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

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<u>**Requirements Document**</u>

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

<u>Project Abstract</u>

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. Both customers and restaurant owners will **login** with their username and password. When registering their restaurants, owners will enter the **restaurant name, a unique username and password.** The credentials can be chosen by each restaurant owner. Once logged in, restaurant owners have 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.

Customers will enter their **username, name**, **their email address** and **password** into a form and will be redirected to a thank you page confirming their submission.

<u>Customer</u>

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

<u>Competitive Analysis</u>

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.

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User Stories

Our web application involves the following two <u>actors:</u>
➔ Customers
➔ Restaurant owners, who are provided admin permissions to view customer information and send each customer email.

Story 1: Warning clients of potential COVID-19 breakout (Iteration 1)

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 (Iteration 1)

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. Similarly, if the "Create account" button was clicked without filling out all the fields, they will be prompted to fill out the empty field(s). 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 Restaurants table, which contains the restaurant owner's restaurant name, username and password.

Story 3: Admin Login (Iteration 1)

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.

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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. However, if the "Login" button was clicked without entering both username and password, they will be prompted to fill out the empty field(s). If the correct information is typed in, the restaurant owner will be taken to the diner information page with the message "Logged in!" If not, the restaurant owner will be notified that either the username does not exist or the password is wrong.

Acceptance test:
Once username and password are typed in, the restaurant owner will be authenticated by searching through the Restaurants 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, which is the diner information page.

Story 4: Customer can create an Diner Account(Iteration 1)
The customer will be able to create an account in order to log in to the DineAlert app. If the customer uses the DineAlert for the first time, they first click on the "Register with DineAlert" button, enter the username, name, email address, password and then click on the "Create account" button to create an account. However, if the username is already taken, they will be prompted to enter a different username. Similarly, if the "Create account" button was clicked without filling out all the fields, they will be prompted to fill out the empty field(s). 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 Diners table, which contains the customer's username, name, email address and password.

Story 5: Diner Login(Iteration 1)
If the customer has an account for the DineAlert, they will be able to log in from the login page. On the login page for the customer, they enter username, password and then click on the "Login" button. However, if the "Login" button was clicked without entering both username and password, they will be prompted to fill out the empty

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field(s). If the correct information is typed in, the customer will be taken to the page where they fill out a dining report form. If not, the customer will be notified that either the username does not exist or the password is wrong.

Acceptance test:
Once username and password are typed in, the customer will be authenticated by searching through the Diners 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 diningreport.html file, which is the page for the customer to fill out a dining report form.

Story 6: Adding a Dining(Iteration 1)
The customer will be provided with a form to fill out for them to receive COVID-19 alert notification in the future. After the customer logged in to their DineAlert account, 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. However, if the "Submit" button was clicked without filling out all the fields, they will be prompted to fill out the empty field(s). 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 Dinings table, which contains the customer's name, name of the restaurant and email address.

Story 7: Admin Logout(Iteration 1)
The restaurant owner will be able to successfully log out from their DineAlert account. When the restaurant owner is on the diner information page, they can simply click on the "Log Out" button to log out from their account. Once this button is clicked, they will be taken to the admin login page where they enter login details.

Acceptance test:
As the owner may be logged in, upon clicking the "Log Out'' button, the user will be redirected to the index.html file, which is the homepage.

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Story 8: Delete Diner(Iteration 1)

The restaurant owner will be able to remove a specific diner from their diner information list. There will be the "delete" button next to each diner on the diner information list. If the restaurant owner wants to remove a specific diner, they can click on this button, and the diner will no longer be on their list.

Acceptance test:

Once the restaurant owner clicks the "delete" button, the row that contains information about the diner whose "delete" button was clicked will be deleted from the Dinings table.

Story 9: Return to Home Page(Iteration 1)

The restaurant owner and customer will be able to return to the home page whenever they want. Whether they are on the login 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.

Acceptance test:

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

User Interface Requirements

Initially, the user (customer/restaurant owner) will be provided with two buttons, depending if they're dining or running a restaurant. Restaurant owners will be directed to a login page, with a registering account button ('Create account').

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

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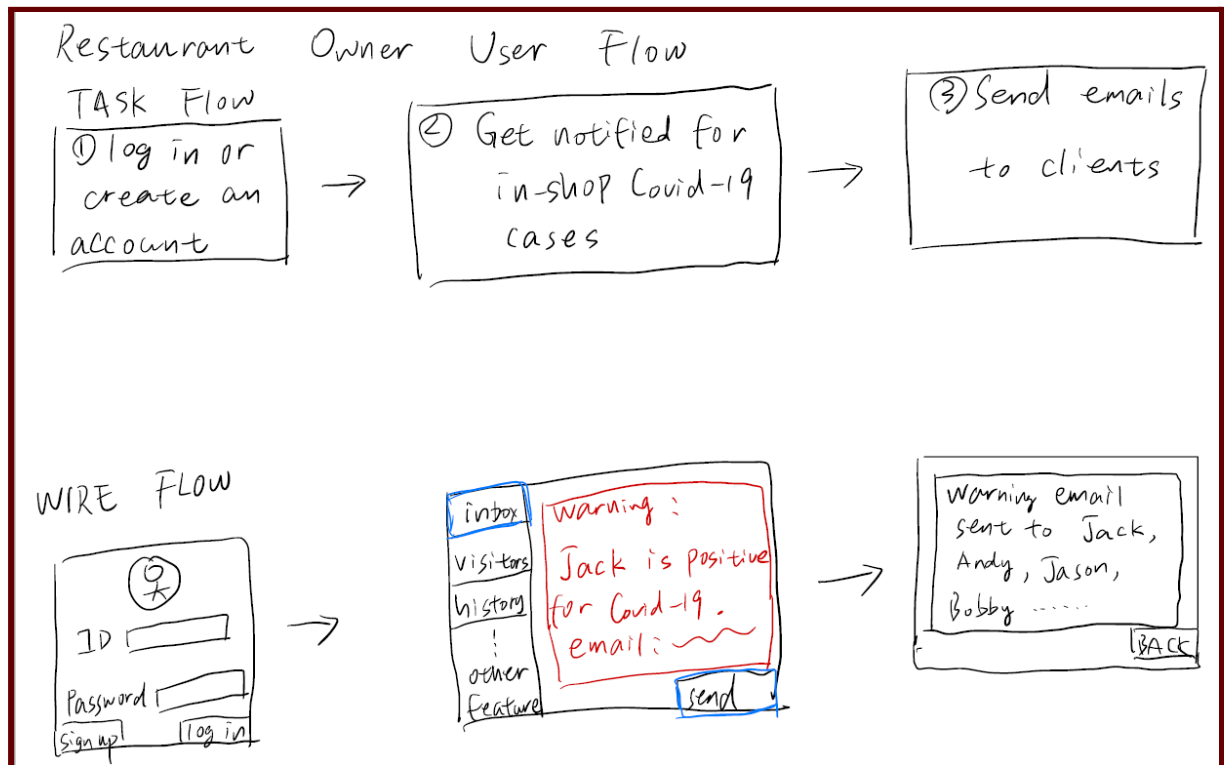- **Iteration 2: Blue**
- **Iteration 3: Purple**

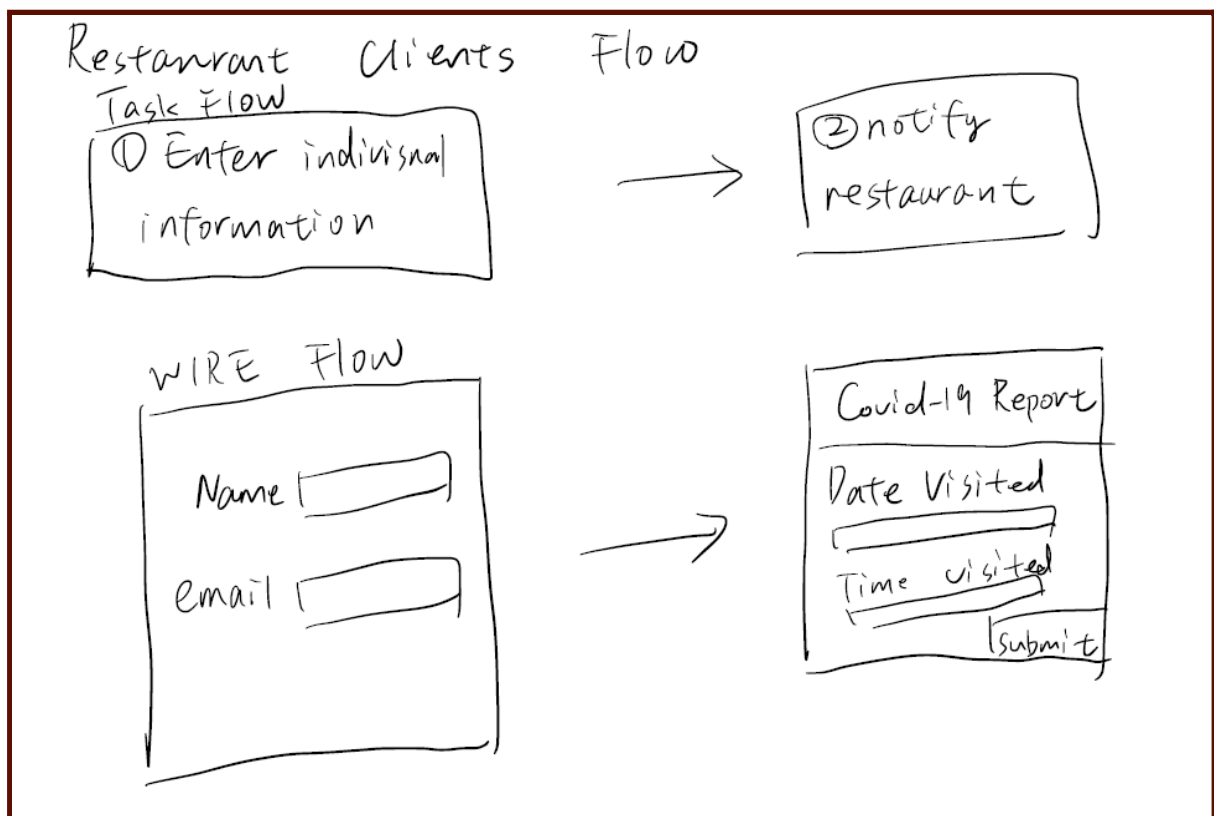Tauseef Kashtwari 301279712
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Restaurant Owner User Flow

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
visitors
history
⋮
other feature

warning:
Jack is positive for Covid-19.
email: ~~~
send

→

Warning email sent to Jack, Andy, Jason, Bobby ......
BACK

b) Client 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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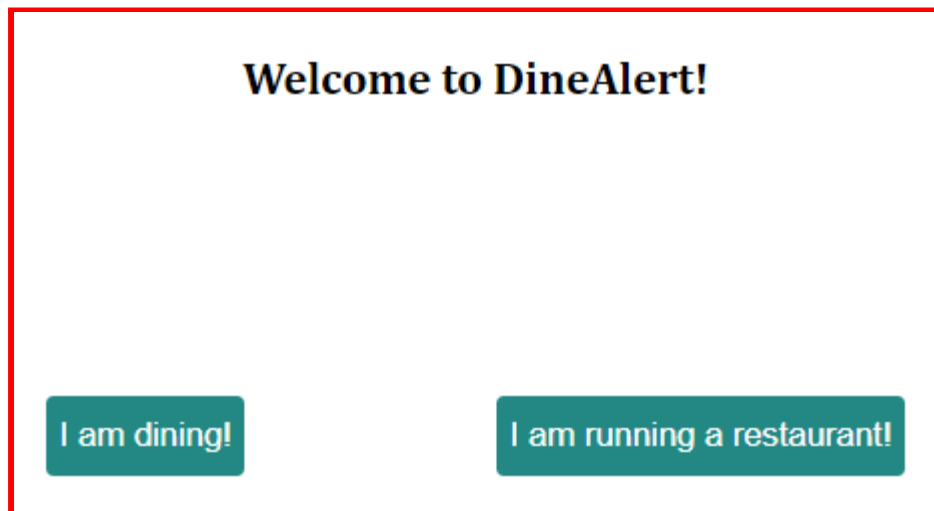Tauseef Kashtwari 301279712
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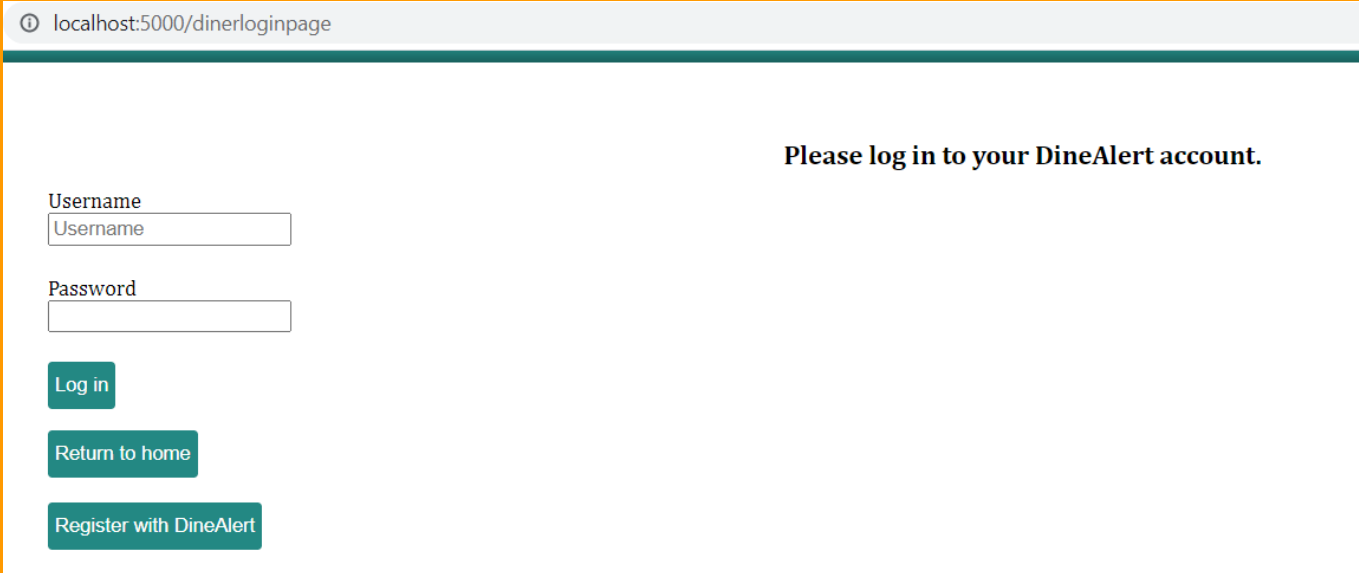Markus Robinson 301358252
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Some Screenshots of working app
- **Homepage**

- ==**Left Button (Customers) "I am dining!"**==
  - Redirects to login page, which is used by customers

When the customer clicks on ==**Register with DineAlert**==, he or she is redirected to another page, where they register their account, as shown below:

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Register yourself on DineAlert!

Username
peter

Name
peter

Email
peter@gmail.com

Password
•••••

Create account

Return to Homepage

Back to Diner Login

Once they register, they are redirected to the login page

Username
peter

Password
•••••

Log in

Return to home

Register with DineAlert

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LOGGED IN:
Once the diner logs in, he or she enters their name, restaurant's name and their email address in a form.

Please fill out the form below before sitting down!

Name
peter

Restaurant
blue

Email
peter@gmail.com

Submit
Return to home
Register with DineAlert

SUBMITTED:
Once the client submits the information, a thank you message is displayed.

Thank you! Enjoy your meal.

Return to home

Errors possible when registering a client account:
1. Duplicate username - Need to have a unique username
2. Duplicate email address - Unique email as well

Create account

Username already exists, please try another.

Return to Homepage

Back to Diner Login

Create account

Email already registered, please try another.

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- **Right Button (Restaurant owners)** "I am running a restaurant!"
  - **First login page is displayed**

Please log in to your DineAlert account.

Username

Username

Password

Log in

Return to home

Create account

- **Creating account for restaurant owners**

Register your restaurant on DineAlert!

Restaurant Name

blue

Username

bluerestaurant

Password

••••

Create account

- **Once logged in restaurant**

Logged in!

Diner Information

ID	Name	Email	Time	Date	
59	peter	peter@gmail.com	15:44:14	2021-07-08	DELETE

Log Out

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Deleting record

	Diner Information			
ID	**Name**	**Email**	**Time**	**Date**

Log Out

Errors possible when registering a restaurant:
- **Need to have a unique username**

Create account

Username already exists, please try another.

Return to Homepage

Back to Diner Login