Color code for each iteration
- **Iteration 1: Green**
- **Iteration 2: Blue**
- **Iteration 3: Purple**

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Requirements Document

Project Name: DineAlert
Requirements and Specification Document
07/07/2021, version 1

Project Abstract

Our DineAlert web application will provide customers and restaurant owners with two buttons, where they choose either option i.e if they're dining or operating a restaurant. **Customers** will enter their **name**, the **name of the restaurant**, **their email address** and **click on the checkbox (to determine positive)** into a form and will be redirected to a thank you page confirming their submission. We have an admin login page which allows restaurant owners to create an account and login into the system. The credentials can be chosen by each restaurant owner. When creating their accounts, restaurant owners enter the name of their restaurant and choose a unique username and password, which provides them with a list of customers with their contact information, including whether they're positive for COVID-19. If any client is positive, the restaurant will email all the clients (including positive patients), asking them to isolate and get themselves tested for COVID-19.

Customer

Our web application involves two main customers, who will often use our application:
1. Restaurant Owners
2. Diners at the restaurant

Competitive Analysis

The COVID-19 pandemic has digitized the sign-up process for several restaurants, requiring customers to declare their COVID-19 test results before dining in. Therefore, we believe that our main competitors involve restaurant owners, who have created digitally sign-up forms at their physical locations, which allows customers to report their test results. Our project, which is a web application, allows users to report their test results without having to visit the restaurant personally. Compared to our competitors, who require customers to visit a restaurant to sign up, this would save time for customers as well as restaurant owners and reduce the contacts with potential COVID-19 carriers. Furthermore, restaurant owners can easily contact clients directly (using the client information stored in the database) and quickly, sending a mass email rather than individually contacting each customer.

User Stories

Our web application involves the following two actors:

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➔ Customers
➔ Restaurant owners, who are provided admin permissions to view customer information and send each customer email.

List of user stories

Story 1: Warning clients of potential COVID-19 breakout

The customer will be able to declare if he is positive for COVID-19 (by clicking on a checkbox) and mention the specific restaurant he or she visited, including the hour they visited the restaurant. Based on the specific restaurant chosen from the list, that restaurant will email all the other customers (including the positive patient as well), instructing them to get tested and self-isolate for a stipulated time.

Story 2: Restaurants owner can create an Admin Account

The restaurant owner will be able to create an account in order to log in to the DineAlert app. If the restaurant owner uses the DineAlert for the first time, they first click on the "Create account" button, enter the name of the restaurant, username, password and then click on the "Create account" button again to create an account. However, if the username is already taken, they will be prompted to enter a different username. If an account is successfully created, the user information will be submitted to the DineAlert, with a success page confirming the creation of the account.

Acceptance test:

Once account information is submitted, a new row will be created on the Restaurant table, which contains the restaurant owner's restaurant name, username and password.

Story 3: Admin Login

The restaurant owner will be able to login into the system, and view a list of customers, who are positive. This is not accessible to other customers, who visited the restaurant.

If the restaurant owner has an account for the DineAlert, they will be able to log in from the login page. On the login page for the restaurant owner, they enter username, password and then click on the "Login" button. If the correct information is typed in, the restaurant owner will be taken to the page with the message "Logged in!"

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Acceptance test:

Once username and password are typed in, the restaurant owner will be authenticated by searching through the Restaurant table, checking if the provided username exists and if it matches with the provided password. If successfully passed authentication, the page will be redirected to the home.html file.

Story 4: Adding a Dining

The customer will be provided with a form to fill out for them to receive COVID-19 alert notification in the future.

Once they click the "I am dining" button on the home page, they will be taken to the page that contains fields to fill out. On this page, the customer will enter their name, name of the restaurant, email address and then click on the "Submit" button to submit the information they provided. If all required fields are filled, provided information will be submitted to the DineAlert.

Acceptance test:

Once account information is submitted, a new row will be created on the Dining table, which contains the customer's name, name of the restaurant and email address.

Story 5: Admin Logout

The restaurant owner will be able to logout from their DineAlert account.

Acceptance test:

Story 6: Return to Home Page

The restaurant owner and a customer will be able to return to the home page whenever they want.

Whether they are on the login, logged in, or create an account page, they can simply click on the "Return to home" button to go back to the home page. Once the button is clicked, they will be taken to the home page where they choose if they are dining or running a restaurant.

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Acceptance test:

Once the restaurant owner or a customer clicked the "Return to home" button, the page will be redirected to the index.html file.

Story 7: Return to Admin Login Page

The restaurant owner will be able to return to the admin login page from creating an account page.

When the restaurant owner is on the creating an account page, they can simply click on the "Back to Admin Login" button to go back to the admin login page. Once the button is clicked, they will be taken to the admin login page where they enter their user information to login.

Acceptance test:

Once the restaurant owner clicked the "Back to Admin Login" button, the page will be redirected to the adminlogin.html file.

User Interface Requirements

Initially, the user (customer/restaurant owner) will be provided with two buttons, depending if they're dining or running a restaurant.

- **Sketches of interfaces**
  - **Restaurant owner interface**

Color code for each iteration
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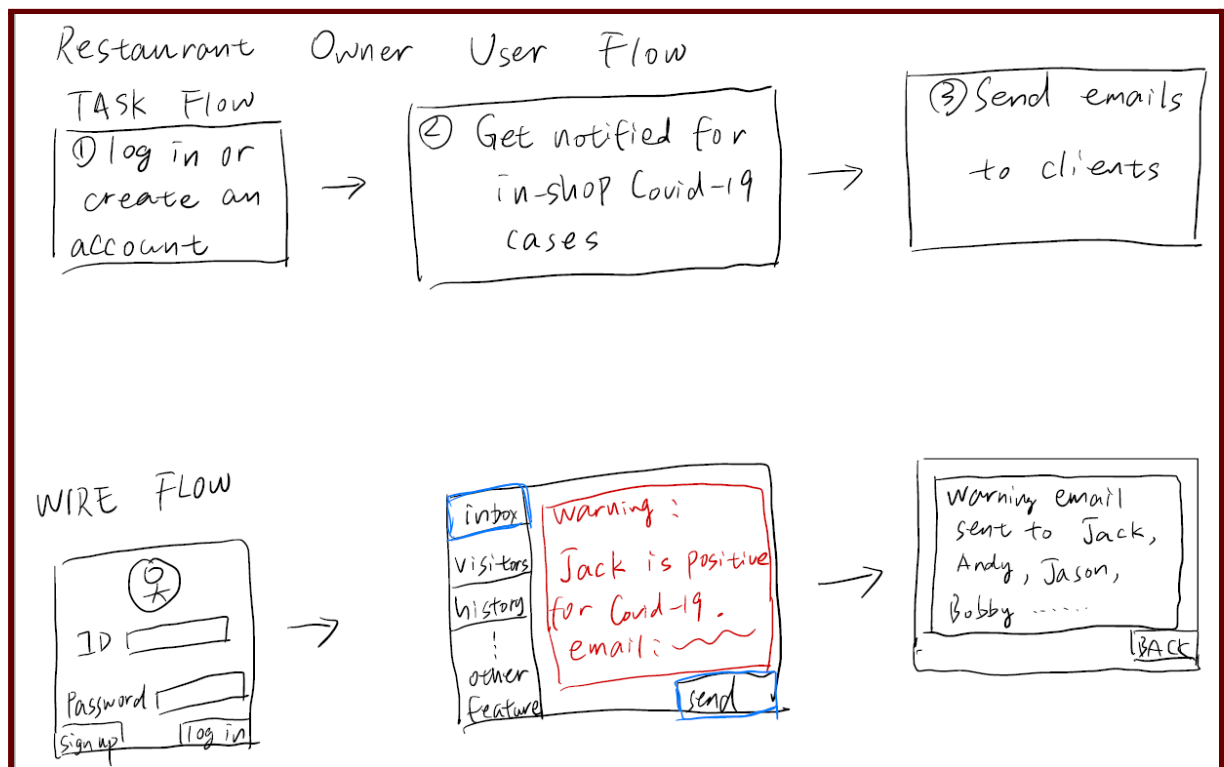- **Iteration 2: Blue**
- **Iteration 3: Purple**

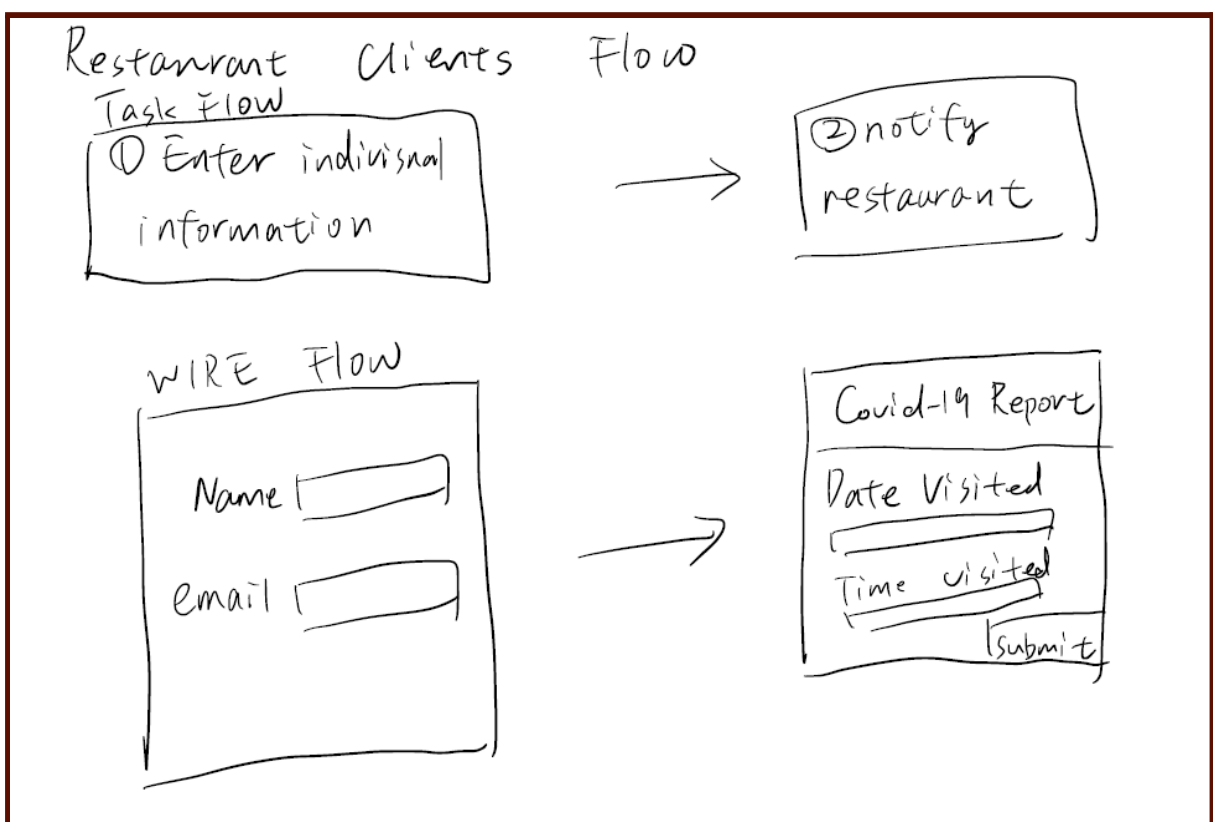Tauseef Kashtwari 301279712
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Restaurant Owner User Flow

TASK Flow

① log in or create an account → ② Get notified for in-shop Covid-19 cases → ③ Send emails to clients

WIRE FLOW

ID [ ]
Password [ ]
Sign up | log in
→
inbox | Warning:
Visitors | Jack is positive for Covid-19.
history | email: ~~~
other Feature | send
→
Warning email sent to Jack, Andy, Jason, Bobby ......
BACK

- **User Interface**

Restaurant Clients Flow

Task Flow

① Enter individual information → ② notify restaurant

WIRE Flow

Name [ ]
email [ ]
→
Covid-19 Report
Date Visited [ ]
Time visited [ ]
Submit

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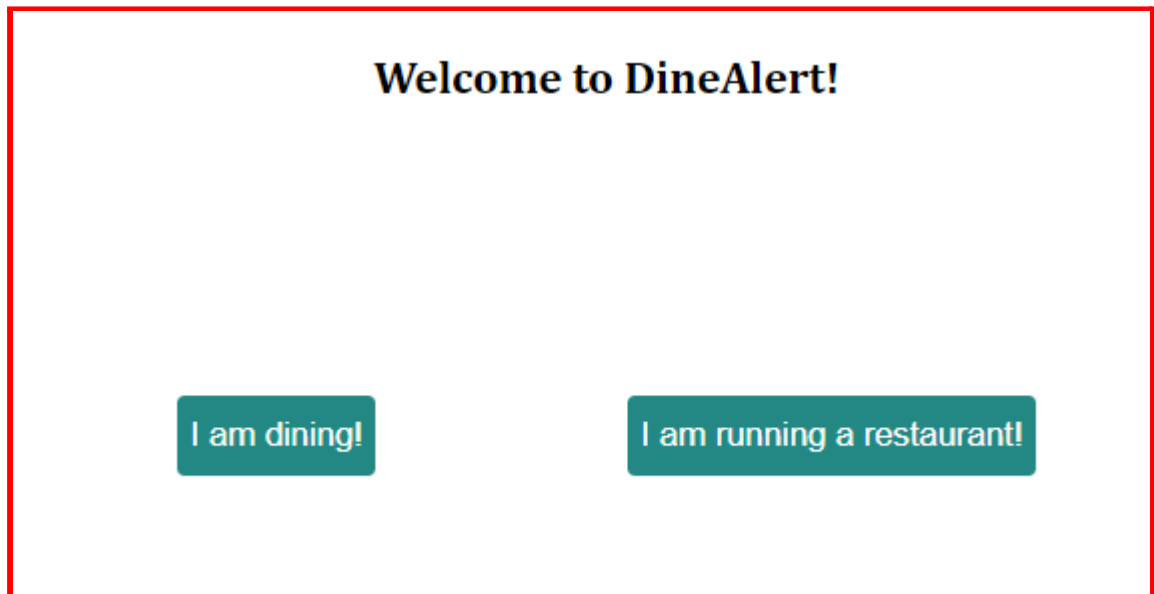Shintaro Morikawa 301435113
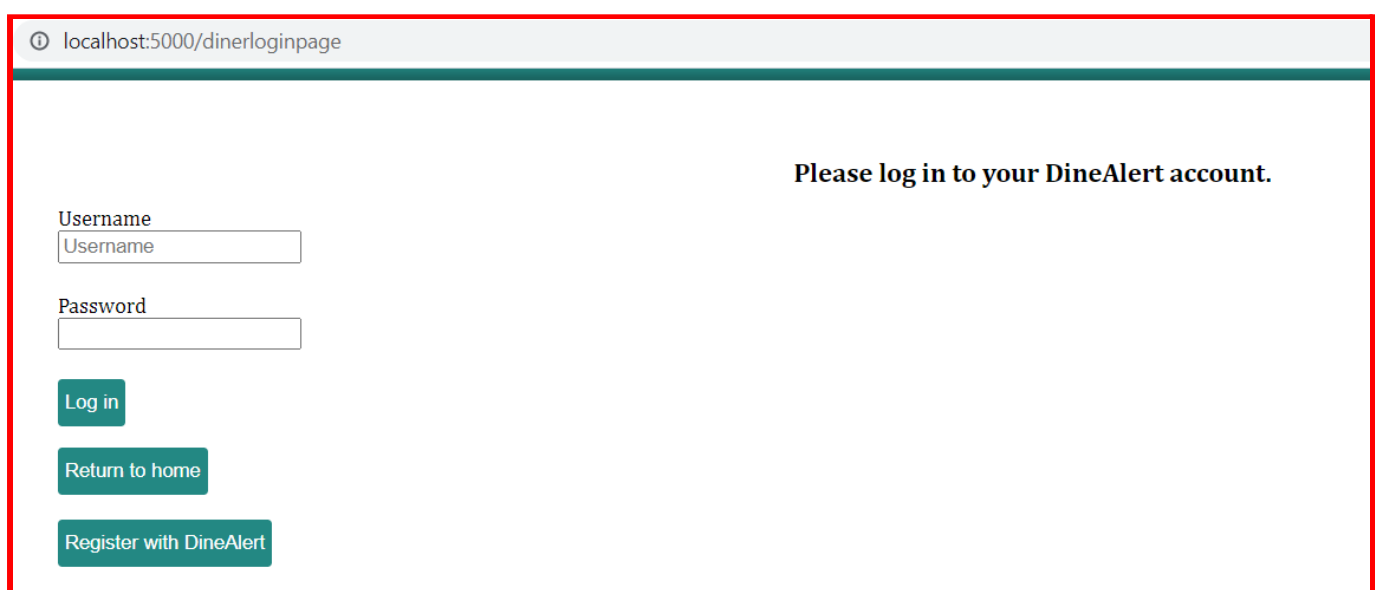Gaelan O'Shea-McKay 301267831
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Some Screenshots of working app
- **Homepage**

- **I am dining page**

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- **Register page**
  - **Password set is tauseef**
  - **Need to have unique username (username tauseef existed, so username set to tauseefkashtwari).**
  - **Need to have unique email as well otherwise error exists**

Username
tauseefkashtwari

Name
tauseef

Email
tauseef@tauseef.com

Password
••••••••

Create account

Username already exists, please try another.

Return to Homepage

Back to Diner Login

Username
tauseefkashtwari

Name
tauseef

Email
tauseef@tauseef.com

Password

Create account

Email already registered, please try another.

Password = tauseef

- **I am running a restaurant page**

Diner Information

ID	Name	Email	Time	Date	
6	tauseef	tauseef@gmail.com	13:27:29	2021-07-07	DELETE

Log Out