

**Indian Institute of Information Technology,
Guwahati**

B.Tech Computer Science

Software Engineering Project

FoodHub - Online Food Ordering System

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Link to the project :- <https://github.com/swarajparth/FoodHub>

Testing

The type of testing used in this project is **Black box Testing**.

It is a software testing method in which the functionalities of software applications are tested without having knowledge of internal code structure, implementation details and internal paths. Black Box Testing mainly focuses on input and output of software applications and it is entirely based on software requirements and specifications.



Functional Requirements:-

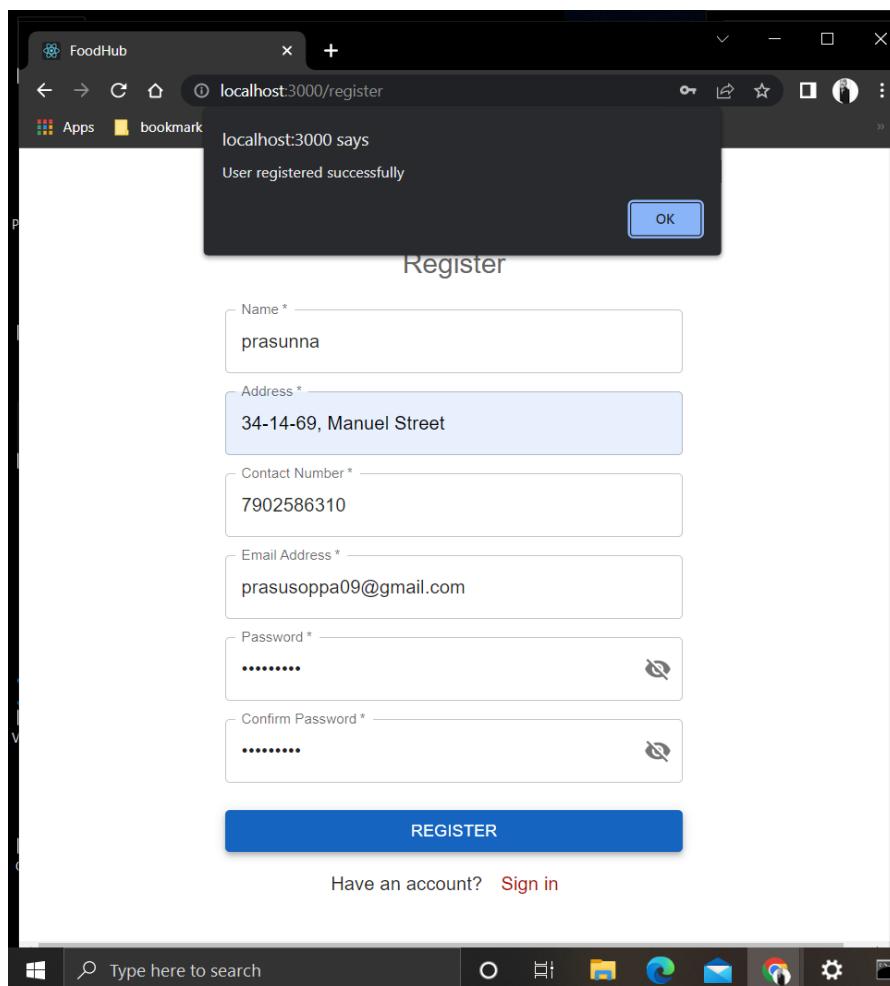
1. Users must have a valid Username, address, email and password to register thus creating their individual profiles:

Case 1: Correct Input

Input: Correct values are given

Expected Output: User registered successfully.

Output:



Before registering:

The screenshot shows the MongoDB Cloud interface for the 'FoodHub' database. The 'users' collection is selected. A search query is applied with the filter '{ field: 'value' }'. The results show two documents:

```
_id: ObjectId("6247fd35d2498fdc09af84b8")
name: "Swaraj"
address: "Bongora"
mobile: 9812345678
email: "swaraj.s@foodhub.com"
password: "$2a$12$E5eLan74/puutQcOk49.h/u/zTPk4bb12pdg9tBhdgr3xC5e2EVYX1"
confirm_password: "$2a$12$Jj14gGud4Ufij4J.h6Qz40212ef3D7wvRv1FgcyJHnO9Y72yam4zG"
__v: 0

_id: ObjectId("624eb68864f7ad5008f0be96")
name: "Swaraj Parth"
```

System Status: All Good

After registering:

The screenshot shows the MongoDB Cloud interface for the 'FoodHub' database. The 'users' collection is selected. A search query is applied with the filter '{ field: 'value' }'. The results show one document:

```
_id: ObjectId("624f55db98d5f85488a6e3b")
name: "prasunna"
address: "34-14-69, Manvel Street"
mobile: 7902586310
email: "prasunnsoppa@gmail.com"
password: "$2a$12$J/ckhoxSsfuGhShoLhgB0a4xALHdtzklFwzR.KLVCQp0q13e/J1Xm"
confirm_password: "$2a$12$xDW88Ay1bTEXkjUm.36P.FFjHc/lTfUjhkdzfxgGSh1unFK?Mnt2"
__v: 0
```

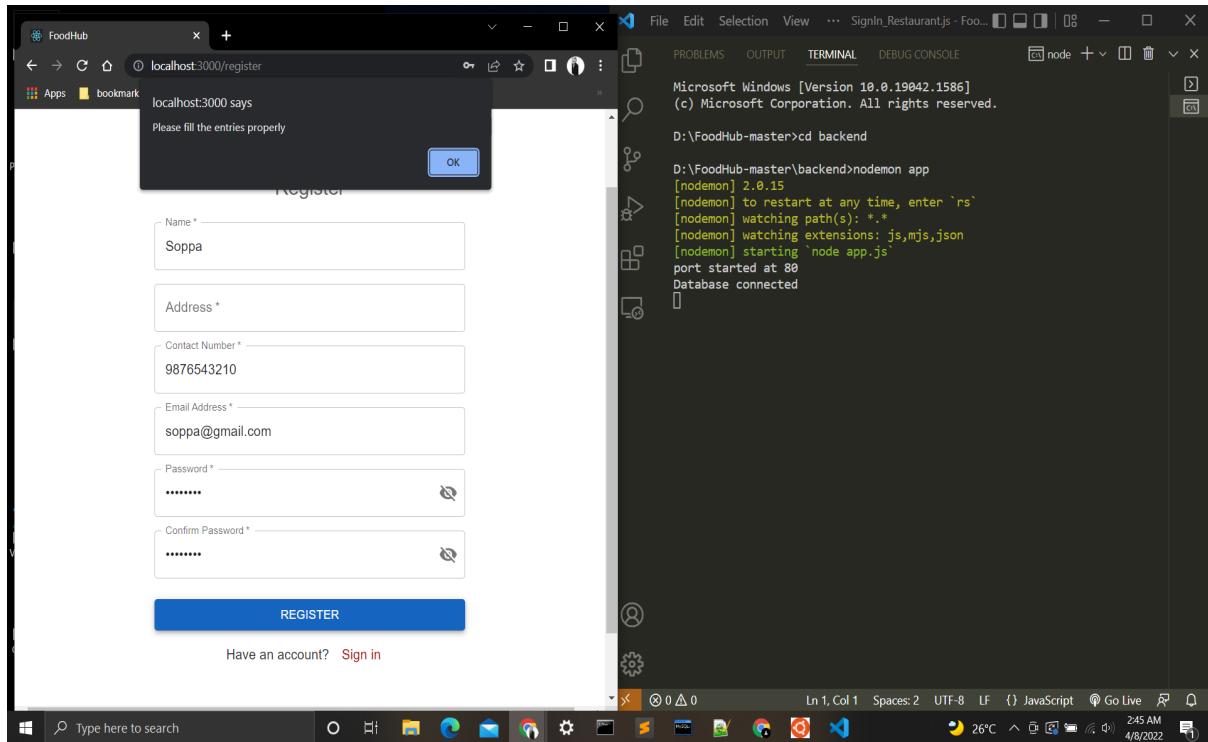
System Status: All Good

Case 2: Incorrect Input

Input: One of the i/p values is missing.

Expected Output: Fill the entries properly.

Output:

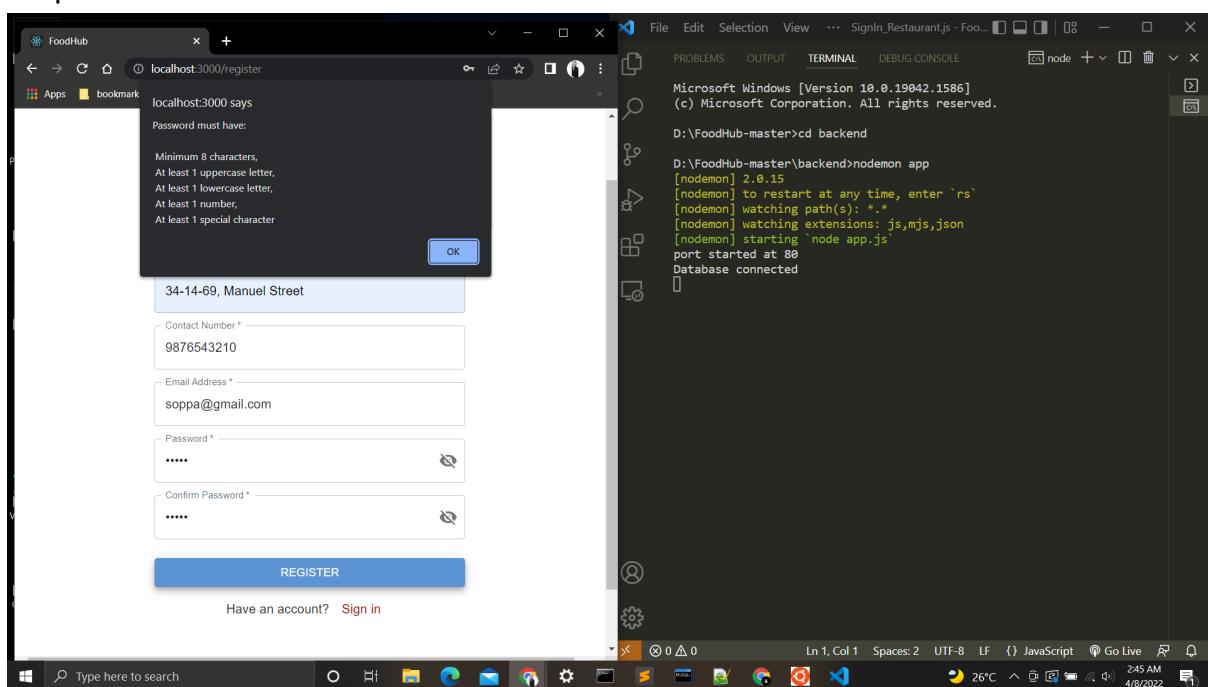


Case 3: Incorrect password

Input: Shorter password

Expected Output: Password must have min. of 8 characters.

Output:

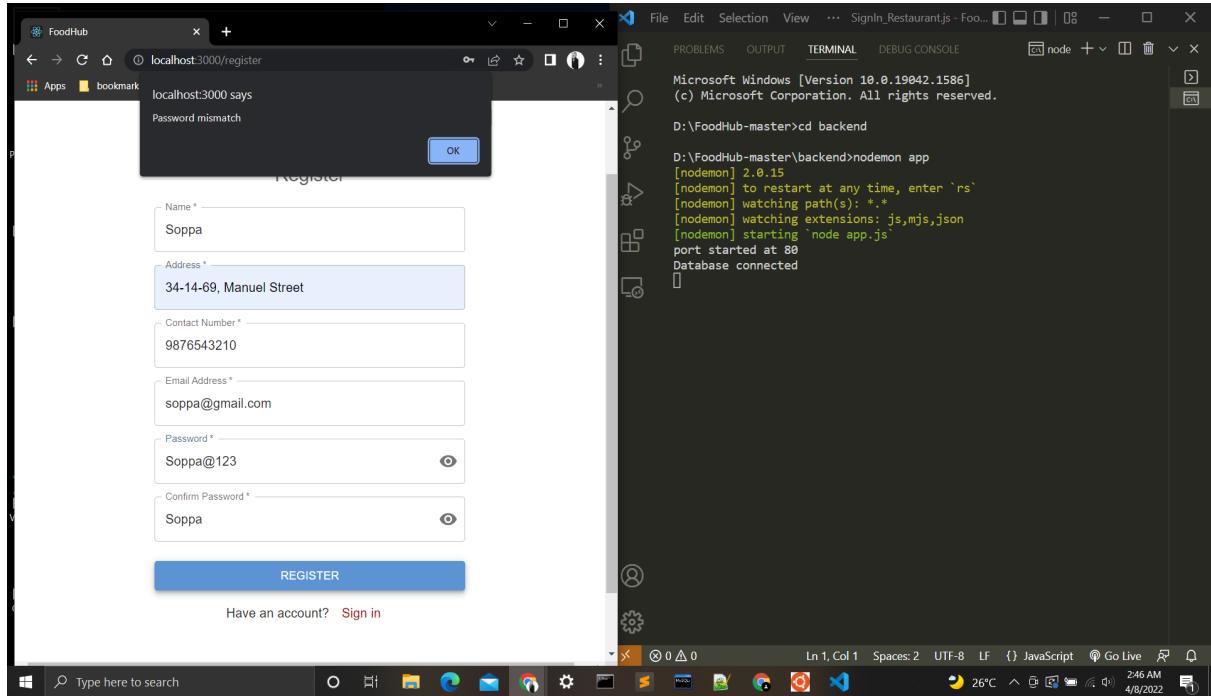


Case 4: Password mismatch

Input: Different password is given in “confirm password” input.

Expected Output: Password mismatch

Output:

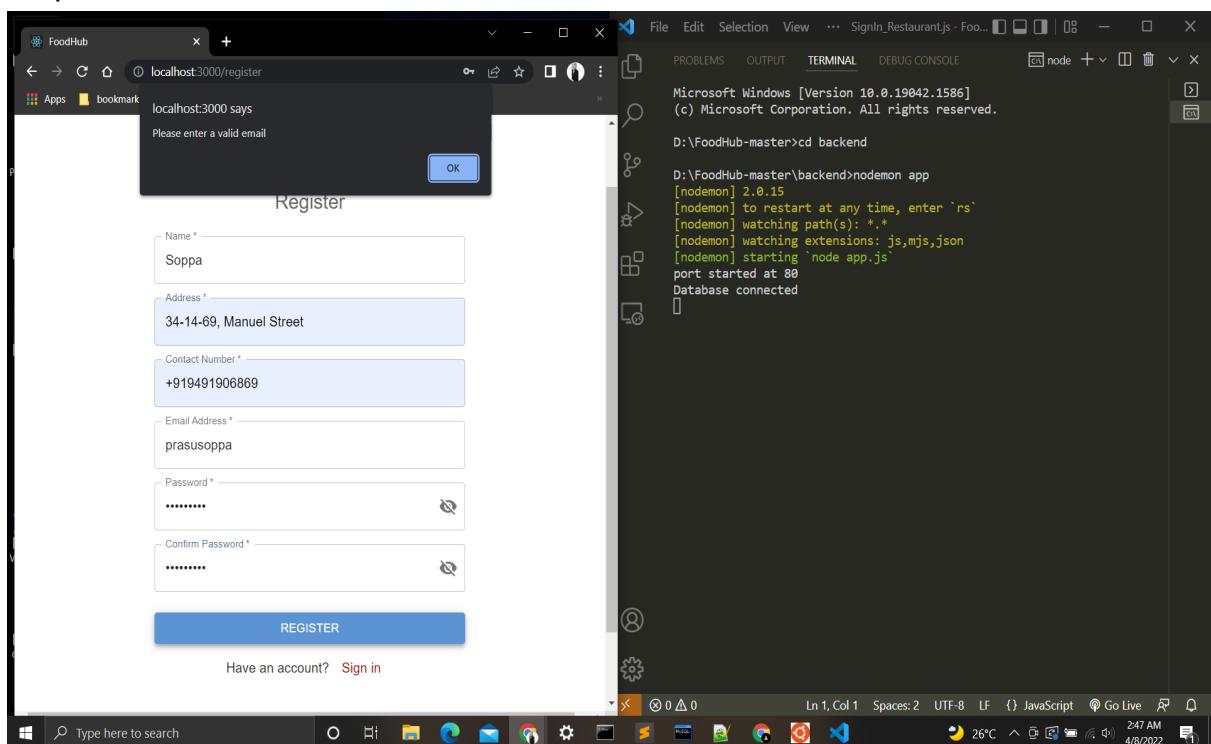


Case 5: Invalid email address

Input: Invalid email is given.

Expected Output: Enter a valid email address.

Output:



2. Restaurants must have a valid Name, address, email and password to register thus creating their individual profiles:

Case 1: Correct Input

Input: Correct values are given

Expected Output: Restaurant registered successfully.

Output:

The screenshot shows a browser window titled "FoodHub" with the URL "localhost:3000/register-restaurant". A modal dialog box is open, displaying the message "Restaurant registered successfully" with an "OK" button. Below the modal, there is a form titled "Add Restaurant" with fields for Name, Address, Contact Number, Email Address, Password, and Confirm Password. All fields are filled with sample data. At the bottom of the form is a blue "ADD RESTAURANT" button. Below the form, a link says "Have an account? Sign in". To the right of the browser window is a terminal window showing the command "D:\FoodHub-master\backend>nodemon app" being run, with output indicating the application is listening on port 80 and the database is connected.

Before registering:

The screenshot shows the MongoDB Cloud interface with the database "FoodHub" selected. Under the "foodhub" namespace, the "restaurants" collection is shown. The collection has a storage size of 36KB and contains 2 documents. A single document is displayed in the "QUERY RESULTS" section, showing the following data:

```
_id: ObjectId("6247f5bf2d498fd09ef84a3")
name: "Nescafe"
address: "Bongora, IIITG"
mobile: 9898781230
email: "nescafe@gmail.com"
password: "$2a$12$QGqkXPINy1Pr9Yw.1l9Hu0vWawKla.VpYC8a1TxH546obQzIMI"
confirm_password: "$2a$12$QGqkXPINy1Pr9Yw.1l9Hu0vWawKla.VpYC8a1TxH546obQzIMI"
__v: 0
```

After registering:

The screenshot shows the MongoDB Cloud interface. The left sidebar lists databases: FoodHub, Atlas, Realm, and Charts. Under FoodHub, the 'foodhub' collection is selected, showing documents for 'menus', 'orders', 'users', and 'restaurants'. The 'restaurants' document is expanded, showing fields like '_id', 'name', 'address', 'mobile', 'email', 'password', 'confirm_password', and '_v'. The document for 'IITTG Canteen' has its details visible. The bottom status bar indicates 'System Status: All Good' and the footer shows copyright information for MongoDB, Inc.

Case 2: Incorrect Input

Input: One of the i/p values is missing.

Expected Output: Fill the entries properly.

Output:

The screenshot shows a browser window with a registration form and a terminal window. The browser displays a modal message 'Please fill the entries properly'. Below it, the registration form has fields for Name, Address, Contact Number, Email Address, Password, and Confirm Password. The 'Name' field contains 'canteen'. The terminal window shows the command 'D:\FoodHub-master>cd backend' followed by 'D:\FoodHub-master>nodemon app', indicating the application is running. The system tray at the bottom shows the date and time as 4/8/2022 3:39 AM.

Case 3: Incorrect password

Input: Shorter password

Expected Output: Password must have min. of 8 characters.

Output:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/register'. The form includes fields for Name, Address, Contact Number, Email Address, Password, and Confirm Password. A modal dialog box from the server displays the message: 'Password must have: Minimum 8 characters, At least 1 uppercase letter, At least 1 lowercase letter, At least 1 number, At least 1 special character'. To the right, a terminal window shows the command 'node backend' being run, and the output indicates the app is listening on port 80 and the database is connected.

Case 4: Password mismatch

Input: Different password is given in "confirm password" input.

Expected Output: Password mismatch

Output:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/register'. The form includes fields for Name, Address, Contact Number, Email Address, Password, and Confirm Password. A modal dialog box from the server displays the message: 'Password mismatch'. To the right, a terminal window shows the command 'node backend' being run, and the output indicates the app is listening on port 80 and the database is connected.

Case 5: Invalid email address

Input: Invalid email is given.

Expected Output: Enter a valid email address.

Output:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/register'. The registration form fields are filled as follows: Name (canteen), Address (Park Street, Bongora), Contact Number (9865327410), Email Address (canteen@), Password (*****), and Confirm Password (*****). A modal dialog box is displayed with the message 'Please enter a valid email'. Below the form, there is a 'REGISTER' button and a 'Sign in' link. To the right of the browser, an integrated terminal window is open, showing the command 'D:\FoodHub-master>cd backend' followed by the output of 'nodemon app', which includes logs about watching files and starting a port at 80. The taskbar at the bottom shows various application icons.

3. Users should enter correct credentials to login to their account:

Case 1: Correct input

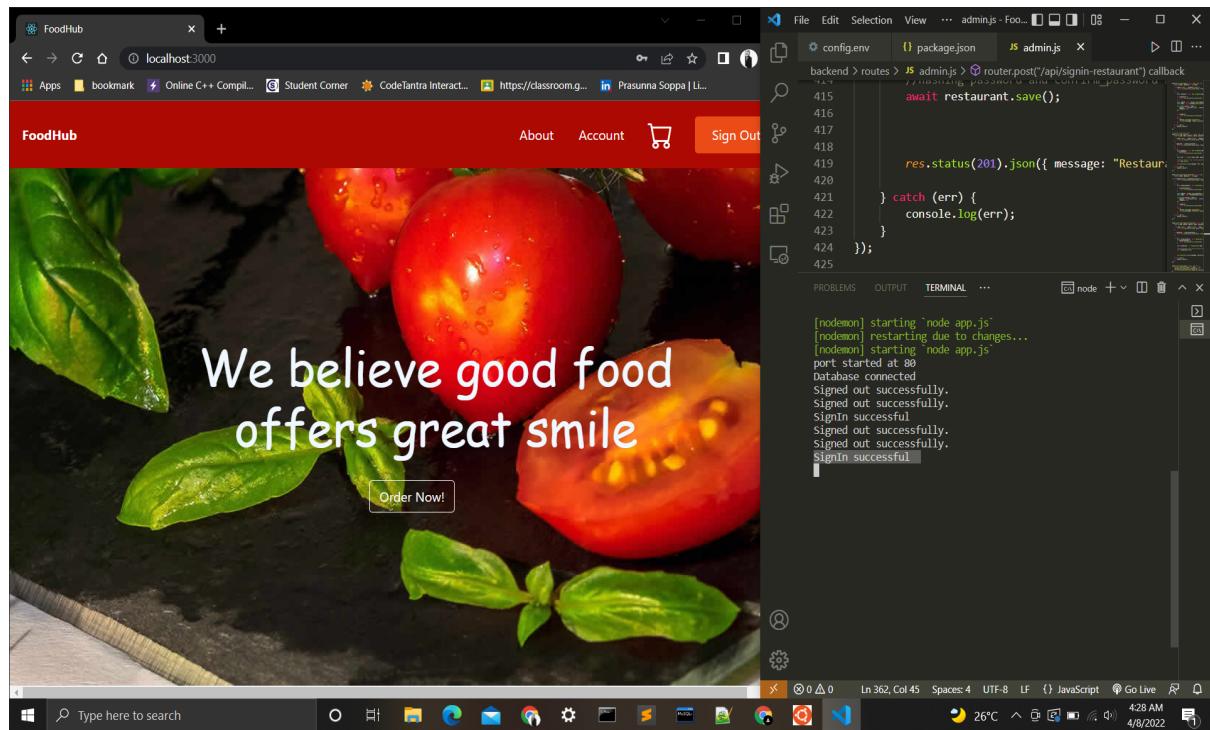
Input: Correct values are given

Expected Output: Successful Login.

Output:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/signin'. The sign-in form fields are filled with a valid email address (prasunnasoppa@gmail.com) and a password (*****). Below the form, there is a 'SIGN IN' button, a 'Forgot password?' link, and a 'Register' link. To the right of the browser, an integrated terminal window is open, showing the command 'D:\FoodHub-master>cd backend' followed by the output of 'nodemon app', which includes logs about restarting due to changes and starting a port at 80. The taskbar at the bottom shows various application icons.

Successful Login:

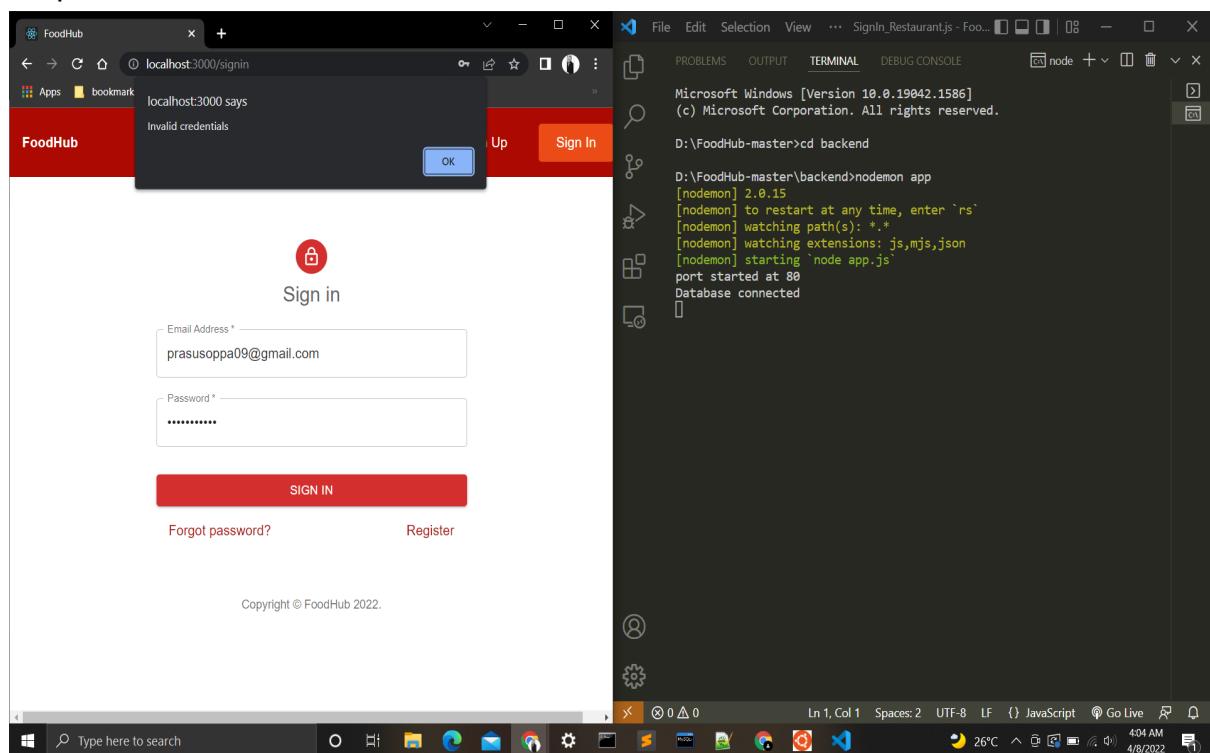


Case 2: Incorrect input

Input: Incorrect credentials are given.

Expected Output: Invalid credentials (No Login).

Output:



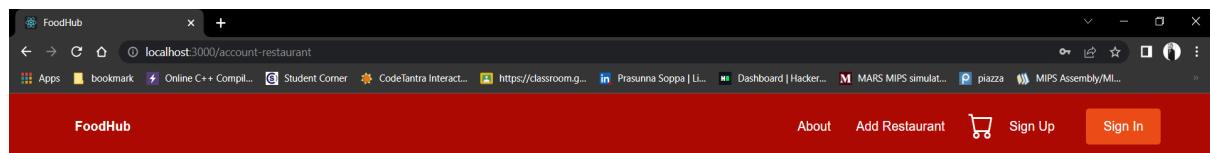
4. Restaurants should enter correct credentials to login to their account:

Case 1: Correct input

Input: Correct values are given

Expected Output: Successful Login.

Output:

A screenshot of the "Restaurant SignIn" page. It features a red lock icon at the top. Below it is a form with two input fields: "Email Address *" containing "canteen@gmail.com" and "Password *" containing several dots. A blue "SIGN IN" button is centered below the fields. At the bottom of the form are links for "Forgot password?" and "Register".

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Successful Login:

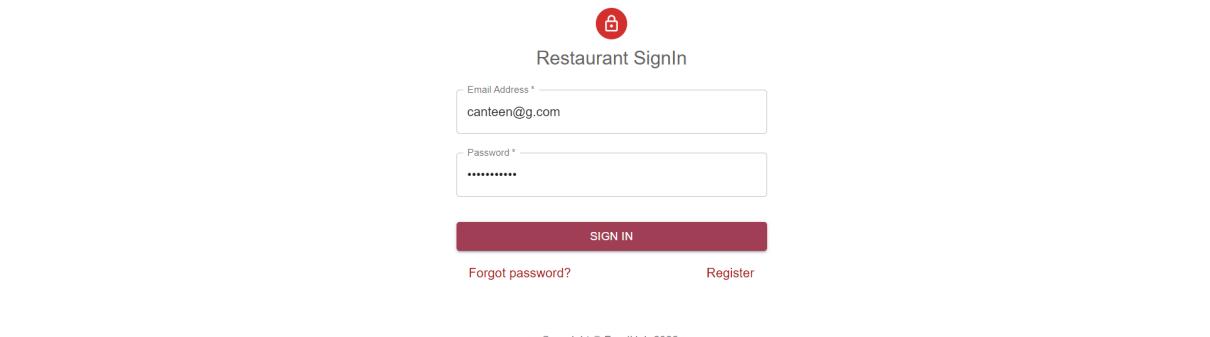
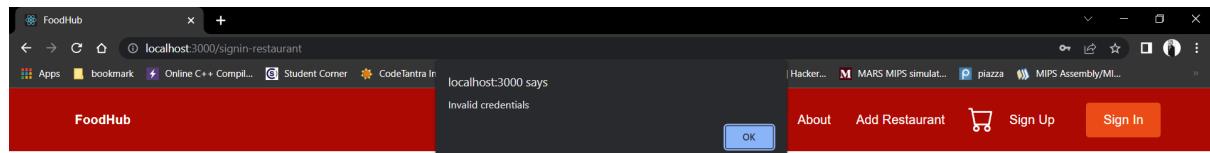
A screenshot of a Windows desktop environment. On the left, a browser window shows the "Edit Profile" page for "IIITG Canteen", with fields for Name (IIITG Canteen), Contact (98732), Email (canteen@gmail.com), and Address (IIITG Academic Building). A red "UPDATE PROFILE" button is at the bottom. To the right of the browser is a terminal window titled "admin.js" showing Node.js logs related to a successful login and database connection. Below the browser and terminal are the Windows taskbar and system tray, identical to the previous screenshot.

Case 2: Incorrect input

Input: Incorrect credentials are given.

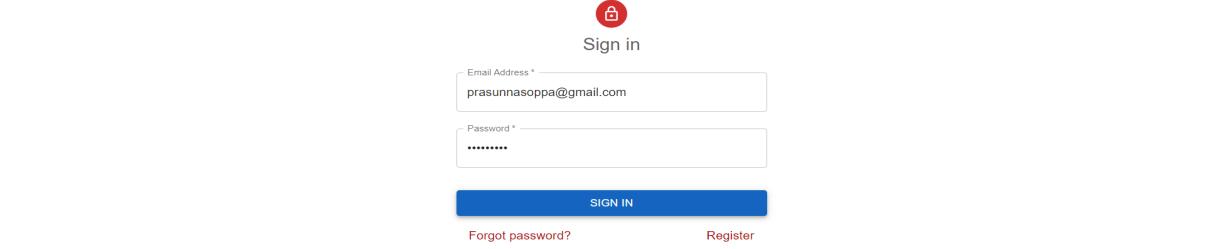
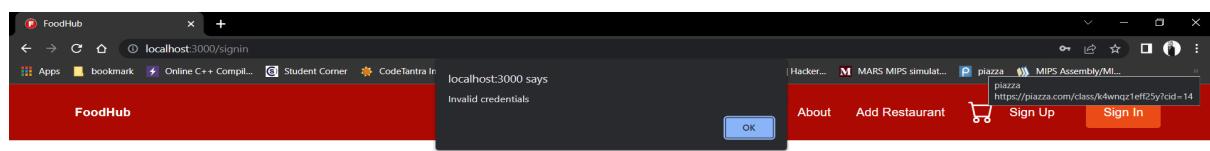
Expected Output: Invalid credentials (No Login).

Output:



5. Users can change password through OTP Verification:-

Before:



After clicking the button "Forgot Password", you will be asked for your mail id to which OTP is sent.

Verification:

The screenshot shows the FoodHub website's forgot password page. The URL in the address bar is `localhost:3000/forgot-password`. The page has a red header with the FoodHub logo and navigation links for About, Add Restaurant, Sign Up, and Sign In. The main content area features a red lock icon and the heading "Forgot Password". A text input field labeled "Email Address *" contains the value `prasunna.soppa@gmail.com`. Below the input field is a blue button labeled "SEND OTP".

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The screenshot shows a Gmail inbox with 6,555 messages. The message list includes "Starred", "Snoozed", "Sent", "Drafts" (20), and "More". The "Compose" button is visible. The main message is titled "Reset password for FoodHub!" and is from "foodhub.services2022@gmail.com" to the user. The email body contains instructions to use the One Time Password (OTP) `846589` to reset the password. It also states that the email is automatically generated by FoodHub and not to reply to it. The message was sent at 9:47 PM (0 minutes ago). Below the message are "Reply" and "Forward" buttons.

The screenshot shows the FoodHub website's password change page. The URL in the address bar is `localhost:3000/forgot-password`. The page has a red header with the FoodHub logo and navigation links for About, Add Restaurant, Sign Up, and Sign In. The main content area features a red lock icon and the heading "Forgot Password". There are three input fields: "OTP *" containing `846589`, "New Password *" containing `*****`, and "Confirm New Password *" containing `*****`. Below the input fields is a blue button labeled "CHANGE PASSWORD".

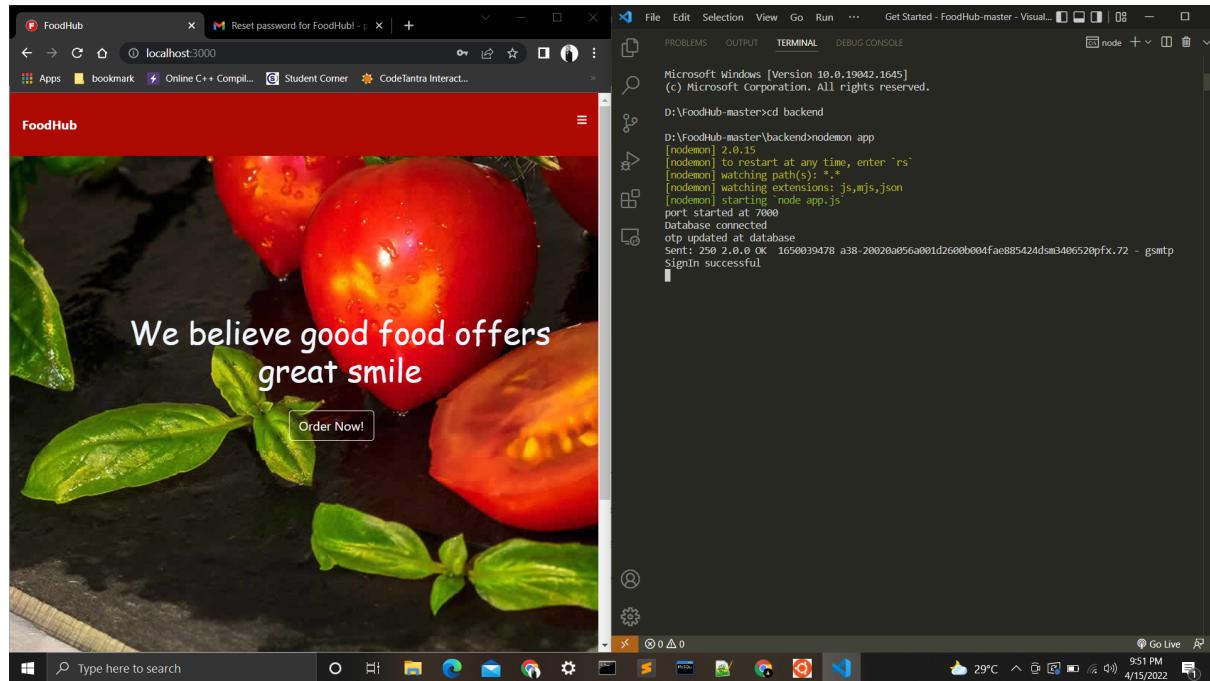
Copyright © FoodHub 2022.

The screenshot shows a Windows taskbar with various pinned icons, including File Explorer, Task View, Edge browser, Mail, Photos, and File Explorer. The system tray shows the date and time as 4/15/2022 9:49 PM, and the weather as 29°C.

After:

Expected: Successful SignIn

Output: Successful SignIn.



6. Users can update phone no. , email-id and address:-

Before updation:

A screenshot of a web browser showing the 'FoodHub' account page at 'localhost:3000/account'. The top navigation bar includes links for 'About', 'Account', a shopping cart icon, and 'Sign Out'. The main content area features a user profile picture of a man with dreadlocks, his name 'soppa', and the title 'User'. Below this is an 'Edit Profile' form with fields for 'Name' (soppa), 'Contact' (9491906885), 'Email' (prasunnsoppa@gmail.com), and 'Address' (34-14-69, Manuel Street). A red 'UPDATE PROFILE' button is at the bottom of the form. To the right of the profile is a 'Previous Orders' section with the message 'No orders'. At the bottom of the page is a 'Current Orders' section with the message 'No orders'. The taskbar at the bottom shows various pinned icons and the date/time as 4/15/2022, 2:35 PM.

After updation:

Expected output: User profile updated successfully.

Result: User profile updated successfully.

The screenshot shows a Windows desktop environment with a browser window open to the FoodHub account page at localhost:3000/account. A modal dialog box in the center says "User profile updated successfully" with an "OK" button. The main content area shows a user profile for "soppa" with a photo, name, contact, and email. Below this is a "Current Orders" section showing "No orders". To the right is an "Edit Profile" section with fields for Name (soppa), Contact (8500288390), and Email (prasunna.soppa@gmail.com). An "UPDATE PROFILE" button is present. Further down is a "Previous Orders" section also showing "No orders". The browser's address bar shows "localhost:3000/menu/6247f5bfd2498fd09af84a3". The taskbar at the bottom displays various application icons.

7. Users can see the menus of respective food stalls and order from one stall at a time:-

The screenshot shows a Windows desktop environment with a browser window open to the FoodHub menu page at localhost:3000/menu/6247f5bfd2498fd09af84a3. Three food items are displayed in cards: "Maggi" (₹30), "Veg Burger" (₹40), and "Chilli Paneer" (₹100). Each card features an illustration of a chef holding a tray with a lid, and the text "Best Food". Below each item is a quantity selector with buttons for minus, one, and plus, and an "Add" button. The browser's address bar shows "localhost:3000/menu/6247f5bfd2498fd09af84a3". The taskbar at the bottom displays various application icons.

After increasing the no.of dishes needed, click on the button “add” to add the food items to the cart.

Cart page:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/cart'. The cart contains three items: Maggi (Nescafe, 2 units, Price 30, Amount 60), Veg Burger (Nescafe, 1 unit, Price 40, Amount 40), and Chilli Paneer (Nescafe, 1 unit, Price 100, Amount 100). A red notification badge with the number '3' is visible on the shopping cart icon in the top right corner. The top navigation bar includes links for 'About', 'Account', and 'Sign Out'.

Cart				
Name	Restaurant	Quantity	Price	Amount
Maggi	Nescafe	2	30	60
Veg Burger	Nescafe	1	40	40
Chilli Paneer	Nescafe	1	100	100

Total Amount to be paid: ₹ 200

CLEAR **CHECKOUT**



Click on the checkout button to direct to the checkout page.

Checkout page:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/checkout'. The page is titled 'Checkout' and displays the first step: 'Delivery address'. It shows an address entry field with 'IITG Acad Building' and a note 'Address line 1 *'. Below it are fields for 'Address line 2', 'City *' (Guwahati), and 'Zip / Postal code *' (781015). At the bottom are 'CANCEL' and 'NEXT' buttons. A red notification badge with the number '3' is visible on the shopping cart icon in the top right corner. The top navigation bar includes links for 'About', 'Account', and 'Sign Out'.

The screenshot shows the 'Checkout' page with the 'Delivery address' step selected. The address 'IITG Acad Building' is entered in the 'Address line 1' field. Below it are fields for 'Address line 2', 'City *' (Guwahati), and 'Zip / Postal code *' (781015). At the bottom are 'CANCEL' and 'NEXT' buttons. Copyright © FoodHub 2022 is displayed at the bottom.



After filling the address to which food should be delivered and then click the next button.

You'll be directed to the payment for which you have two options:

i)Cash On delivery:-

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/checkout'. The title bar says 'Reset password for FoodHub -'. The main content is a 'Checkout' form. At the top, there are three steps: 1. Delivery address (checkmark), 2. Payment details (checkmark), and 3. Review your order (not checked). Below this is a 'Payment method' section with two options: 'Cash on Delivery' (selected, indicated by a blue outline) and 'Razorpay Payment Gateway' (unselected). At the bottom are 'CANCEL', 'BACK', and a red 'NEXT' button.

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Click the next button to review your order and then place and can schedule your delivery by commenting in the preorder input box.

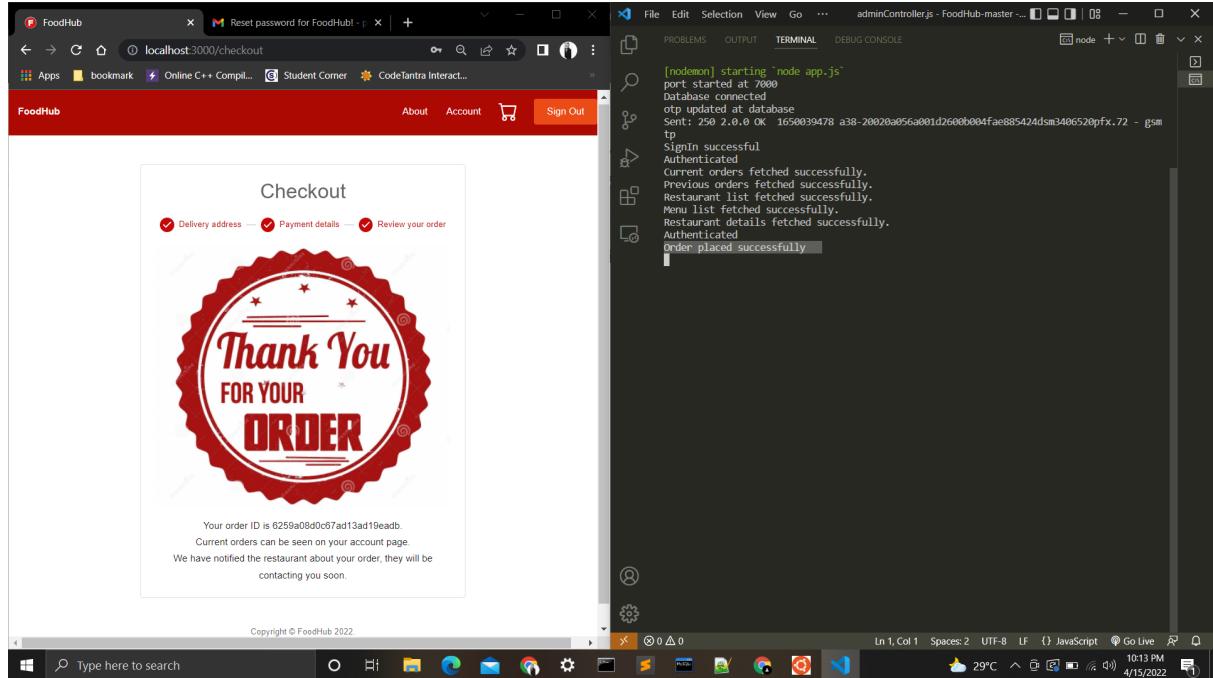
The screenshot shows the same 'FoodHub' checkout page as before, but now it includes an 'Order summary' table. The table lists items: Maggi (2 units, ₹60), Veg Burger (1 unit, ₹40), and Chilli Paneer (1 unit, ₹100). A horizontal line separates this from the 'Total' row, which shows ₹200. Below the table, the 'Delivery' information is listed: 'soppa' at 'IIITG Acad Building, Guwahati, 781015'. The 'Payment method' is set to 'Cash on Delivery'. At the bottom is a 'Pre-order Comments for Restaurant' input field containing a single character 'I', and a red 'PLACE ORDER' button.



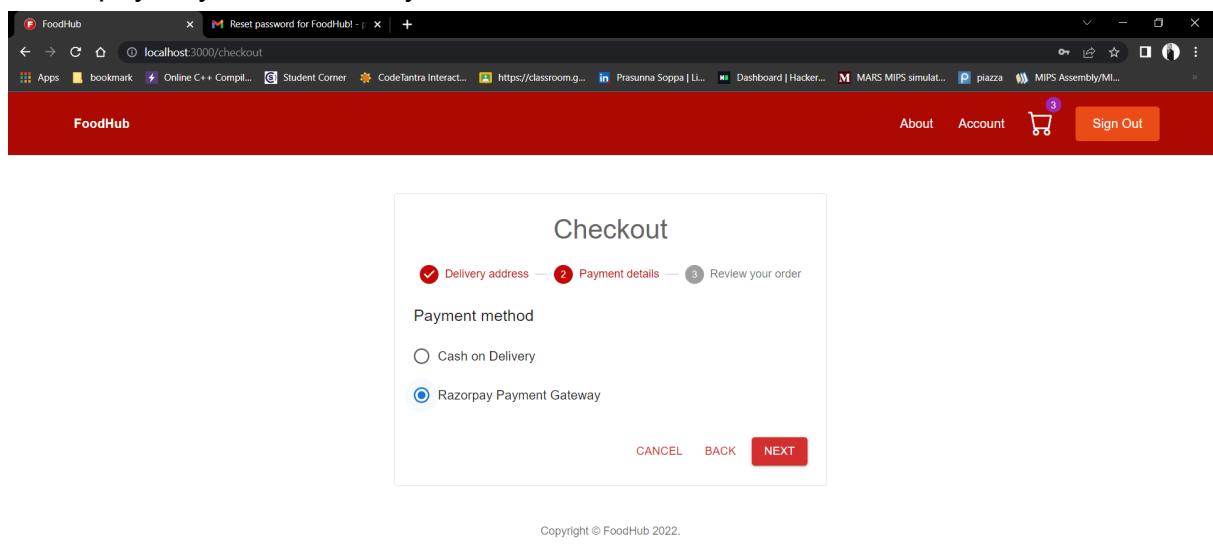
Click on the “Place Order” button to place your order.

Expected o/p: Thank you for your order

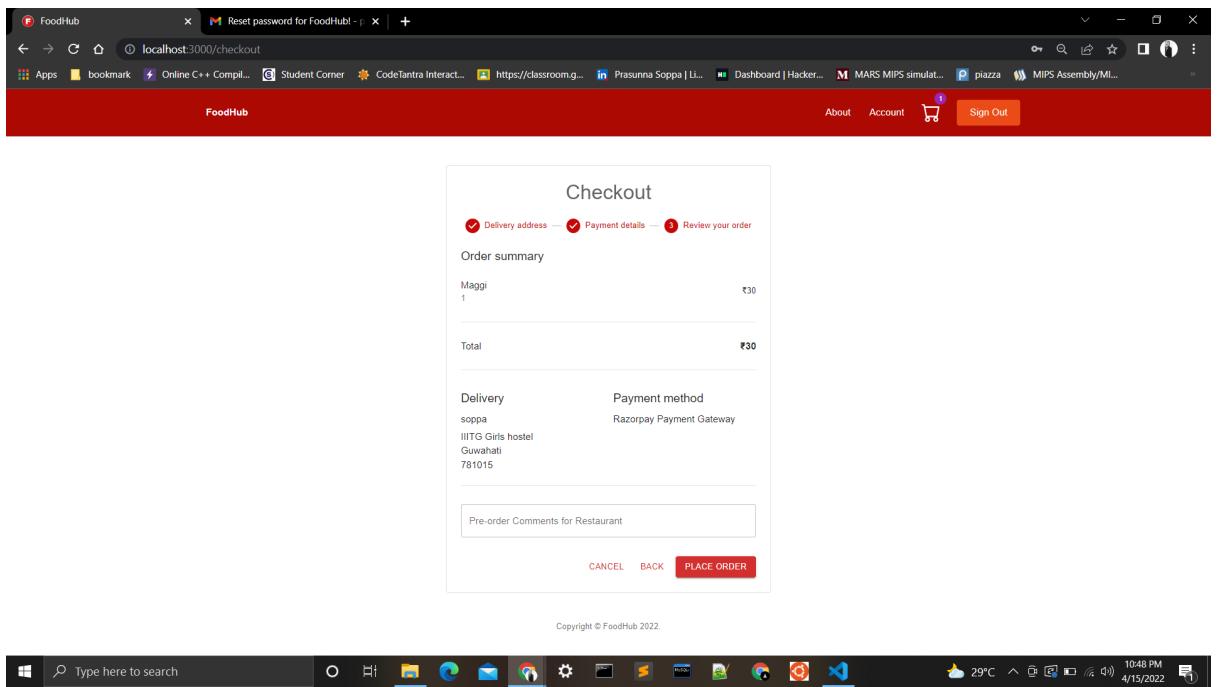
Output: Thank you for your order with order ID.



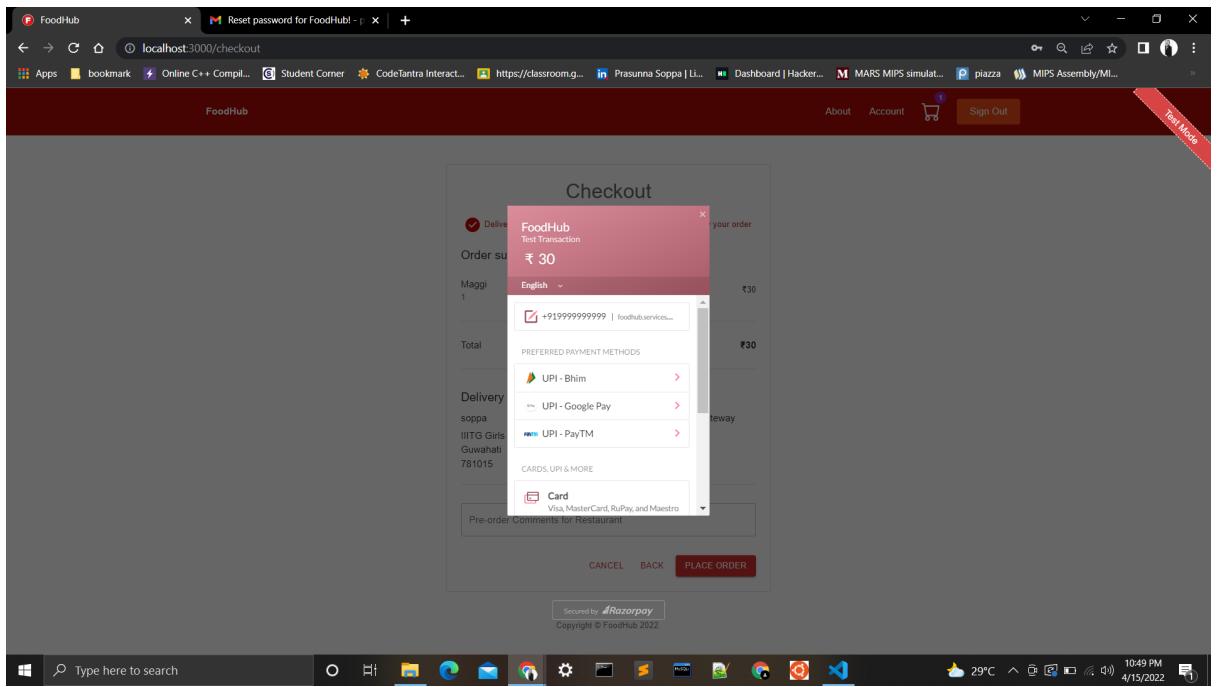
ii) Razorpay Payment Gateway:-



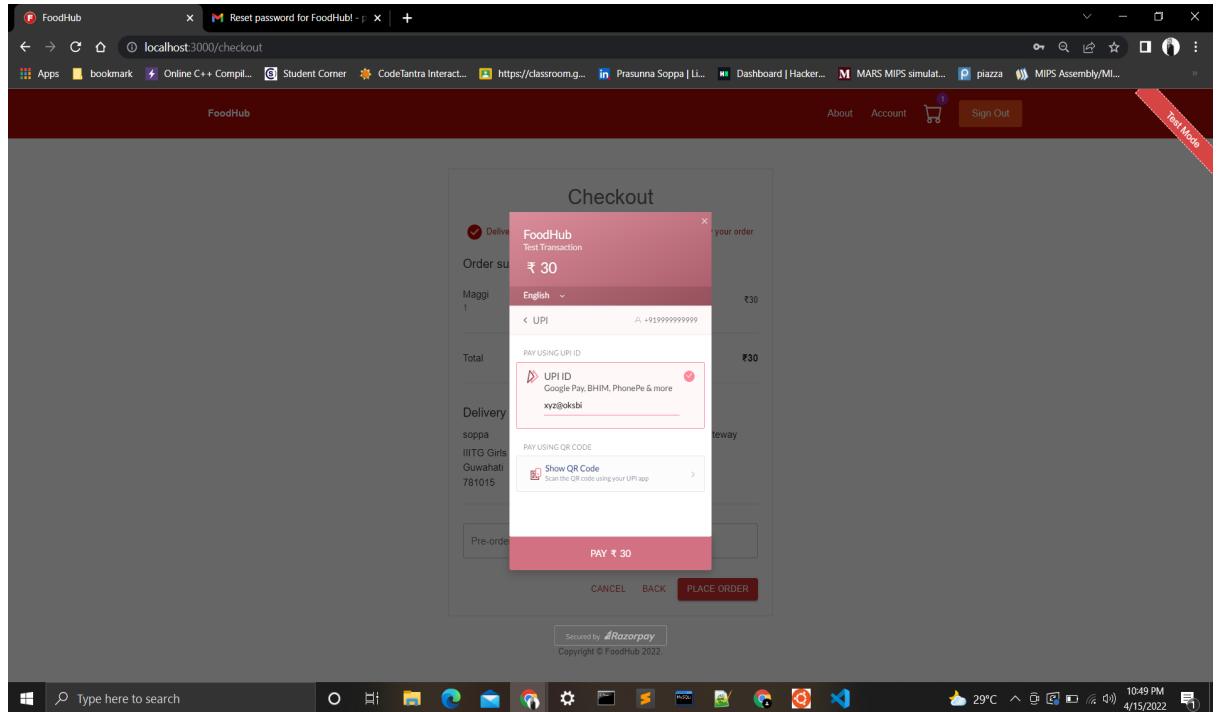
Click the next button to review your order and then place and can schedule your delivery by commenting in the preorder input box.



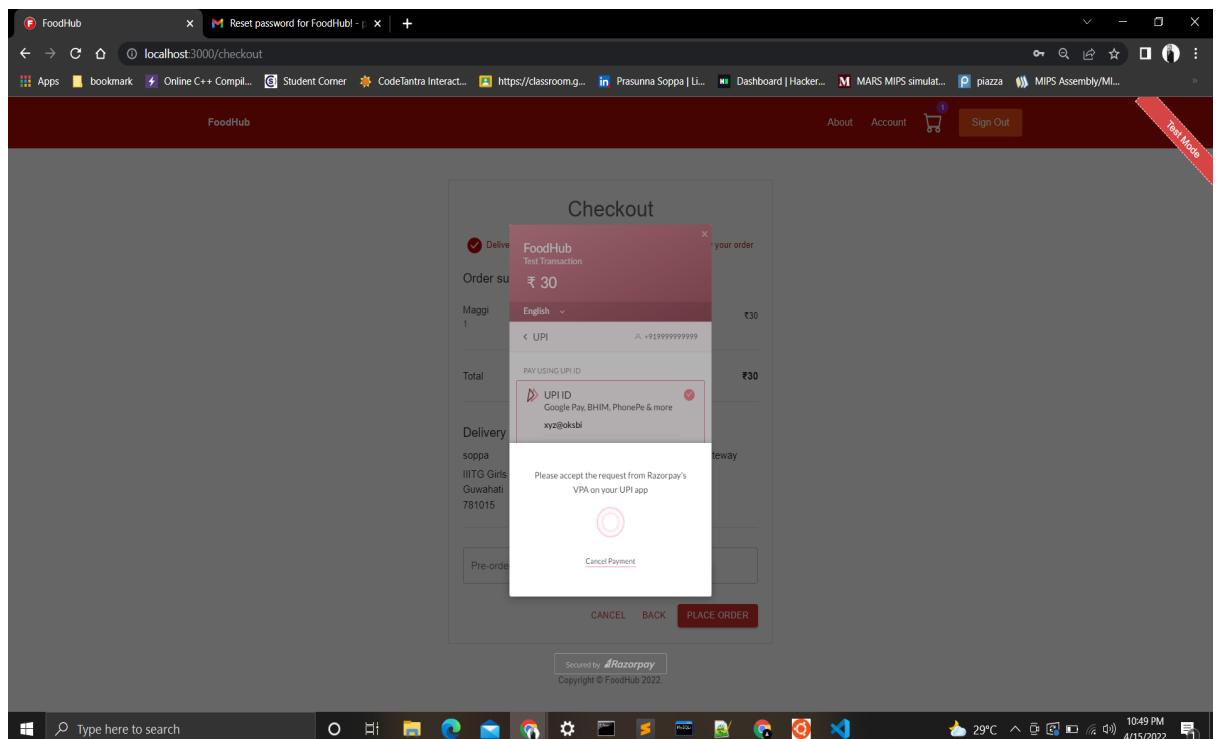
Click on the “Place Order” button to place your order.
A box will pop up asking the method of transaction(convenient one).



Users should give the details of the account, so that a request will be sent for transaction.



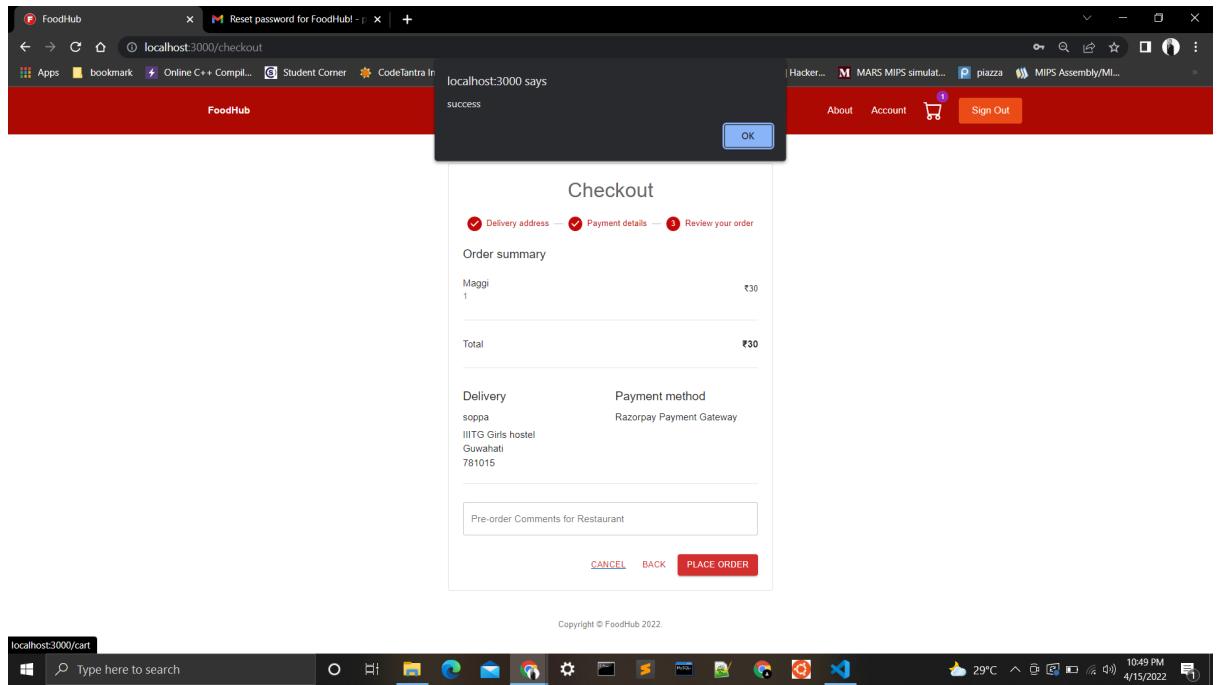
A request will be sent to the given account and should accept it for the transaction.



Once the request is accepted, payment will be done.

Expected o/p: Success

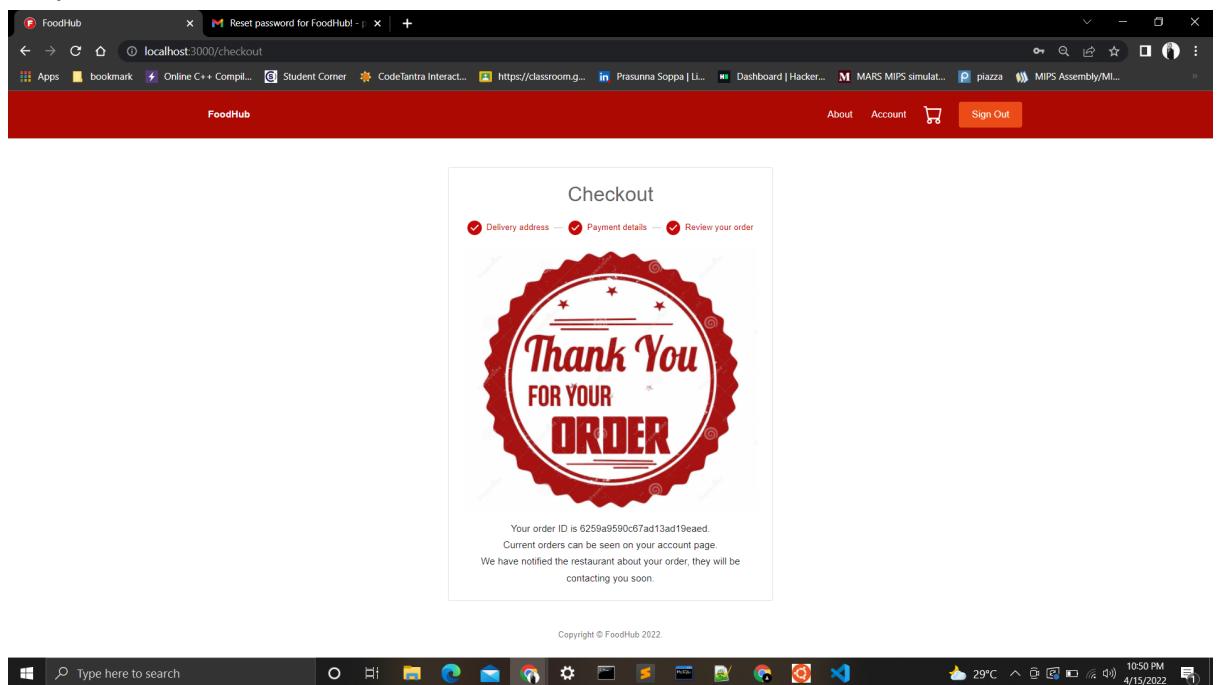
Output:



Click on the “Place Order” button to place your order.

Expected o/p: Thank you for your order

Output:



8.Restaurants can insert, update and remove the food items from the menu list:

i)Inserting new dish:

Clicking on save, the dish will be added to the menu list.

The screenshot shows the FoodHub application interface. At the top, there is a header bar with links for 'About', 'Account', 'Orders', and 'Sign Out'. Below the header, there are two main sections: 'Edit Profile' and 'Update Menu'. In the 'Edit Profile' section, the user has entered 'Nescafe' for Name, '9898781230' for Contact, and 'nescafe@gmail.com' for Email. The 'Address' field contains 'Bongora, IIITG'. A red 'UPDATE PROFILE' button is at the bottom. In the 'Update Menu' section, the user has entered 'Veg Fried Rice' for Name, '75' for Price, and selected 'Available' from a dropdown for Status. A red 'SAVE' button is at the bottom. To the right, a 'Menu' table lists food items with columns for Name, Price (₹), and Status. The items listed are Maggi (₹30, Available), Veg Burger (₹40, Available), Chilli Paneer (₹100, Available), and Masala Dosa (₹70, Not Available).

Before(from client side):

The screenshot shows the FoodHub application interface from the client's perspective. The header bar includes 'About', 'Account', a shopping cart icon, and 'Sign Out'. Below the header, there are three cards for menu items: 'Maggi' (₹30), 'Veg Burger' (₹40), and 'Chilli Paneer' (₹100). Each card features an illustration of a chef holding a tray with a lid, and the text 'Best Food' is overlaid. Below each item name is its price and a quantity selector with a plus and minus button, followed by a red 'Add ₹0' button.



After adding the dish:

The screenshot shows the FoodHub website's menu page. At the top, there is a red header bar with the title "FoodHub" and navigation links for "About", "Account", and "Sign Out". Below the header, there are four menu items displayed in a grid:

Dish Name	Price (₹)	Action Buttons
Maggi	30	<input type="button" value="-"/> <input type="button" value="0"/> <input type="button" value="+"/> <input type="button" value="Add ₹0"/>
Veg Burger	40	<input type="button" value="-"/> <input type="button" value="0"/> <input type="button" value="+"/> <input type="button" value="Add ₹0"/>
Chilli Paneer	100	<input type="button" value="-"/> <input type="button" value="0"/> <input type="button" value="+"/> <input type="button" value="Add ₹0"/>
Veg Fried Rice	75	<input type="button" value="-"/> <input type="button" value="0"/> <input type="button" value="+"/> <input type="button" value="Add ₹0"/>

ii) Updating the dish:

Dish's cost and its availability can be updated when needed.

Updating its cost:

Before:

The screenshot shows the FoodHub website's account page. At the top, there is a red header bar with the title "FoodHub" and navigation links for "About", "Account", "Orders", and "Sign Out". Below the header, there are two main sections: "Edit Profile" and "Update Menu".

Edit Profile:

Name	Contact	Email
Nescafe	9898781230	nescafe@gmail.com

Address:
Bongora, IITG

UPDATE PROFILE

Update Menu:

Name	Price (₹)	Status
Maggi	30	Available
Veg Burger	40	Available
Chilli Paneer	100	Available
Masala Dosa	70	Not Available
Veg Fried Rice	75	Available

After clicking the save button, its cost will be updated.

Edit Profile

Name	Contact	Email
Nescafe	9898781230	nescafe@gmail.com

Address

Bongora, IITG

UPDATE PROFILE

Update Menu

Name	Price (₹)	Status
Maggi	45	Available

Menu

Name	Price (₹)	Status
Maggi	45	Available
Veg Burger	40	Available
Chilli Paneer	100	Available
Masala Dosa	70	Not Available
Veg Fried Rice	75	Available

From Client side:

FoodHub

FoodHub

Menu

Maggi	₹45
Veg Burger	₹40
Chilli Paneer	₹100
Veg Fried Rice	₹75

Type here to search

Its availability can be updated by changing its status from available to non-available or the other way.

The screenshot shows the FoodHub application's account management interface. At the top, there are tabs for 'FoodHub' and 'localhost:3000/account-restaurant'. Below the tabs, there are links for 'About', 'Account', 'Orders', and 'Sign Out'. On the left, there is a sidebar with a profile picture of a restaurant named 'Nescafe' and a link to 'Update Menu'. The main area has two sections: 'Edit Profile' (with fields for Name, Contact, Email, and Address) and 'Menu' (listing dishes like Maggi, Veg Burger, Chilli Paneer, Masala Dosa, and Veg Fried Rice with their prices and availability status). The Windows taskbar at the bottom shows various open applications and the date/time.

From Client side:
Only available dishes are shown in the menu for the user.

The screenshot shows the FoodHub application's menu page. It displays three items: 'Veg Burger' (₹40), 'Chilli Paneer' (₹100), and 'Veg Fried Rice' (₹75). Each item is accompanied by a cartoon chef holding a tray with the text 'Best Food'. Below each item is a quantity selector with buttons for minus, zero, and plus, and a red 'Add To' button. The Windows taskbar at the bottom shows various open applications and the date/time.

iii) Dish can be removed by just changing its status from available to non-available.

9.Restaurants can view the current orders and previous orders:

Current orders:

The screenshot shows a web browser window with two tables of current orders. The top table has an order ID of 6259a9590c67ad13ad19eaed and the bottom table has an order ID of 6259a08d0c67ad13ad19eadb. Both tables include columns for Dish, Quantity, Amount, Customer, Email, Contact, Delivery Address, and Payment Method.

Dish	Quantity	Amount	Customer	Email	Contact	Delivery Address	Payment Method
Maggi	1	30	soppa	prasunnasoppa@gmail.com	8500288390	IITG Girls hostel Guwahati 781015	Razorpay Payment Gateway

Dish	Quantity	Amount	Customer	Email	Contact	Delivery Address	Payment Method
Maggi	2	60	soppa	prasunnasoppa@gmail.com	8500288390	IITG Acad Building Guwahati 781015	Cash on Delivery
Veg Burger	1	40	soppa	prasunnasoppa@gmail.com	8500288390	IITG Acad Building Guwahati 781015	Cash on Delivery

Once the food is delivered, that order will be moved to the “previous order” section on clicking the “received” button from the user account.

After clicking on the received button: