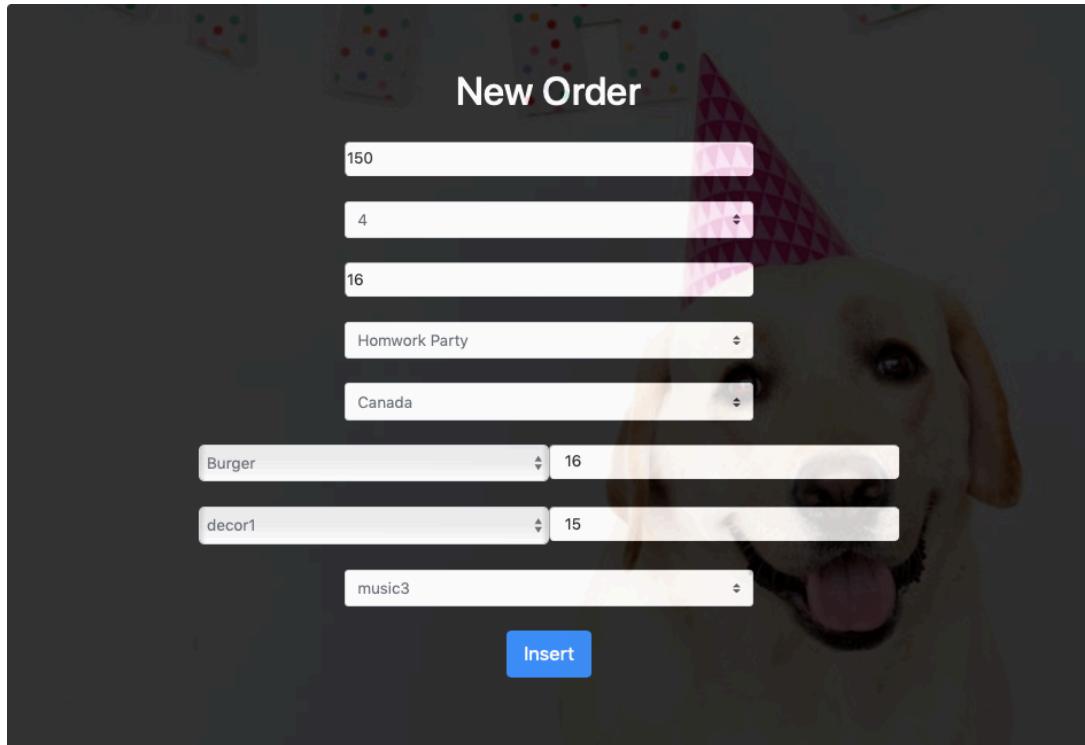
Canada

Burger 16

decor1 15

music3

Insert



Successfully Added New Order!

Welcome to Perfect Party!

Update Client **New Client** **Search Client**

Update Order **New Order** **Search Order**

Search Menu/Decor/Entertainment Corresponding Information

Search Supplier

Compare Price Of Items In Orders

Count Items In Orders

6. Search Order: It's an interface that supports searching orders by adding constraints on all fields that are provided in the new order interface. An **instant message** will show on the top of the webpage to indicate user the result of their action. **All options in the select menu are retrieved from the database dynamically. User can do any search for any combination of conditions.** If no condition specify, all records will be shown.

The image shows a dark-themed search interface titled "Search Order". It features several dropdown menus for filtering search results. The fields include:

- Order ID
- Client ID
- Choose The Range OF Num of Invitees
- Choose The Range OF Total Price
- Event
- Venue
- Menu
- Choose The Range OF Menu Quantity
- Flower/Decor
- Choose The Range OF Flower Quantity
- Music/Entertainment

A central "Search" button is located at the bottom of the form.

Order ID	Client ID	Date	Num Of Invitees	Location	Event	Total Price	Menu	Menu Quantity	Flower/Decor	Flower/Decor Quantity	Music/Entertainment
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Search Order

Order ID

Client ID

Large Than 100

Choose The Range OF Total Price

Event

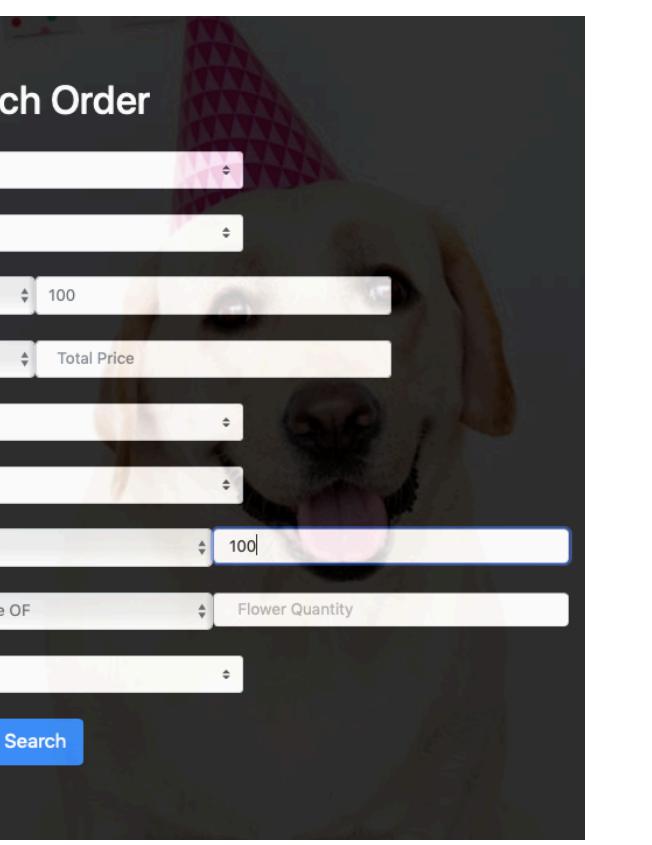
Venue

Burger Large Than 100

Flower/Decor Choose The Range OF Flower Quantity

Music/Entertainment

Search



No Result Found

Search Order

Order ID

Client ID

Choose The Range OF Num of Invitees

Choose The Range OF Total Price

Event

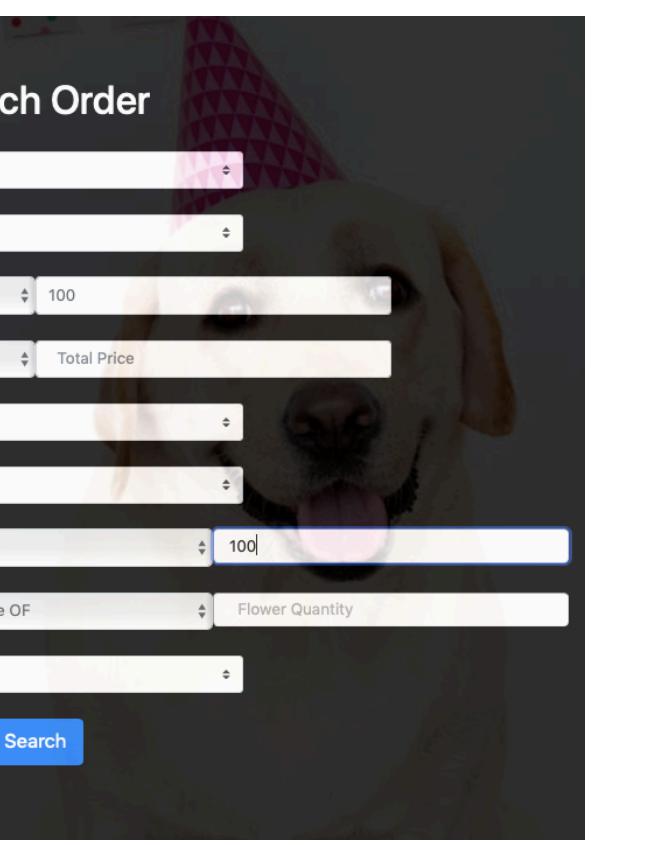
Venue

Menu Choose The Range OF Menu Quantity

Flower/Decor Choose The Range OF Flower Quantity

Music/Entertainment

Search



User can delete a record by clicking the delete button.

Check Result Below

Search Order

Order ID:

Client ID:

Choose The Range Of Num of invitees:

Choose The Range Of Total Price:

Event:

Venue:

Menu: Choose The Range Of Menu Quantity:

Flower/Decor: Choose The Range Of Flower Quantity:

Music/Entertainment:

Search

Order ID	Client ID	Date	Num Of Invitees	Location	Event	Total Price	Menu	Menu Quantity	Flower/Decor	Flower/Decor Quantity	Music/Entertainment
1	1	Sat Jul 27 2019 18:27:20 GMT-0400 (GMT-04:00)	11	Kitchener	CS348	870	drink1	12	flower2	12	music2
150	4	Sun Jul 28 2019 19:10:28 GMT-0400 (GMT-04:00)	16	Canada	Homework Party	310	Burger	15	decor1	15	music3
2	2	Fri Jul 26 2019 02:32:24 GMT-0400 (GMT-04:00)	22	Waterloo	birthday party	3790	Coca	123	decor2	123	music1
3	3	Fri Jul 26 2019 02:47:53 GMT-0400 (GMT-04:00)	1	China	CS348	234	drink2	2	flower2	2	music2
45	2	Sat Jul 27 2019 18:28:45 GMT-0400 (GMT-04:00)	12	Canada	birthday party	250	Burger	4	flower2	4	music3
6	5	Sat Jul 27 2019 18:27:45 GMT-0400 (GMT-04:00)	1	Canada	birthday party	690	Burger	1	decor1	1	dance1

Successfully Deleted!

Welcome to Perfect Party!

Update Client **New Client** **Search Client**

Update Order **New Order** **Search Order**

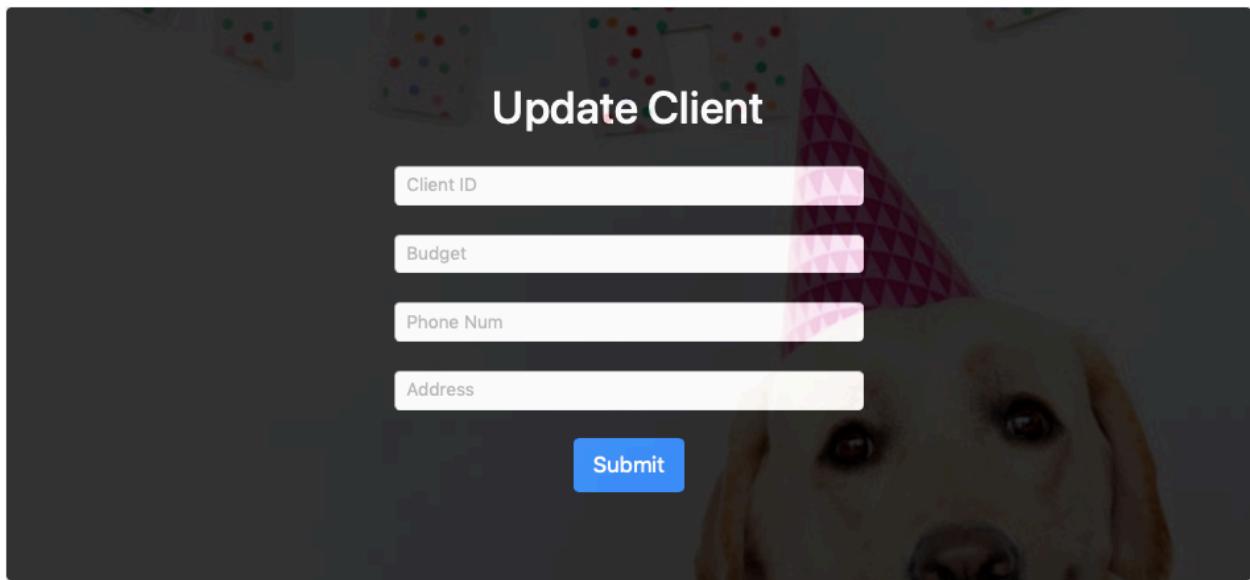
Search Menu/Decor/Entertainment Corresponding Information

Search Supplier

Compare Price Of Items In Orders

Count Items In Orders

7. Update Client: User can update a client's billing information by specifying a client ID and other information needed. An **instant message** will show on the top of the webpage to indicate user the result of their action.



Update Client

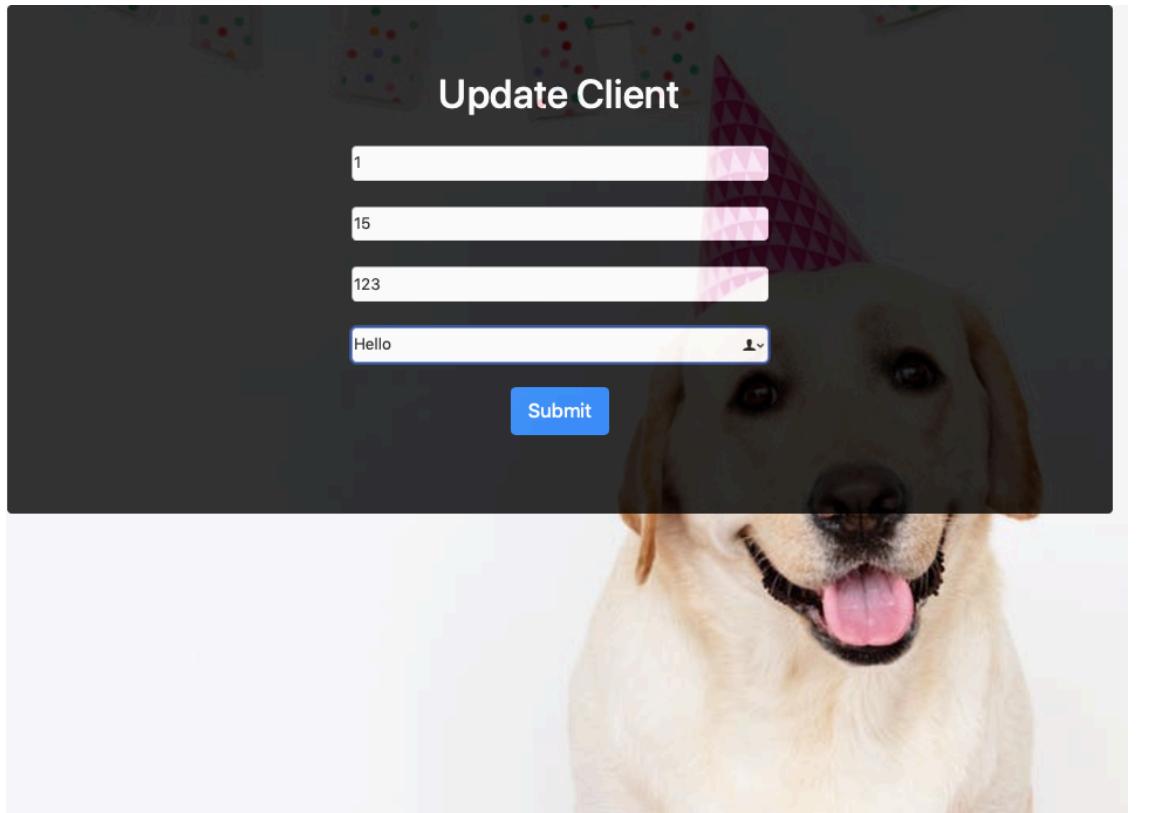
1

15

123

Hello 

Submit



Successfully update client!

Welcome to Perfect Party!

[Update Client](#) [New Client](#) [Search Client](#)

[Update Order](#) [New Order](#) [Search Order](#)

[Search Menu/Decor/Entertainment Corresponding Information](#)

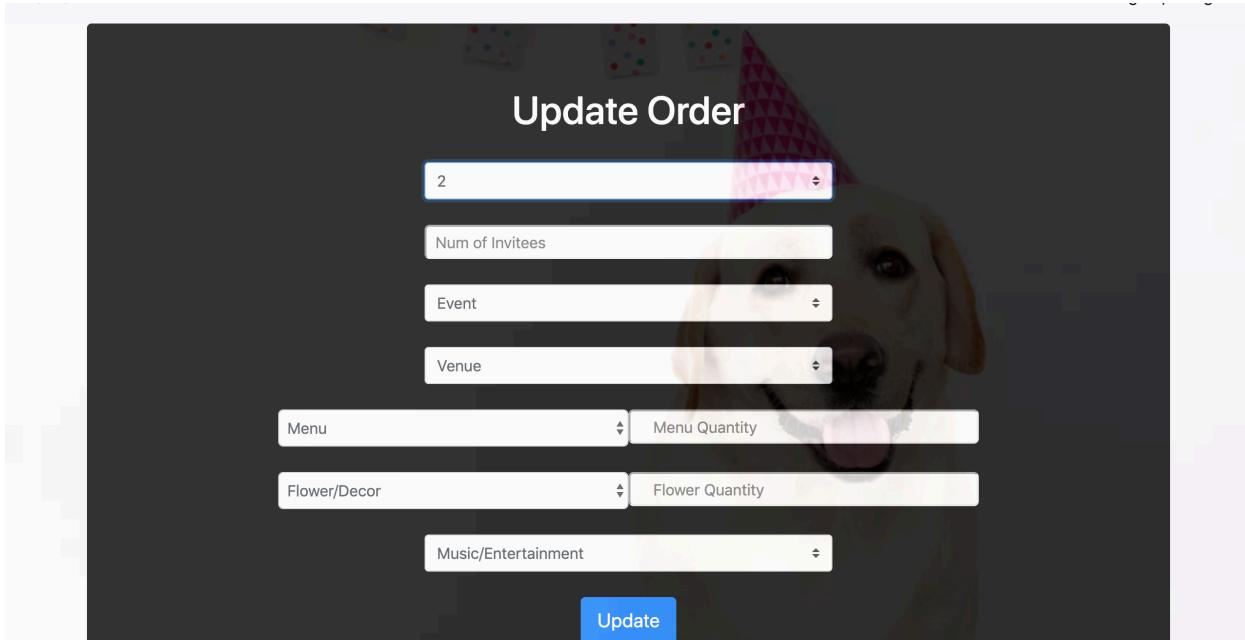
[Search Supplier](#)

[Compare Price Of Items In Orders](#)

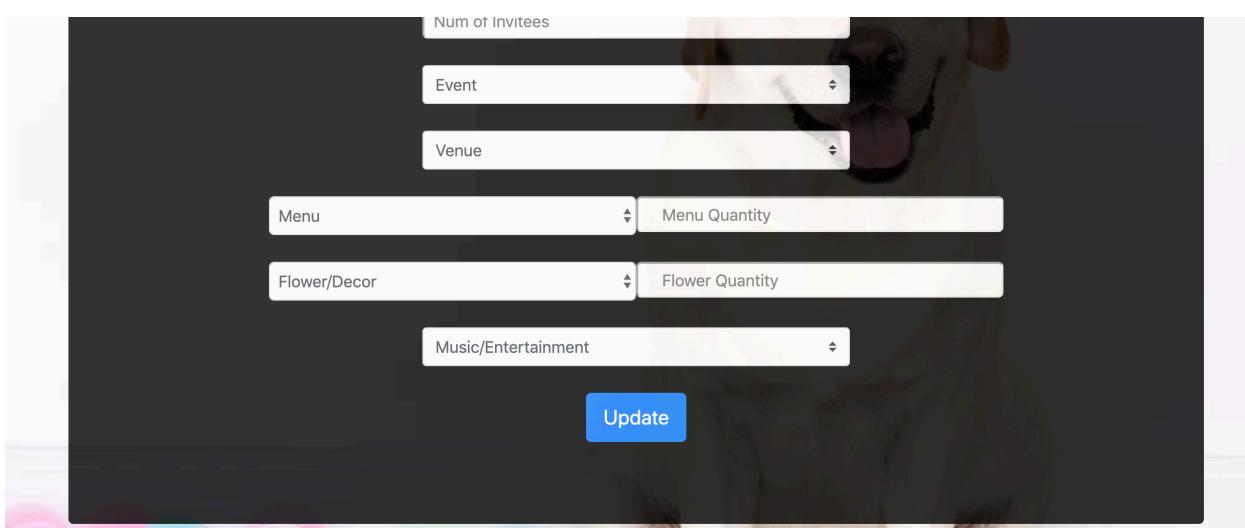
[Count Items In Orders](#)

Update Order:

Taken the ID of order, update optionally with the num of invitees, event, venue, the info of the three type items. No changes happens if the option is empty.



The screenshot shows a modal window titled "Update Order". Inside the modal, there are several input fields and dropdown menus. At the top left is a dropdown menu with the value "2". Below it is a field labeled "Num of Invitees". Further down are dropdown menus for "Event" and "Venue". A horizontal separator bar follows, containing two dropdown menus: "Menu" and "Menu Quantity" on the left, and "Flower/Decor" and "Flower Quantity" on the right. Another horizontal separator bar contains a single dropdown menu for "Music/Entertainment". At the bottom right of the modal is a blue "Update" button. The background of the modal features a photo of a yellow Labrador Retriever wearing a festive party hat.



This screenshot shows the same "Update Order" modal window, but the background image has changed to a close-up of a woman's face. The layout and controls are identical to the first screenshot, with the "Update" button at the bottom right.

ORDER_INFO_ID	Client_ID	ORDER_INFO_Date	Num_Of_Invitees	Location	Event_Type	Total_Price
2	2	Fri Jul 26 2019 02:32:24 GMT-0400 (Eastern Daylight Time)	22	Waterloo	birthday party	3790

Search Menu/Decor/Entertainment Corresponding Information:

Taken the name of items, return the information of supplier, given items, and the number of orders that contains the given items. **All options in the select menu are retrieved from the database dynamically.**

The screenshot shows a web application interface with a navigation bar at the top. On the left is a "Home" link, and on the right are "Sign Up" and "Log In" links. The main content area features a large image of a yellow Labrador dog wearing a pink party hat. Overlaid on the image is a dark overlay with white text. At the top of the overlay, it says "Search Menu/Decor/Entertainment Corresponding Information". Below this, there is a dropdown menu with the following options:

- ✓ All Goods
- Burger
- Coca
- drink1
- drink2
- food1
- food2
- decor1
- decor2
- decor3
- flower1
- flower2
- flower3
- dance1
- dance2
- dance3
- music1
- music2

Below the dropdown, there is a green button with the text "Check Result Below!". Underneath the button, the same "Search Menu/Decor/Entertainment Corresponding Information" text is displayed again. A search input field contains the text "All Goods" and a blue "Search" button is visible. At the bottom of the page, there is a table with the following data:

Supplier_Name	Phone_Num	Menu_Name	Price	Quantity	Numof_Orders
Food Sup	12345	Burger	10	10	2

Compare Price Of Items In Orders:

Taken the type of items and the price(default is 0), return all the orders information which have a higher price of the items than the given price

1. Menu_Total_Price is the total price of all the menu items that the orders contains
2. Using JOIN, subquery, and grouping to make a sql query

Compare Price Of Items In Orders

By Goods

Price

Search

ORDER_INFO_ID	Client_ID	ORDER_INFO_Date	Num_Of_Invitees	Location	Event_Type	Total_Price	Menu_Total_Price
1	1	Sat Jul 27 2019 18:27:20 GMT-0400 (Eastern Daylight Time)	11	Kitchener	CS348	870	180
2	2	Fri Jul 26 2019 02:32:24 GMT-0400 (Eastern Daylight Time)	22	Waterloo	birthday party	3790	1230

Search Supplier: Taken the name of the supplier or the type of items, return the information of the supplier who supplies the given items. Providing two filters conditions, name of the supplier and the type of items to search the matching suppliers.

1. The attributes of table is dynamic according to the query result.

The screenshot shows a web application interface with a dark theme. At the top, there is a search form titled "Search Supplier" with two dropdown menus: "By Supplier Name" and "By Goods", and a "Search" button. Below the form is a table with three columns: "Supplier_Name", "Phone_Num", and "Menu_Name". The table contains four rows of data. At the bottom of the page, there is a green button labeled "Check Result Below".

Supplier_Name	Phone_Num	Menu_Name
Drink Sup	1234	Coca
Drink Sup	1234	drink1
Drink Sup	1234	drink2

Home Sign Up Log In

Check Result Below

Supplier_Name	Phone_Num
Drink Sup	1234

Count Items In Orders:

Taken the ID of orders and the type of items, return the total number of the items. The interfaces would require the two conditions at the same time to make a search.

1. Using JOIN in sql query.

The screenshot shows a web application interface. At the top left is a 'Home' link, and at the top right are 'Sign Up' and 'Log In' links. A green header bar contains the text 'Check Result Below'. Below this is a dark overlay featuring a yellow dog wearing a red party hat. The title 'Count Items In Order' is centered above two dropdown menus: 'By Order ID' and 'By Goods', both currently set to 'By Order ID'. A blue 'Search' button is positioned below the dropdowns. At the bottom, a table displays the results:

Order_Info_ID	Total_Num
1	1