"Perfect Party Company" Web Application

File Hierarchy Visualization

```
the_perfect_party/
--- app.py
├── dbConnect.py
├── db_helper.py
├── templates/
     ├── admin.html
     --- adminDashboard.html
       - dashboard.html
     --- event.html
     - index.html
     ├── login.html
     ├── login2.html
     - order.html
     --- payment.html
     ├── shoppingcart.html
     --- success.html
     --- supplier.html
     ├── supplyRecord.html
       userDashboard.html
     └── orderInfo.html
   - static
     - .. contain all javascript files ..
     .. contain all css files ..
   - bootstrap/
   - env/
- requirements.txt
```

1. Technology and File Description

the_perfect_party is a website demo created for CS348 course at University of Waterloo.

The main features listed below:

Customer Side:

- · Interactice dashboard created using Javascript
- Reponsive shopping cart with real-time tax, shipping, subtotal price calculation
- · Automatic customer information fillin and order status verification
- Customer's ability to delete, escalate any exisiting order information
- Customer login and signup support with validation

Administrator Side:

- Secure login page
- All in one infomormation displayed by each order creation time and status
- Active order notification system
- Search engine based on customer username
- Modification, Escalation, Deletion and Insertion of any past/new orders or events
- Supplier and Stock availability monitoring and modification support.

Technology Breakdown:

```
Backend: /app.py

the_perfect_party web app is deployed as a flask app with backend written in python and connected through GET & POST requests with frontend.

Frontend: /templates/*

Adopted traditional frontend technology including: JQuery(JS), HTML, CSS with stylesheet from Twitter Boostrap

Database: /dbConnect.py and /db_helper.py

Connected with a Mysql server through mysql.connector
```

2. SQL Demonstration

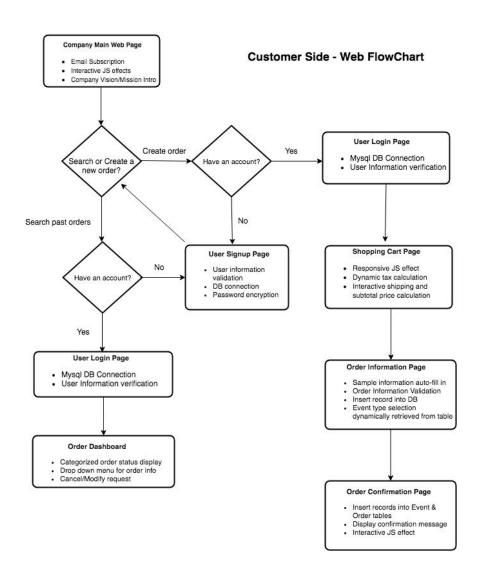
Three are three main parts of SQL code to demonstrate. Please refer to file dbConnect.py and db_helper,py for details.

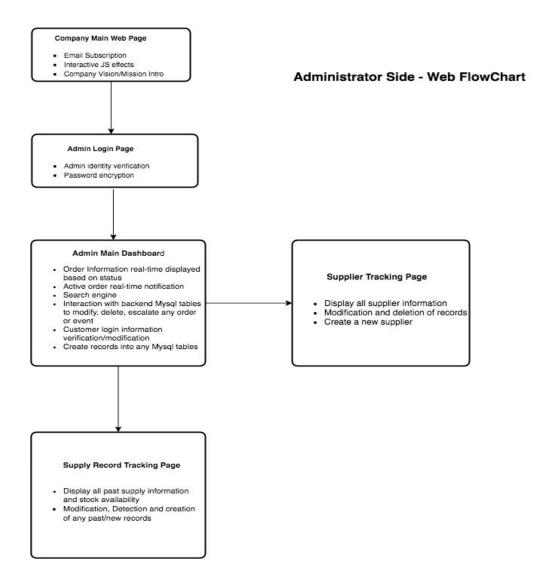
- 1. Database and table creation query
- 2. Creation, deletion and update operations on record
- 3. Select operations with/without specific conditions

2. Bonus Work

- Interactive Company Website
- Responsive Shopping Cart with Shipping and Tax auto-calculated
- Admin page:
 - Active new order notification
 - Real-time Information Modification support
 - o Order dynamically displayed based on status categorization
- Sign up page and user information validation
- Payment Type Dynamic Selection Page

3. Web Page FlowChart

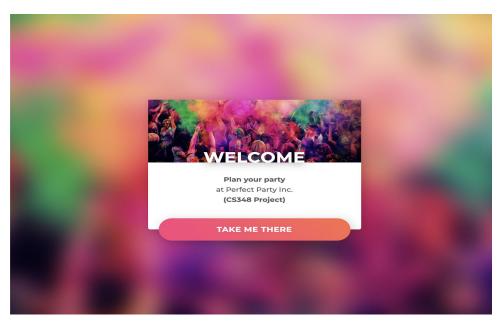




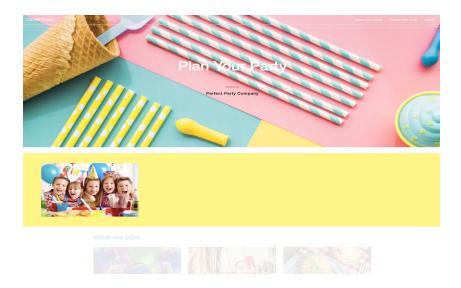
4. Interface Explanation

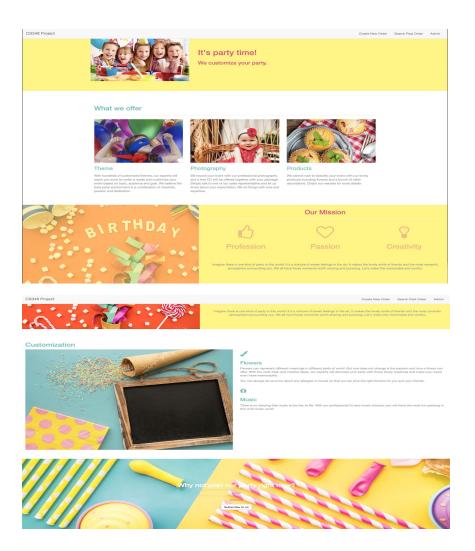
11. Company web page

We have written a welcome page, clicking on the button on the welcome page will take you to the main page.

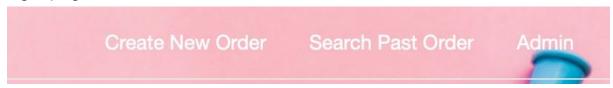


The main page shows the basic information of our company, such as our company's main business, what we offer, why choose us and what can be customized.





We add a toolbar at the top of our main page, the first two button linked to customer login page and the Admin button linked to the admin login page.



2. Login Page

	Welcome. please login.
	Username Password
٠	Sign up for a new account. Login

Customer type in their username and password in the given login page. Username and password pairs are checked by pulling data from database to frontend and validating the pairs, so either non-existing username or incorrect password will lead to rejection of customer page access. Clicking "sign up for a new account" will lead users into the signup page.

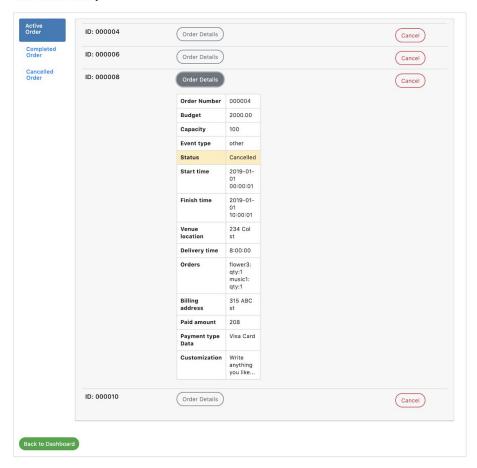
3. Signup

Joi	n Us Sign up for new acco
	Username
	Password
	Repeat Password
	First Name
	Last Name
	Phone Number
	Email
	Home Address
	Postal Code
	Signup

New users need to register for new accounts to gain access into customer page and to be able to make reservation and create orders. They need to fill out all fields specified on the signup pages, such as name, password, phone number, and email. After information is recorded, data is pulled from database to check if the username has already been taken by another user. New account is successfully created if the information pass the duplicate test.

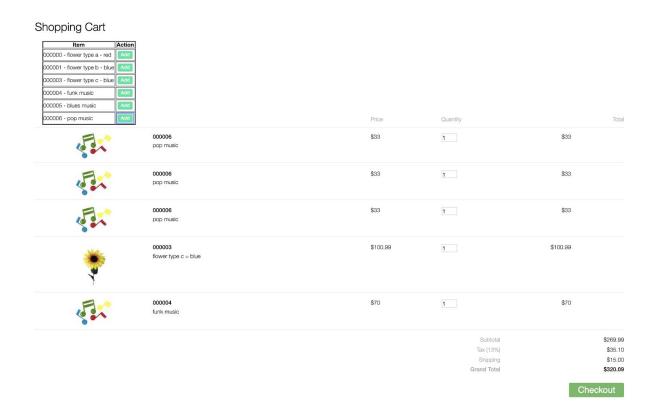
4. order history

Your Order History



There is a separate interface for customers to manage their orders. Specifically, they can view all completed orders in the past. Also, this page shows all cancelled orders that are either made by customers by mistake or rejected by the company Perfect Party due to other reasons. Besides, all active orders are shown and customers are able to cancel those orders before their starting dates. Each order, regardless of its state(completed or cancelled), has its details open for review. After user clicks the "order details" button on any order tab, a drop down table is pulled down, displaying customization, capacity, venue location and other specifics.

5. shopping cart



To finish creating an order, customers need to select all menu items they would like to make use of during their parties. Shopping cart interface will list all available options at the moment, including music choices and flower stocks. Adding any option in the above table will create another row below, which shows the item unit price and has the input box for users to change item quantity(if applicable). After customers have made their selection, prices will be auto-calculated by adding up subtotals, taxes, and auto-loaded shipping expenses. Clicking "checkout" button will redirect user to the payment method selection page.

6. order information form

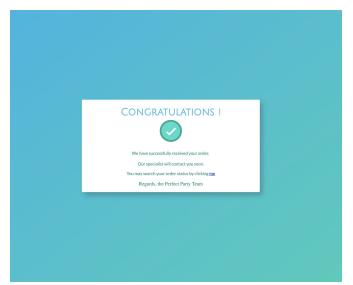
due t	information is verified, you may have a chance such that the order is being rejected o stock or other reasons. Please contact our specialists for details and the payment e reversed in 1-3 business days.
Numbe	r of Invittes
100	
Party S	tart Time
2019-	01-01 00:00:01
Party C	close Time
2019	01-01 10:00:01
Budget	s
2000.	00
Deliver	y Time
08:00	:00
Billing	address
315 A	BC st
Custon	nization Needs
Write	anything you like
	Venue Location (retrieved from venue database) phillips st ◎ 315 King st ◎ 123 Univ st ※ 234 Col st
	Event Type

The order information form is a page where customers need to specify their detailed requirements about the party they are requiring, such as the number of invitees (int), budgets (decimal). They have to fill every blank according to the data type validly, except the customization needs is optional, and they should select a venue location obtained from our database Venue table, as well as an event type. If they click the "Next" button, all information would be automatically saved to our database Order table. We had also notified our customer that after the information has been verified, there is still a chance this order would be rejected due to stock or other reason, and they could contact our specialist. Lastly, autofill is supported if the customer has already saved their relevant personal information to their browser.

7. payment method selection

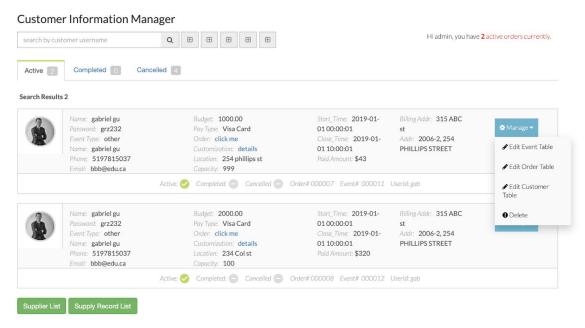


In the payment method selection page, we provide various payment types for customers to choose from, and after they click the "checkout" button, the specific type would be saved to associated Order table in our database. Meanwhile, an Order entity would be created with all essential information such as billing information and event id, and the following page would show on the screen. When a customer or an administrator from the company decides to cancel an order, the order entity would be marked as "canceled," while the according event entity is deleted.



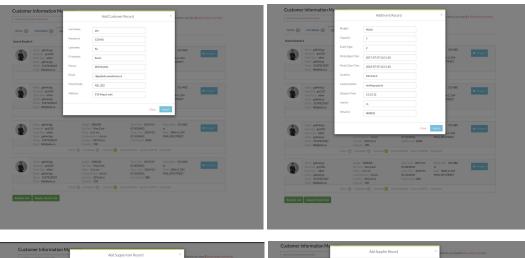
8. admin order manager

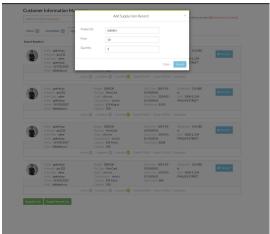
The page of the admin order manager is only permitted for authorized a manager from the "perfect party" company with unique login name and password, and after logged in, a page as follows would show up.

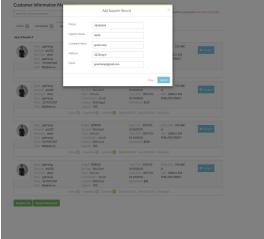


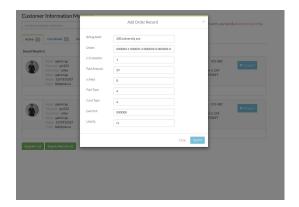
In the top administrator can search order by customer's username, and right beside that, there are five "+" sign, that represents add a customer record, Event record, Supply items record, Supplier record, and Order record, which associated with our database table Customer, Event, Supply_items,Supplier, and Order accordingly as following. Manager can Insert into these table with these functionalities easily. On the top right, there is a line of a reminder of how many active orders the company needs to deal with right the moment in red.

9. New Record Insertion Pop-up window



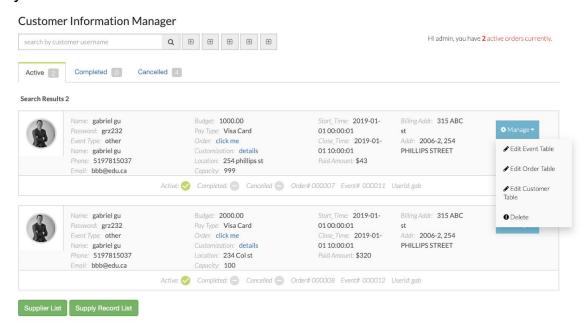


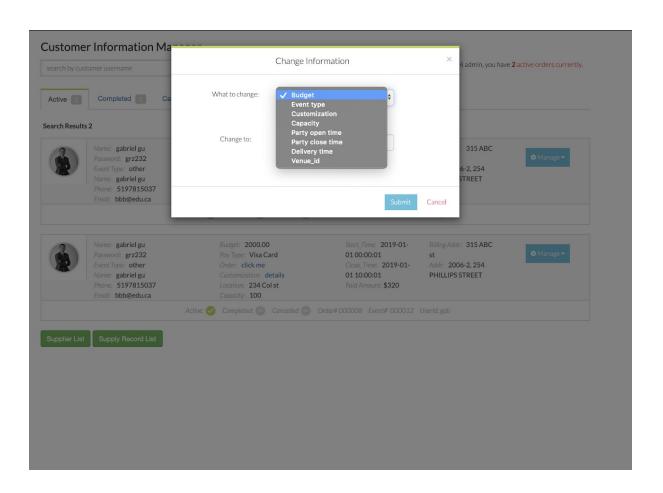


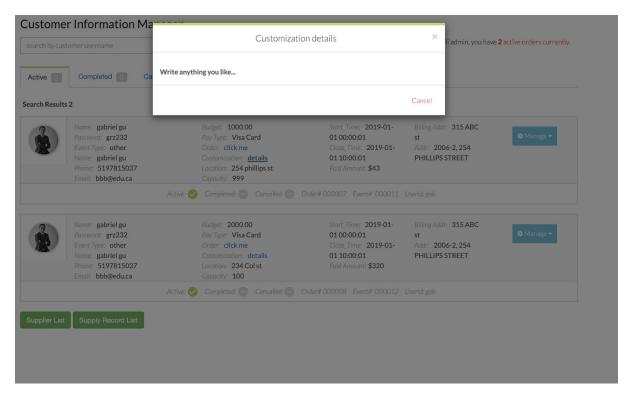


The main dashboard in this page is all data we might need for order placed with our company in three different categories active, completed, and canceled, and the total number of order in each collection is marked by the side as well as a green checkmark beneath each order. Every specific order's information is received from three different tables of our database, Customers, Order, and Event. Manager can modify any of these data or delete an order efficiently by clicking the "manage" button, then choose the table name of information was stored or simply delete. As follows, select the attribute they intend to update, all

these changes are a direct response to our database management system.





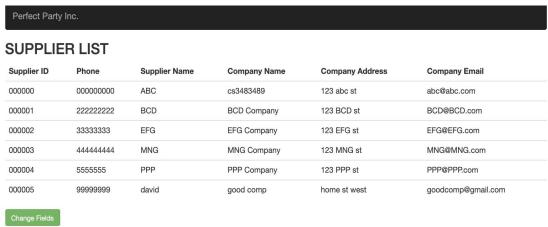


Lastly, the two green button "Supplier List" and "Supply Record List" located on the button would direct us into new interfaces, as demonstrated in (8), and (9).

10. Supplier list page

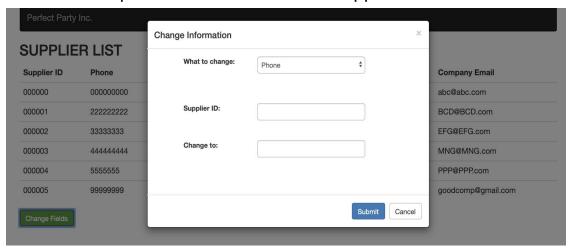
This page shows basic information for all suppliers, including Supplier_ID, Phone, Supplier Name, Company Name, Company Address and Company Email.

In the lower left corner of the page there is another green button that you can use to modify the supplier's information.



When you click this button, a new menu will pop up.

There are three fields in this pop-up menu. You can use the first field to select the field you want to change and set it as the default Phone. Then you can use the second field to decide which supplier you want to modify and use the third one to update a new value to that supplier.

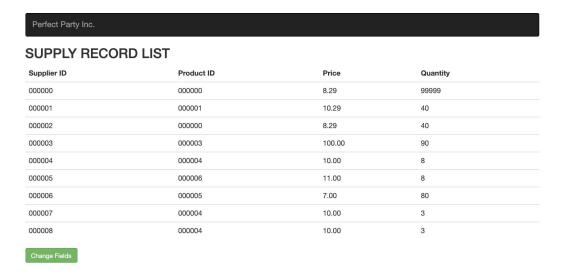


The implementation of this update is found the tuple which has the same Supplier_ID as we entered in the second field and update the value of corresponding attribute.

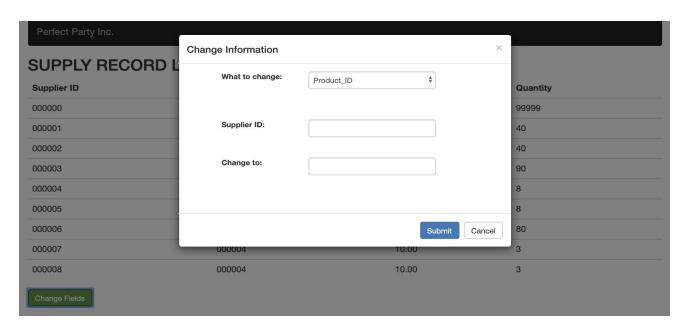
11. Supply record

This page shows basic information for all suppliers, including Supplier_ID,Product ID,Price and Quantity.

In the lower left corner of the page there is another green button that you can use to modify the information of supply record by each supplier.



When you click this button, a new menu will pop up. There are three fields in this pop-up menu. You can use the first field to select the field you want to change and set it as the default Product_ID. Then you can use the second field to decide which supplier's supply



record you want to modify and use the third one to update a new value to that supply record. The implementation of this update is found the tuple which has the same Supplier_ID as we entered in the second field and update the value of corresponding attribute.