

MEALSTOP

Professor: Tushar Sharma

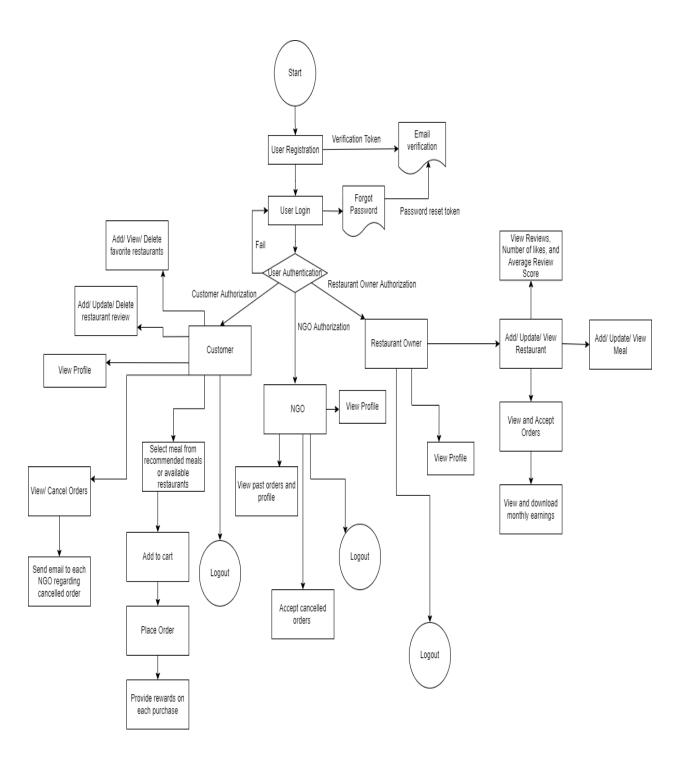
TA: Hamza Jasnak

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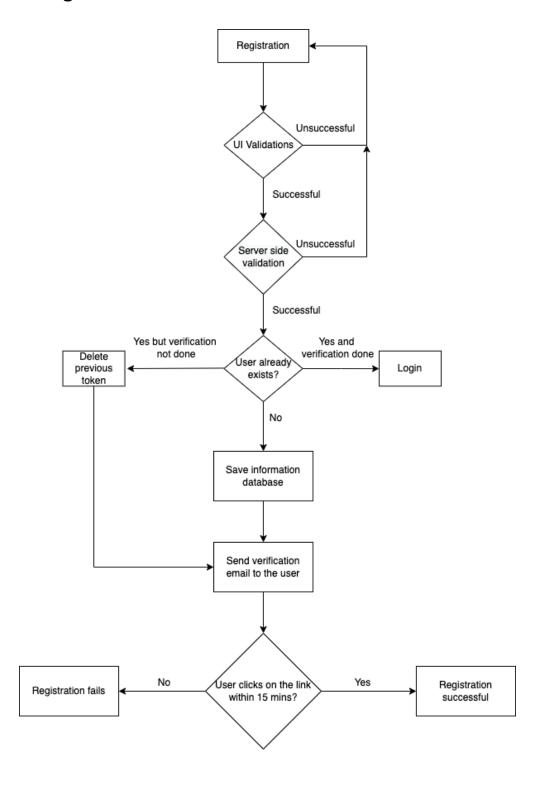
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User Scenarios

[APP URL: https://mealstop-application.herokuapp.com/]



1. User Registration



Registration based on user types

- A user can register as Restaurant owner, Customer or NGO owner.
- Restaurant owner, customer will have common registration basis on the role type.
- NGO owner will have its own registration.

Registration validations

- Validations work on both client and server side.
- Server-side validations work, even if client-side validations fail.

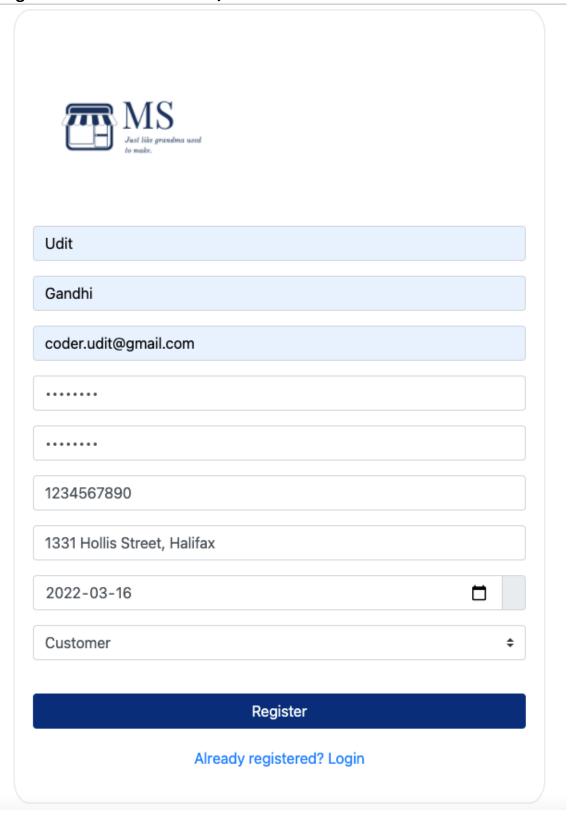
Registration verification email

- When a user is successfully registered inside the user table, an email with verify URL containing verification token email is sent.
- Verification token has a validity of 15 minutes. If a user is not verified within 15 minutes, he needs to register again.

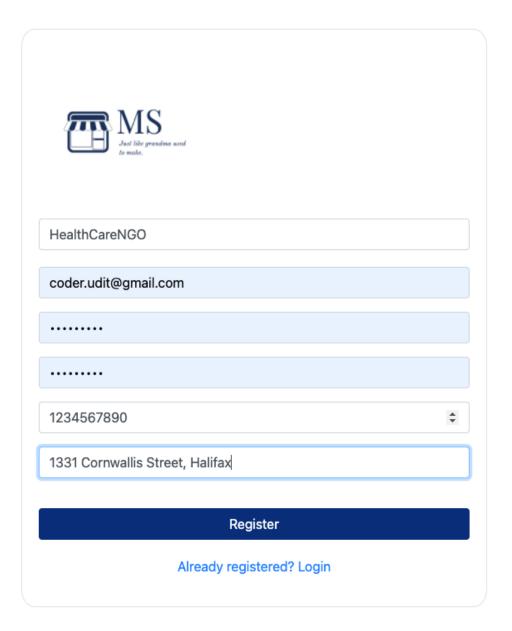
Registration process scenarios

- If a user is coming for the first time:
 - User information will be stored inside user table.
 - Verification token will be stored inside verification token table.
 - o An email will be sent to the user on the registered email with verification URL.
- If a user already exists inside the system with user not enabled i.e., user not verified.
 - o Previous verification token will be deleted.
 - New verification token will be created.
 - An email will be sent to the user on the registered email with verification URL.
- If a user already exists inside the system with user not enabled i.e., user verified.
 - Already exiting user will be returned.

Registration UI for Customer/Restaurant



Registration UI for NGO



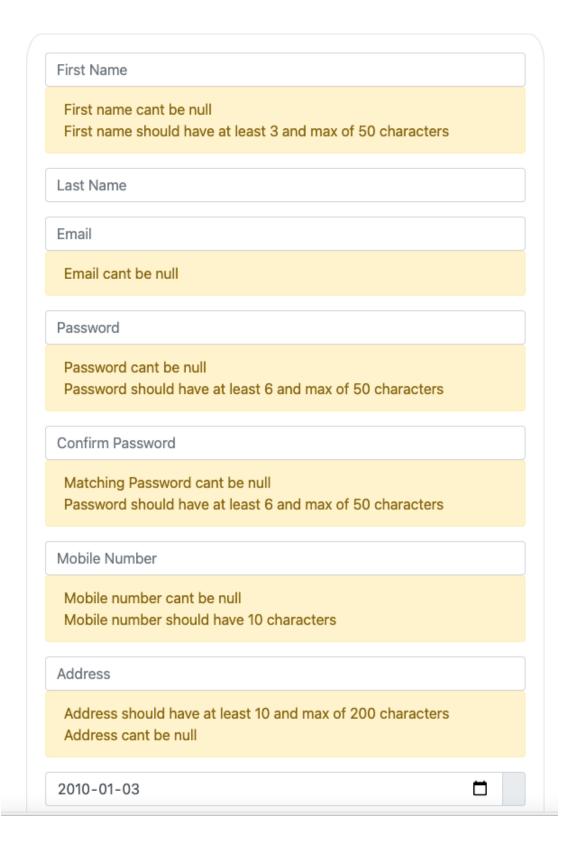
Verification email:

mealstopapp@gmail.com

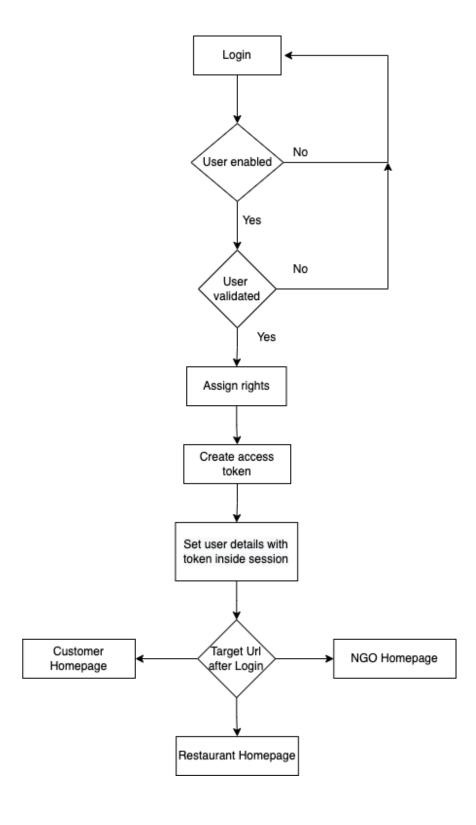
to me 🔻

Verify url: http://localhost:8080/api/v1/verifyRegistration?token=88e68460-ef46-4485-873e-e687b0820047

Registration UI with validations



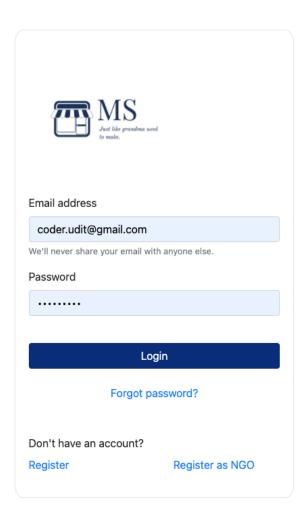
2. User Login



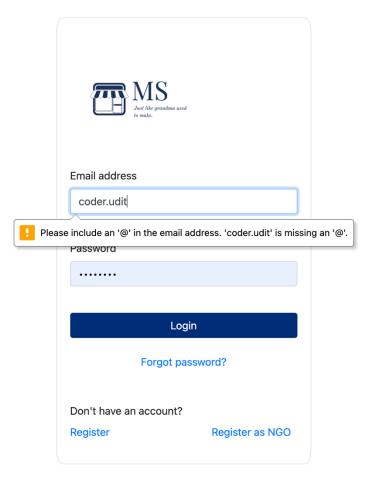
User Login Scenarios

- If a user has been registered and not verified.
 - User will be redirected to error page for login again.
- If a user has been registered and verified, but wrong information.
 - User will be redirected to error page for login again.
- If a user has been registered and verified, with correct information.
 - o Rights will be assigned to the user.
 - o Access token will be created containing information about user and its rights.
 - Access token will be set inside the HTTP session for further authorization of requests.

User Login UI



User Login invalid email format



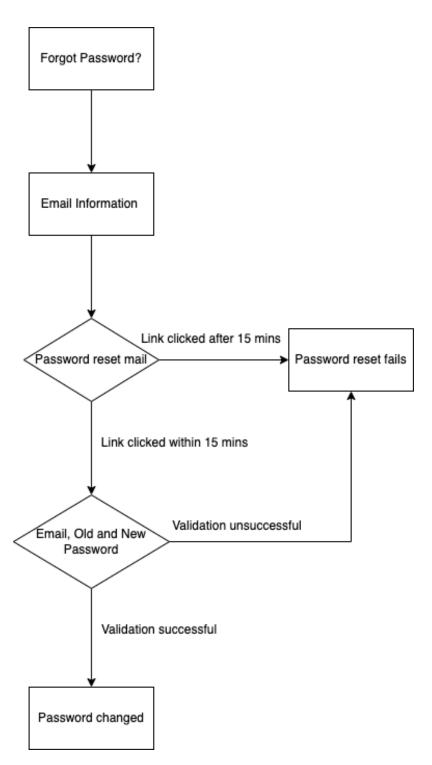
User Login UI error



Invalid user details

Trying login again!

3. Forgot Password



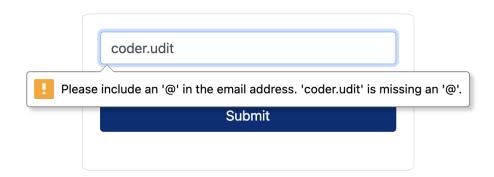
Forgot password scenarios

- User enters an email that does not exist in the system.
 - o Redirect the user to the login page.
- User enters an email that exist in the system.
 - o Sends a password reset mail to the user containing password token.
 - User needs to click on the link.
 - User enters the new password.

Forgot password UI



Forgot password UI with invalid email format



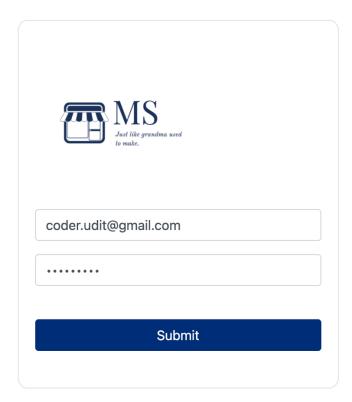
Password reset mail

mealstopapp@gmail.com

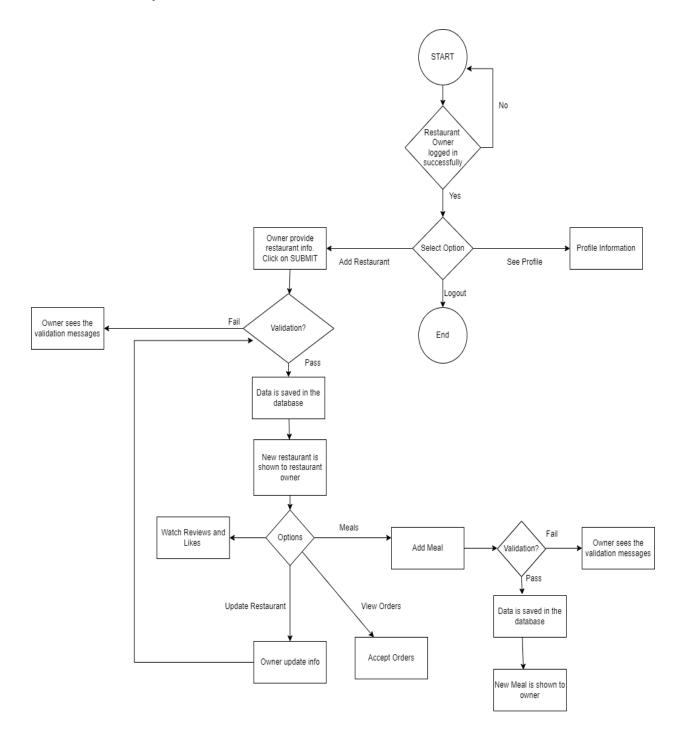
to me ▼

http://localhost:8080/api/v1/savePassword?token=76ad5523-b998-4da2-8a78-cb17cee097ae

Change password UI



4. Restaurant/Meal



Restaurant

- A restaurant owner can add multiple new restaurants
- A restaurant owner can update an existing restaurant
- A restaurant owner can add a new meal to a restaurant
- A restaurant owner can update an existing meal
- A restaurant owner can see the average review score provided to a restaurant by the customers
- A restaurant owner can see the reviews provided to a restaurant by the customers
- A restaurant owner can see the number of likes given to a restaurant
- A restaurant owner can see the profile page
- A restaurant owner can see orders per restaurant
- A restaurant owner can see and download monthly earnings

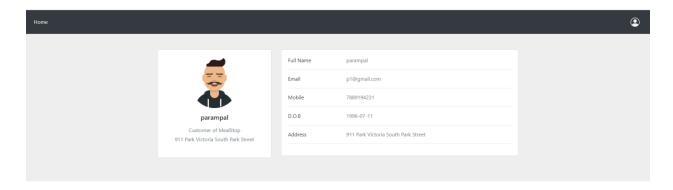
Add/ Update Restaurant and Meal validations

- Validations work on both the client and server-side
- Server-side validations work, even if client-side validations fail

Scenarios

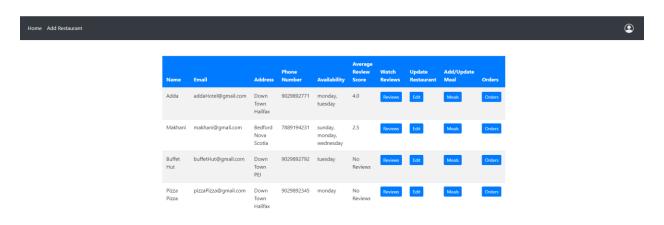
- If a restaurant user is coming for the first time:
 - User will be able to add a new restaurant after validations are passed
 - User will have no "No Reviews" as an average review score and no review messages
 - The number of likes will be zero
 - User can add meals under the new restaurant
 - After meal addition user may see orders under the Orders section
 - User can see the profile page
- If a restaurant user has one or more restaurants and reviews, likes are provided:
 - User will be able to add/ update restaurants
 - User will be able to add/ update meals
 - User will see the average review score and see the review messages per restaurant
 - User can see the number of likes per restaurant
 - User will be able to see the orders
 - User will be able to see and download monthly earnings
 - User can see the profile page

Restaurant Owner Profile Page



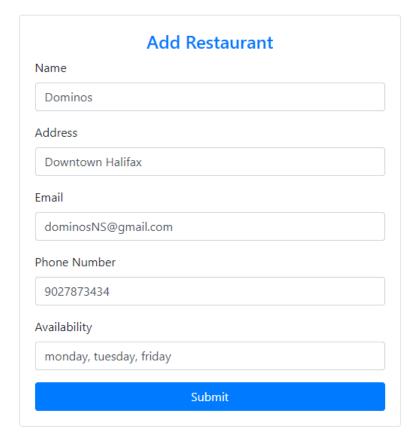
■ Meal Stop Application connects customers, restaurants and NGO together.

Restaurant Homepage



• Meal Stop Application connects customers, restaurants and NGO together.

Add New Restaurant



Add New Restaurant with Validations

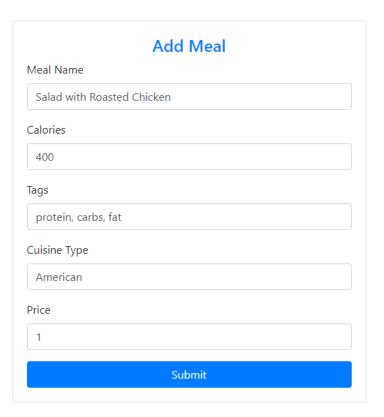
Name				
Restaurant name cannot be null				
Address				
Address should have at least 10 and max of 200 characters Address cannot be null				
Email				
Email cannot be null				
Phone Number				
9027873				
Phone number should have 10 characters				
Availability				
Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sun				
Restaurant availability cannot be null				
Submit				

Meals Homepage



Meal Stop Application connects customers, restaurants and NGO together.

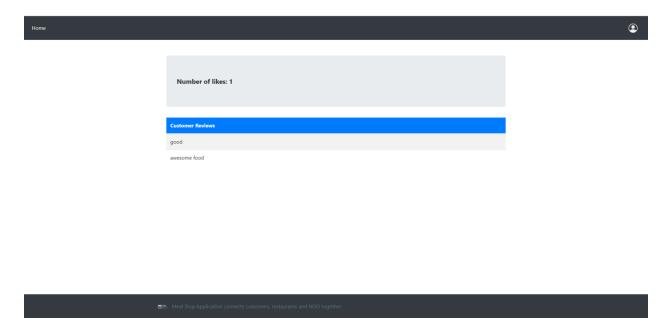
Add New Meal



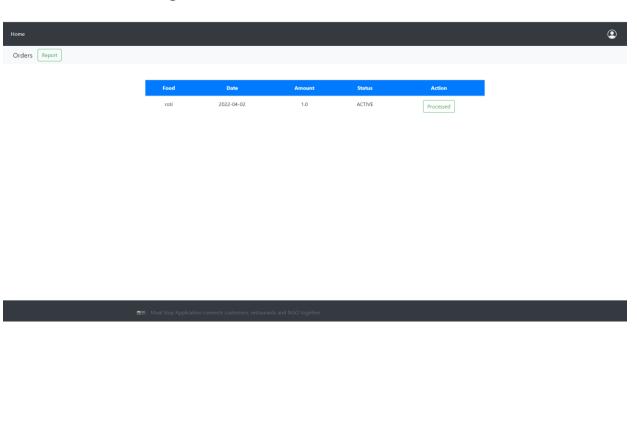
Add New Meal with Validations

Add Meal					
Meal Name					
Meal name cannot be null					
Calories					
Meal calories cannot be null					
Tags					
Meal tags cannot be null					
Cuisine Type					
Meal cuisine type cannot be null					
Price					
0					
Meal price cannot be less than 1					
Submit					

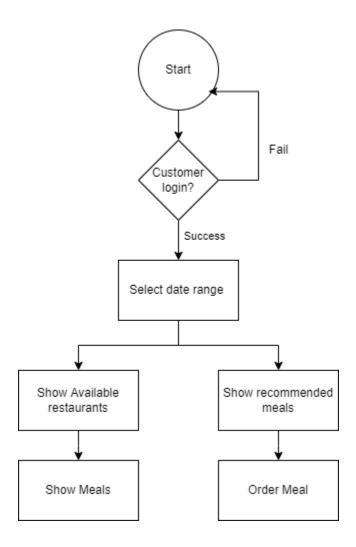
Review and Likes Page



Restaurant Orders Page



5. Recommendation System



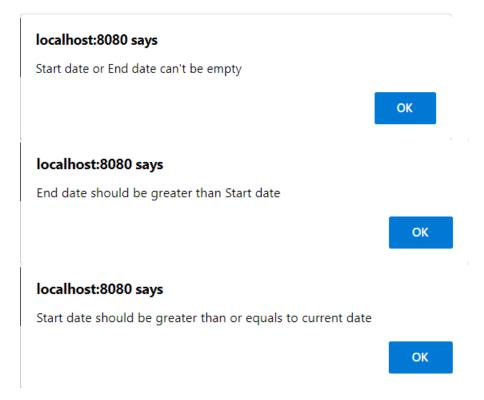
Available Restaurants

• Restaurants are displayed to the customer as per the availability declared by the restaurant owner

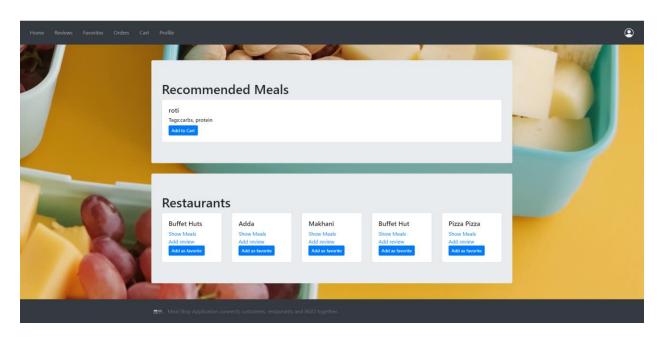
Recommended Meals

• Meals are recommended to the customer based on available restaurants and orders placed. Recommendation is performed based on the most liked meal tag

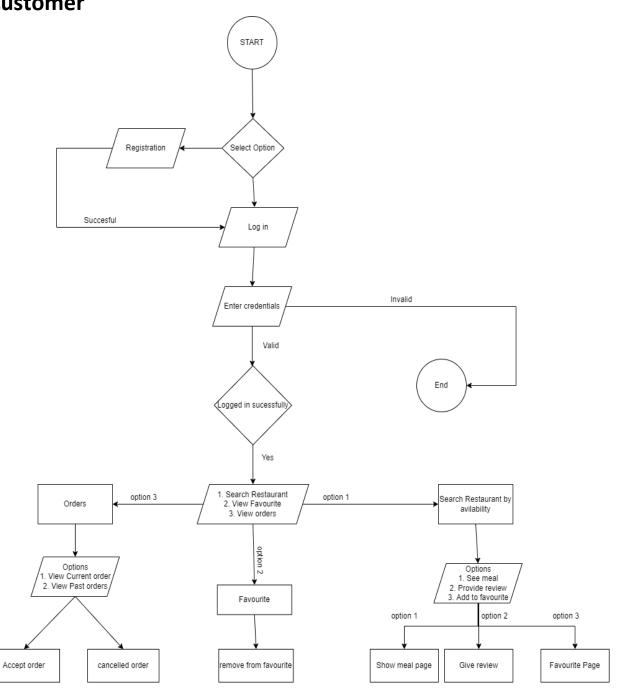
Date Selection Validations



Recommandation Page:



6. Customer



Customer

- A customer can search for restaurants.
- A customer can view favourites.
- A customer can view orders.
- A customer can add meals to the cart.
- A customer can remove meals from the cart.
- A customer can give reviews for restaurants.
- A customer can edit reviews for restaurants.
- A customer can delete reviews for restaurants.
- A customer can add restaurants to the favourite.
- A customer can remove restaurants from the favourites.
- A customer views his profile.
- A customer signs out from his session.

Search Restaurants by availability

User Scenario 1

- When a registered user logins he is redirected to the homepage.
- With the valid start date and end date he can search restaurants.
- With the provided recommendation meals, he would be able to add to cart.

User Scenario 2

- With the provided restaurants he can view the meals offered by that restaurant.
- Add review to the restaurant.
- Can also add the restaurant to their favourites.

Add/Update Reviews for Restaurants and Validation

- Validations work on both the client and server-side
- Server-side validations work, even if client-side validations fail
- The User can see the list of reviews he had given for each restaurant.
- User will be able to navigate to the restaurant menu page.

Add/Remove Favourite Restaurants

- Shows the user the list of his favourite restaurants.
- Allows the user to give reviews for the restaurant
- User can remove the restaurant from his favourite anytime.

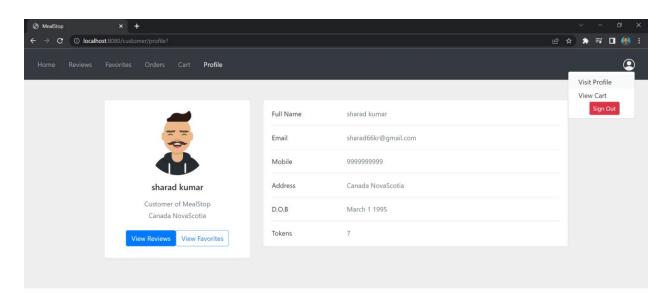
Cart

- Lists the items the User adds to the cart
- User will be able to place order only when he has available Tokens.
- Allows the User to continue shopping.

Profile

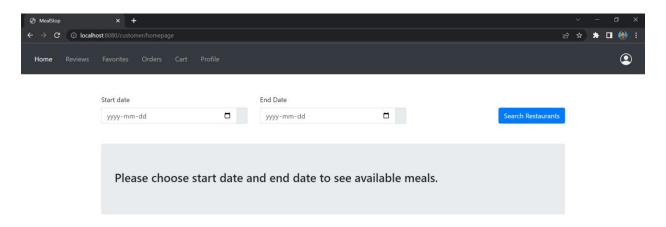
- Visit User Profile
- Route to users' cart
- Sign out of the session

Customer Profile



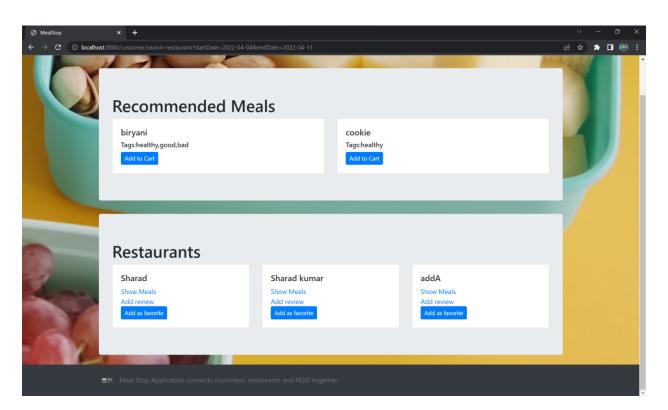
■ Meal Stop Application connects customers, restaurants and NGO together

Homepage

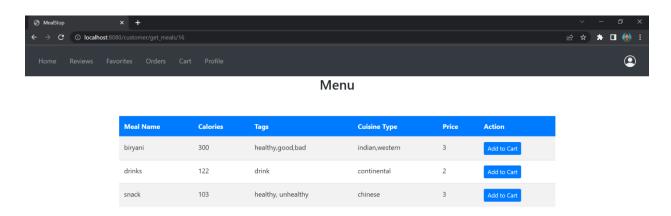


圖樂. Meal Stop Application connects customers, restaurants and NGO together.

Search Restaurants



Restaurant Meals Menu



■ Meal Stop Application connects customers, restaurants and NGO together.

Review

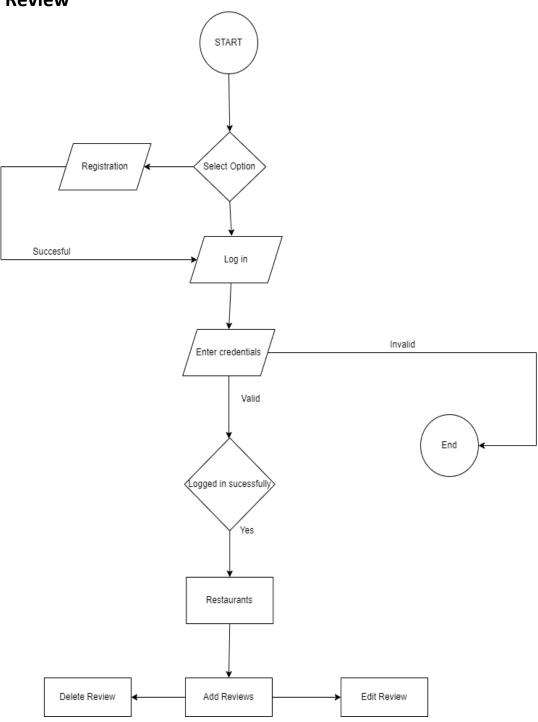


Reviews given by user: sharad66kr@gmail.com

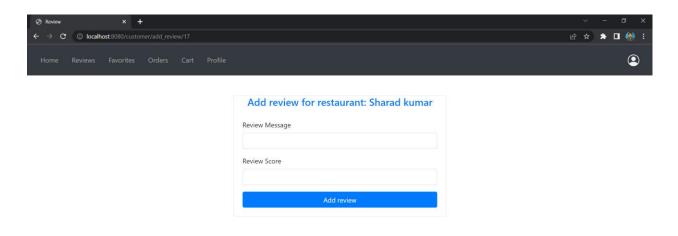
Review Message	Review Score	Date	Restaurant Name	Edit	Delete
asdc	4 🖈	2022-04-02 22:08:48.0	Sharad kumar	Edit	Delete
Great food	5 🛊	2022-04-01 19:03:41.0	Sharad	Edit	Delete
asdc2	5 🛊	2022-04-02 22:09:18.0	Sharad	Edit	Delete
Good Food	1★	2022-04-04 21:37:14.0	Sharad	Edit	Delete

■ Meal Stop Application connects customers, restaurants and NGO together.

7. Review

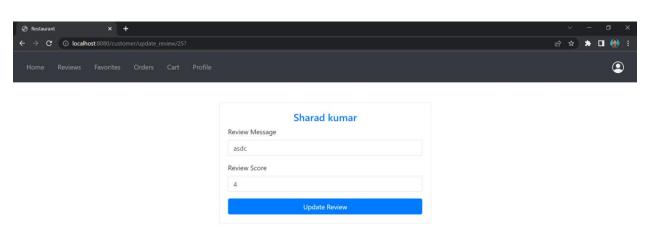


Add Review



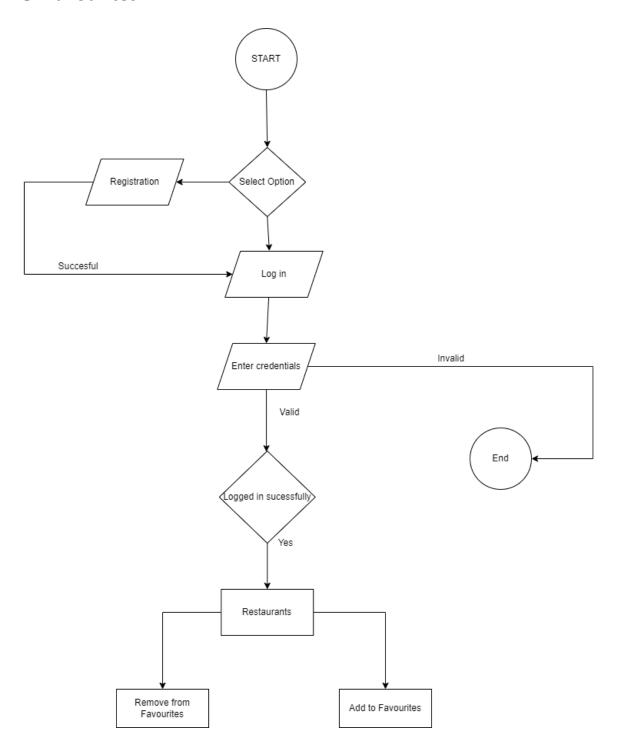
Meal Stop Application connects customers, restaurants and NGO together.

Update Review

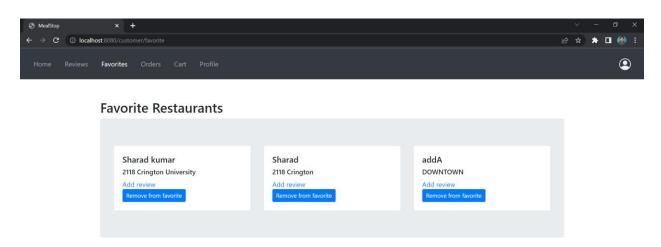


西些. Meal Stop Application connects customers, restaurants and NGO together.

8. Favourites

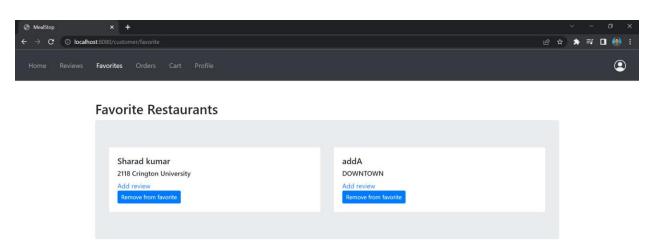


Favourite Restaurants (Add)



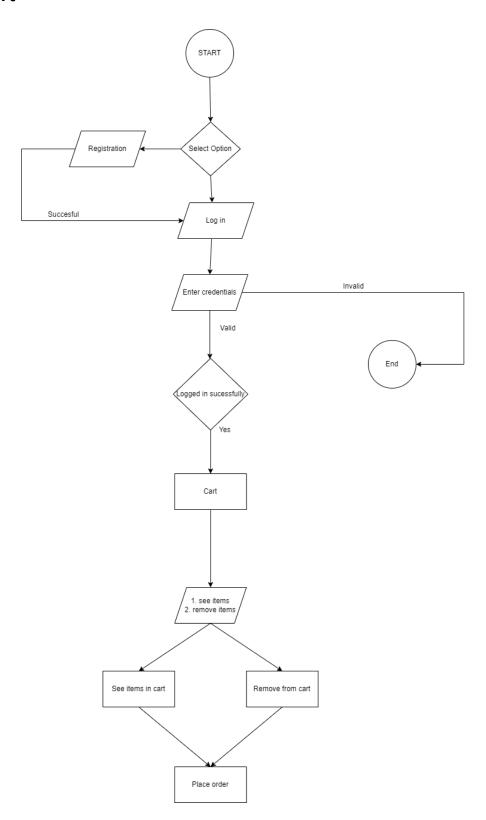
Meal Stop Application connects customers, restaurants and NGO together.

Favourite Restaurants (Removed one)

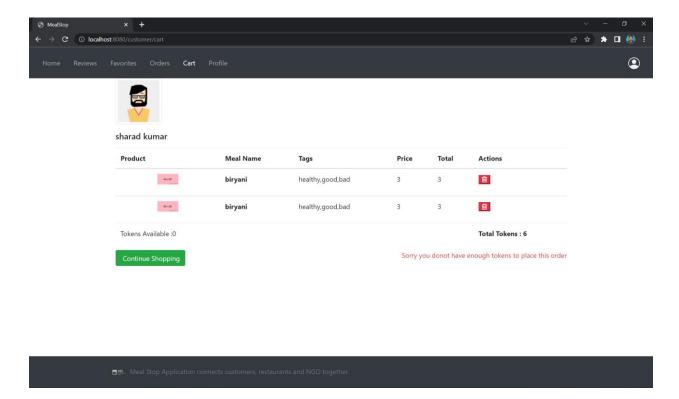


■野. Meal Stop Application connects customers, restaurants and NGO together.

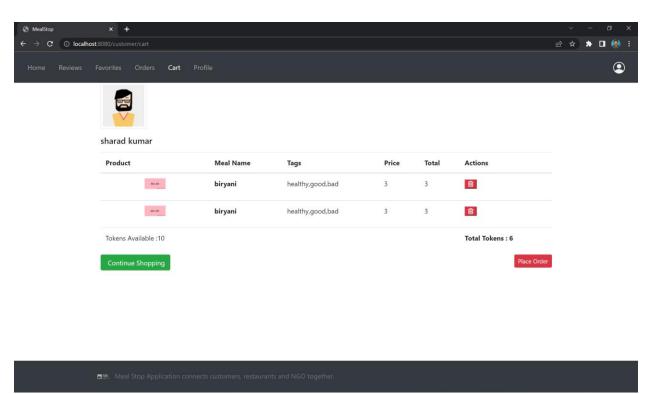
9. Cart



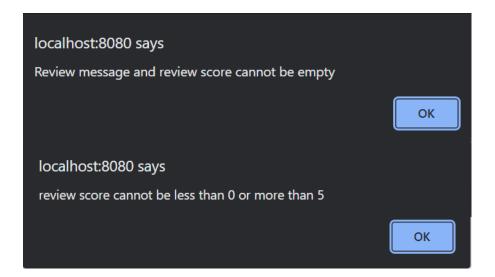
Cart Scenario1 (Token Available: 0)



Cart Scenario 2 (Token Available > 0)



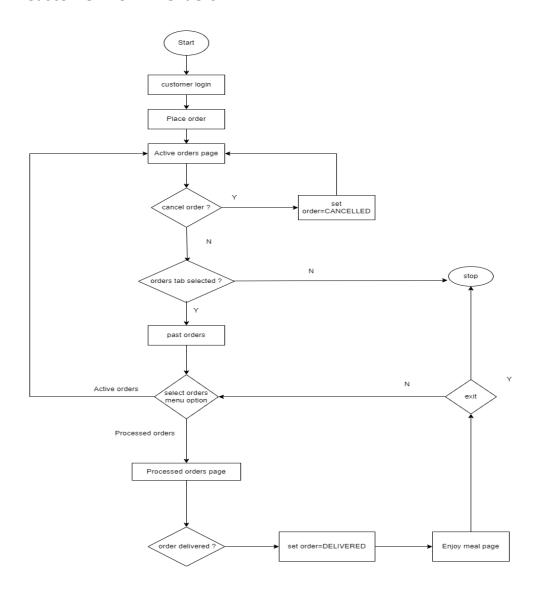
Add/Edit Review Validation



10. Orders

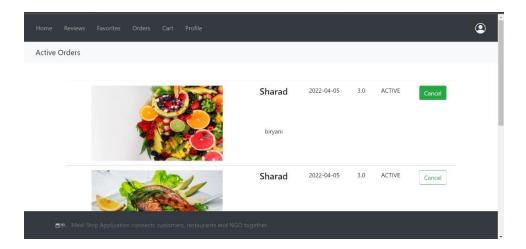
This module handles orders which have been placed by the users. It facilitates the Customer module, Restaurant module and NGO module with the information related to orders. Customers have the option to view past orders, cancel current active orders or declare a processed order as delivered. Restaurants on the other hand have the option to see all orders placed, get their yearly report on sales, and export them if needed. NGO can see all the cancelled orders ordered by the customers.

Customer Flow in Orders



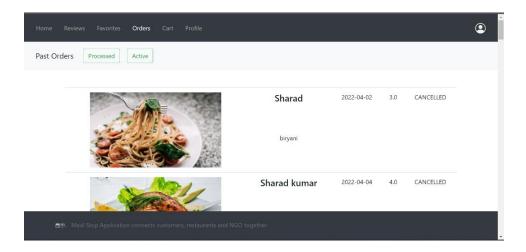
Active Order

- This page is displayed immediately when an order is placed.
- User has the option to cancel current active order
- Users can also cancel past orders which have not been accepted by the restaurant



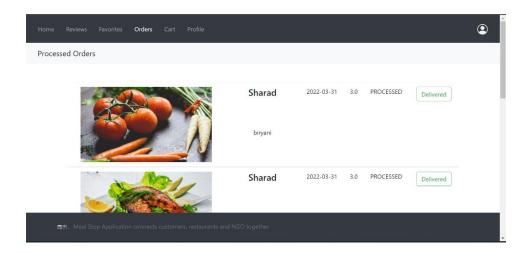
Orders Menu

- This is the landing page for orders module
- By default, the module displays all the past orders which includes delivered and cancelled orders
- User can further navigate to processed or active orders page using sub menu

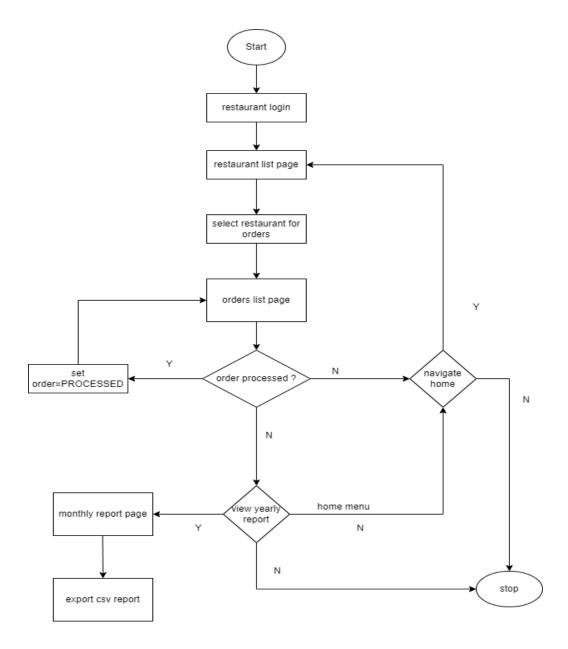


Processed Orders

- This page displays all the orders which has been processed by the restaurant
- Customer has option set the state of order as delivered if they have received the order

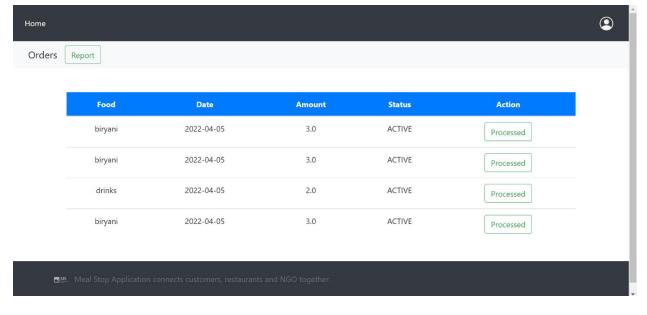


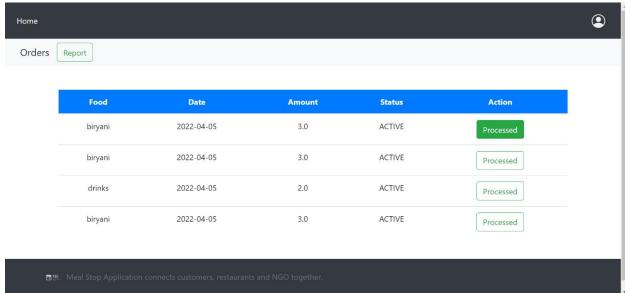
Restaurant Flow in Orders



Restaurant orders

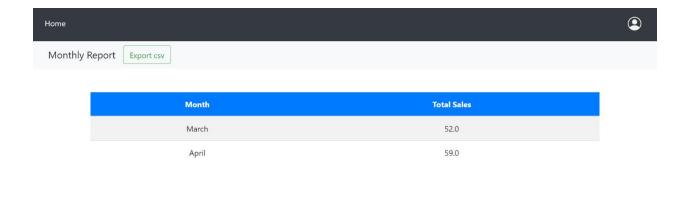
- This page in restaurant module lists all orders which have been placed by the customers
- Restaurant owners have option to mark the order as processed if the food is ready
- Processed orders will be available in the processed order section of customers
- This page also has option to see yearly report of the earnings of the restaurant





Restaurant report

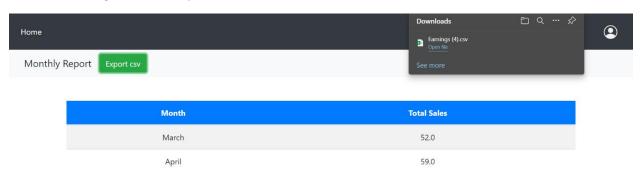
- This page lists all the earnings of the restaurant in current year
- The page shows monthly earnings corresponding to each month
- This report can pe exported in CSV format as well.



Meal Stop Application connects customers, restaurants and NGO together.

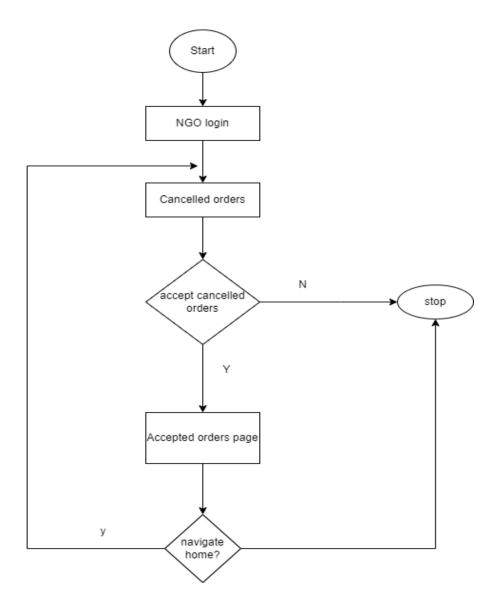
Report export

- Reports generated can be exported in csv file
- Clicking on the "Export csv" will download a csv file from the browser



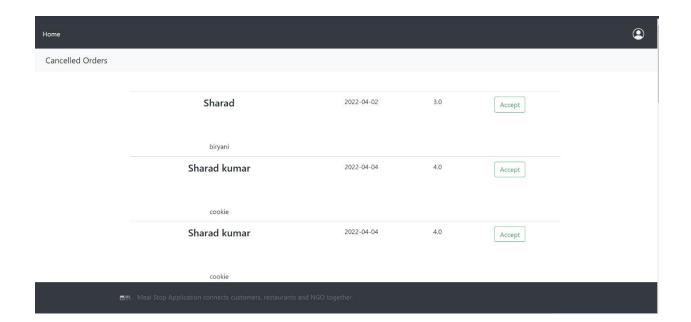
Meal Stop Application connects customers, restaurants and NGO together.

NGO Flow for Orders



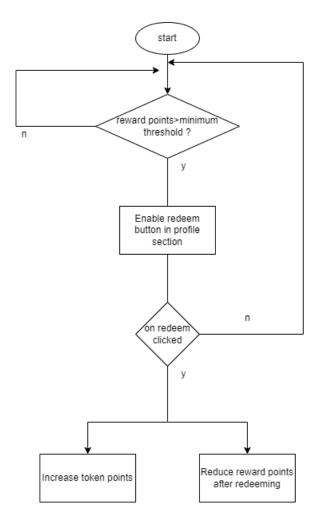
Cancelled Orders

- Cancelled orders from customers section will be available in NGO section
- NGO can accept any cancelled orders
- Further details about NGO are available in NGO module



11. Rewards

This module handles reward points for the customers which can be redeemed in the form of tokens after reaching a predefined threshold. The rewards can be redeemed from the profile section of the customer page. Rewards can be earned by placing orders. Each order gives a fixed amount of reward points



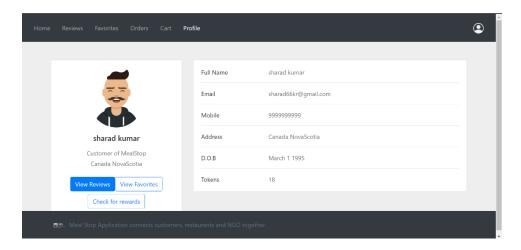
Obtaining Rewards

- Customer orders a food item
- 10 points is by default added to the customer account
- Threshold limit to redeem reward point is set to 50 points

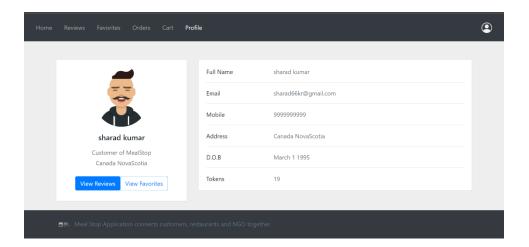
Redeeming Rewards

- Get total points accumulated by a customer
- Verify if accumulated point is greater than minimum threshold to redeem points
- If points are greater than threshold, provide 1 token each for reward points which are equivalent to threshold limit
- Update customer token
- Update deducted final reward points

Profile screen before redeeming points



Profile screen after redeeming points



12. NGO

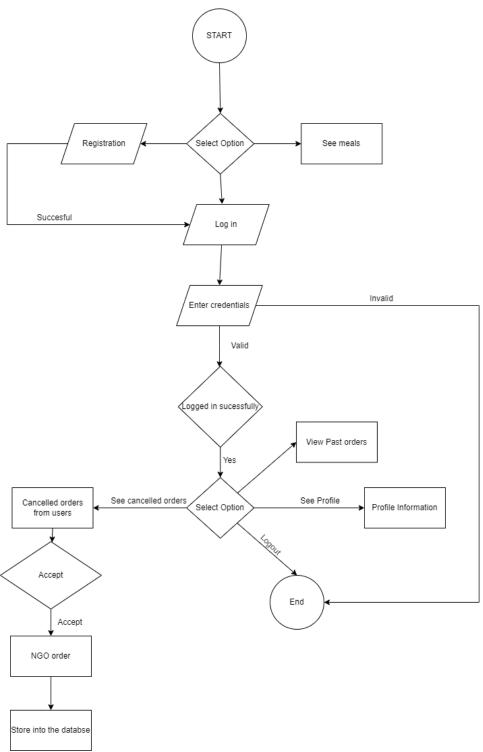
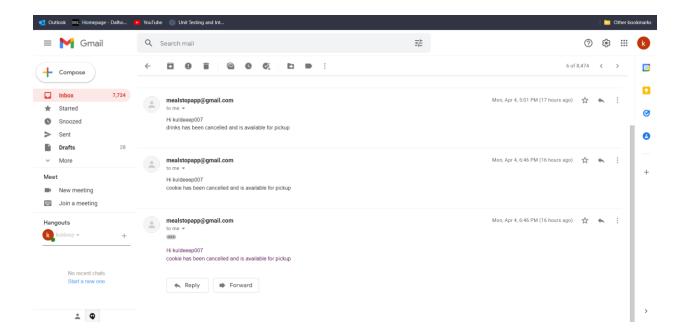
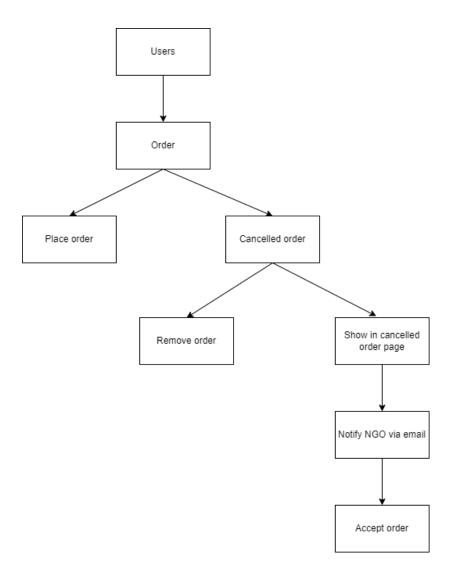


Figure 1 flow chart of NGO service

NGO email notification

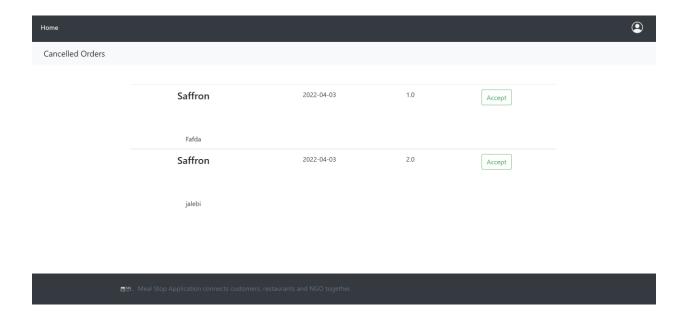
• Whenever a customer cancels a meal NGO users will be notified via email whenever which will help NGOs to keep updated.





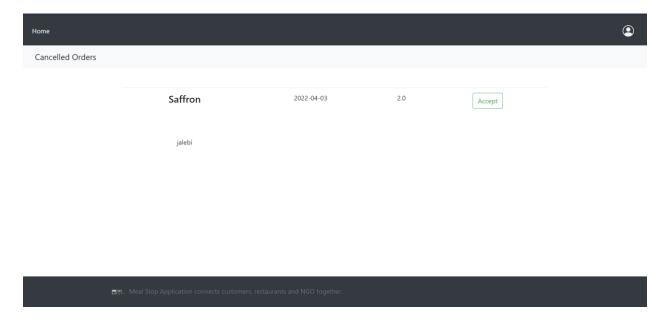
NGO view cancelled orders

- NGO can view all the cancelled orders which are cancelled by customers after the placing order.
- NGO will provide an option to accept the cancelled orders.
- NGO will show all the accepted orders along with their status.



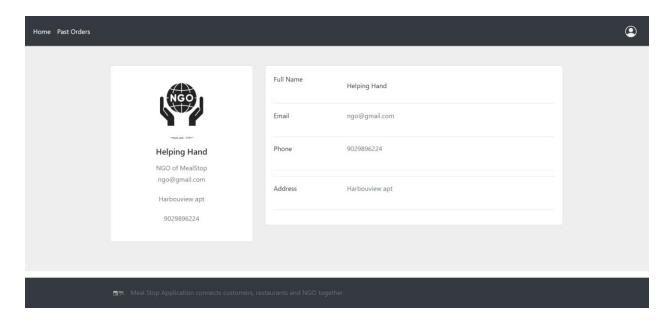
NGO accept orders

- Once an NGO accepts the cancelled order it should be removed from the display page.
- After accepting the cancelled order, it must be populated to the accepted page.
- Accepted orders should have all the necessary details such as token count, name, date, etc.



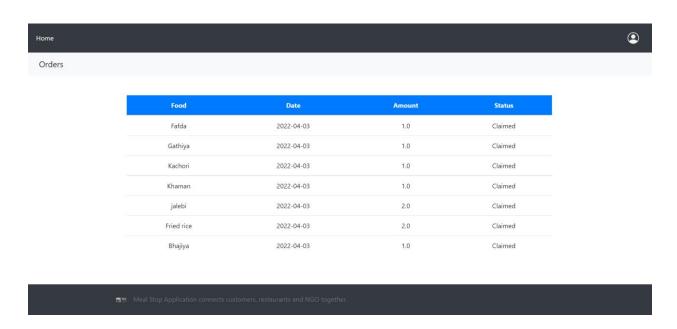
Profile page

 NGO will have an option to checkout to the profile page where all the provided details while registration will be reflected.



NGO past order history

 NGO past order will show all the accepted orders which are accepted by the NGO owner along with their date.



REFERENCES

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