

**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:-

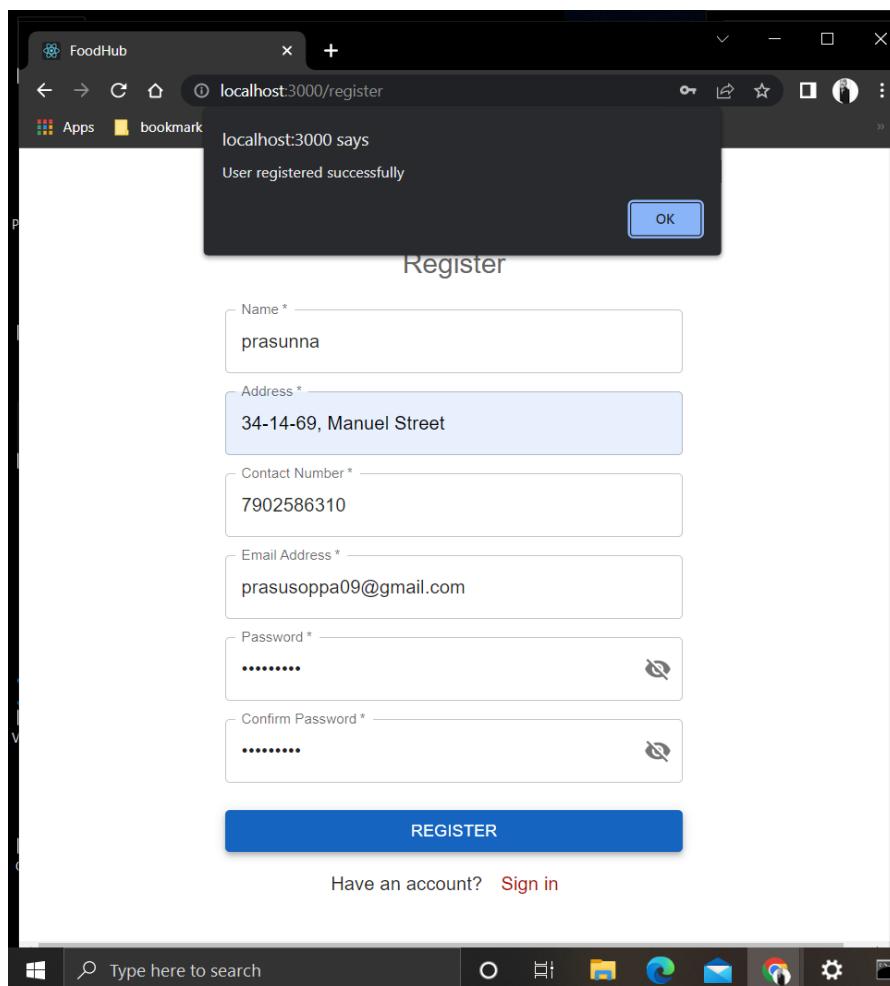
1. Users must have a valid Username, address, email and password to register thus creating their individual profiles:

### 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$12$Jj14gGud4U7ij4J.h6Qz4O2l2efJ0DwvRv1FgcyJHnO9Y72yam4zG"
__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
```

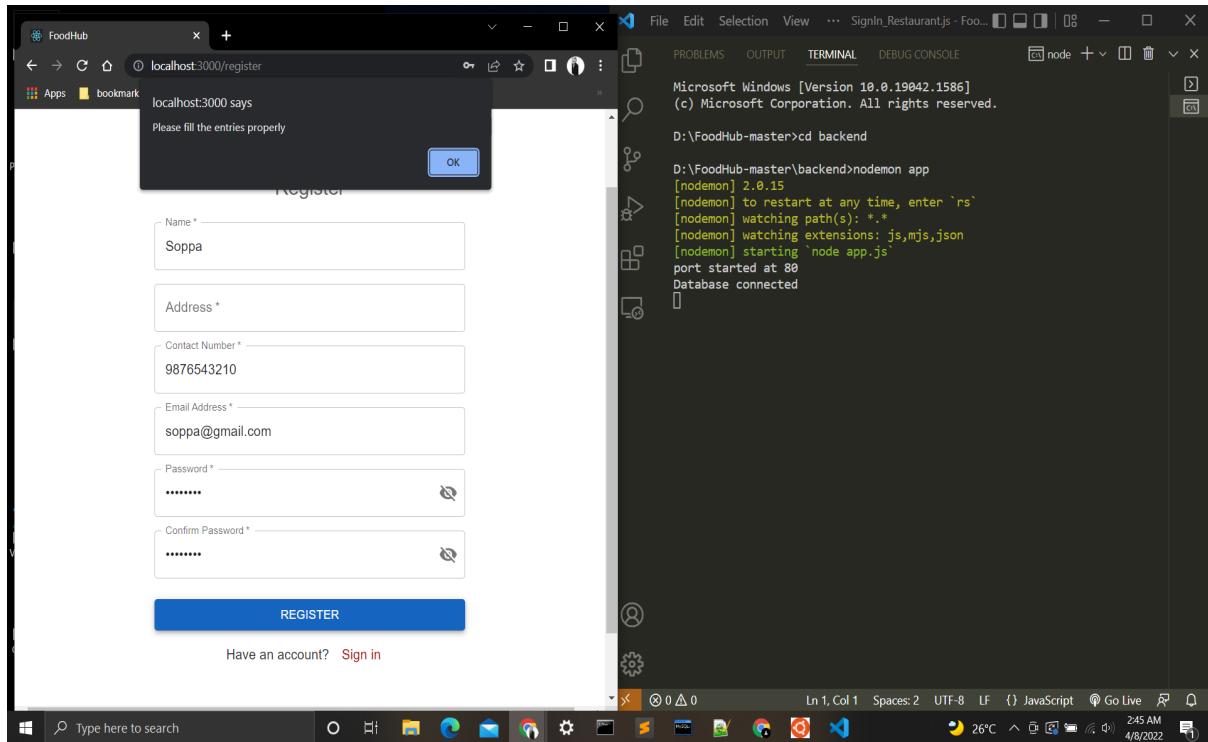
System Status: All Good

## Case 2: Incorrect Input

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

Expected Output: Fill the entries properly.

Output:

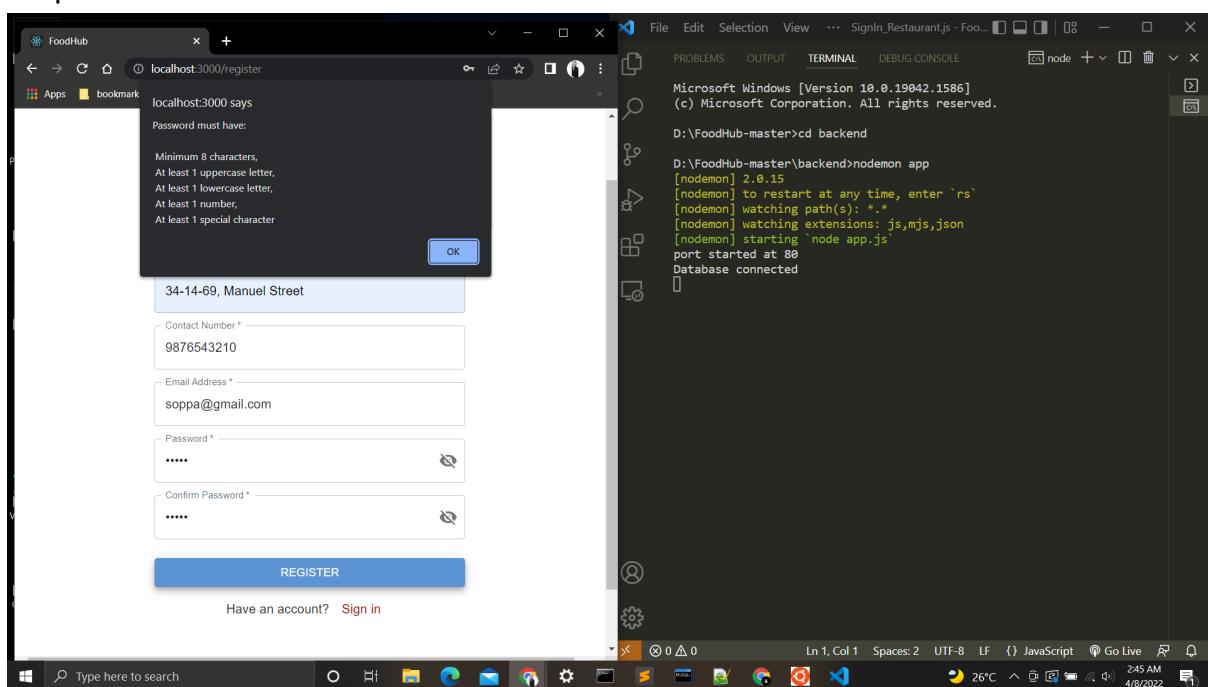


## Case 3: Incorrect password

Input: Shorter password

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

Output:

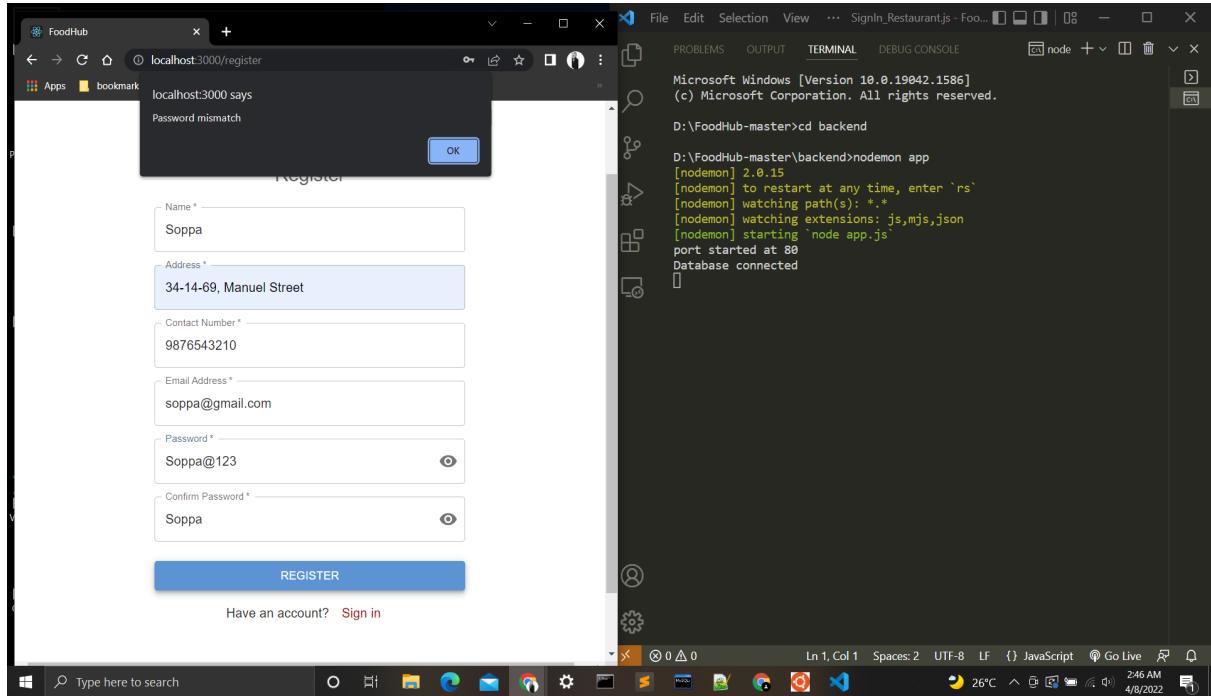


## Case 4: Password mismatch

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

Expected Output: Password mismatch

Output:

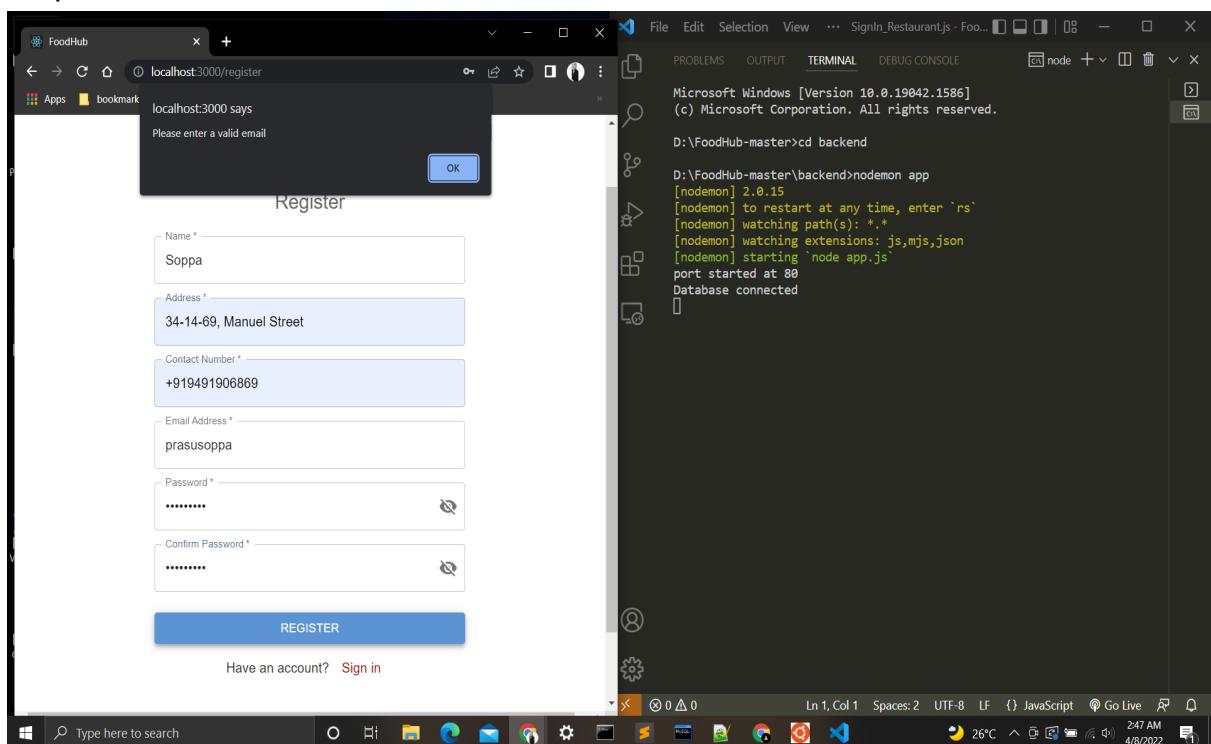


## Case 5: Invalid email address

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. The terminal output includes the version "2.0.15", restart instructions, watching paths, extensions, and port information. It also mentions "Database connected". The taskbar at the bottom shows various application icons and the date/time "4/8/2022 3:39 AM".

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("6247f5bf2498fd09ef84a3")
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
```

The browser taskbar at the bottom shows the date/time "4/8/2022 3:38 AM".

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 browser 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 of the browser is an integrated terminal window titled 'Microsoft Windows [Version 10.0.19042.1586]'. It shows the command 'D:\FoodHub-master>cd backend' followed by the output of 'nodemon app', which includes the message 'port started at 80' and 'Database connected'. The taskbar at the bottom shows various application icons.

### 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 browser displays the message: 'Password mismatch'. To the right of the browser is an integrated terminal window titled 'Microsoft Windows [Version 10.0.19042.1586]'. It shows the command 'D:\FoodHub-master>cd backend' followed by the output of 'nodemon app', which includes the message 'port started at 80' and 'Database connected'. The taskbar at the bottom shows various application icons.

## 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 page displays a registration form with fields for Name, Address, Contact Number, Email Address, Password, and Confirm Password. An error message 'Please enter a valid email' is shown above the Email Address field. Below the form is a 'REGISTER' button and a 'Sign in' link. To the right of the browser is a Microsoft Visual Studio Code terminal window. The terminal shows the command 'D:\FoodHub-master\backend>nodemon app' being run, with output indicating the app is running on port 80 and connected to the database. The Windows taskbar at the bottom includes icons for File Explorer, Edge, and other applications.

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

## Case 1: Correct input

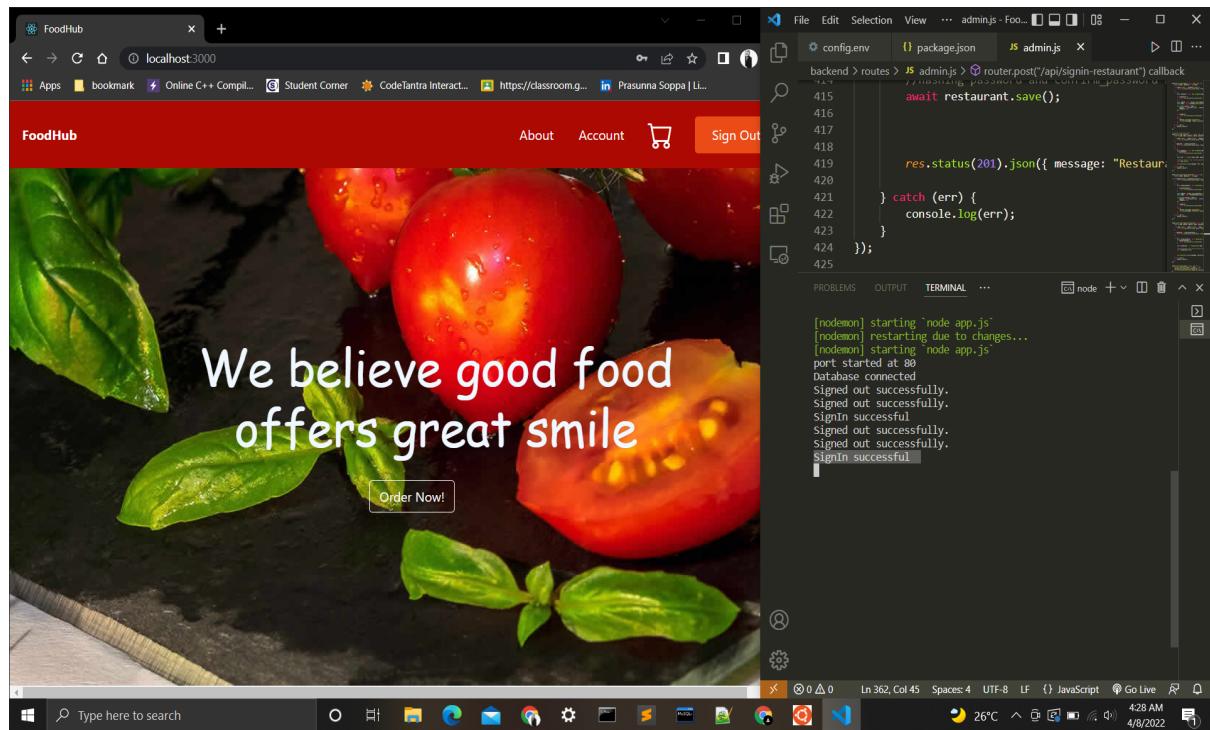
Input: Correct values are given

Expected Output: Successful Login.

Output:

The screenshot shows a browser window for 'FoodHub' at 'localhost:3000/signin'. The page displays a sign-in form with fields for Email Address and Password. Below the form is a 'SIGN IN' button and links for 'Forgot password?' and 'Register'. To the right of the browser is a Microsoft Visual Studio Code terminal window. The terminal shows the command 'D:\FoodHub-master\backend>node app.js' being run, with output indicating the app is running on port 80 and connected to the database. The Windows taskbar at the bottom includes icons for File Explorer, Edge, and other applications.

## Successful Login:

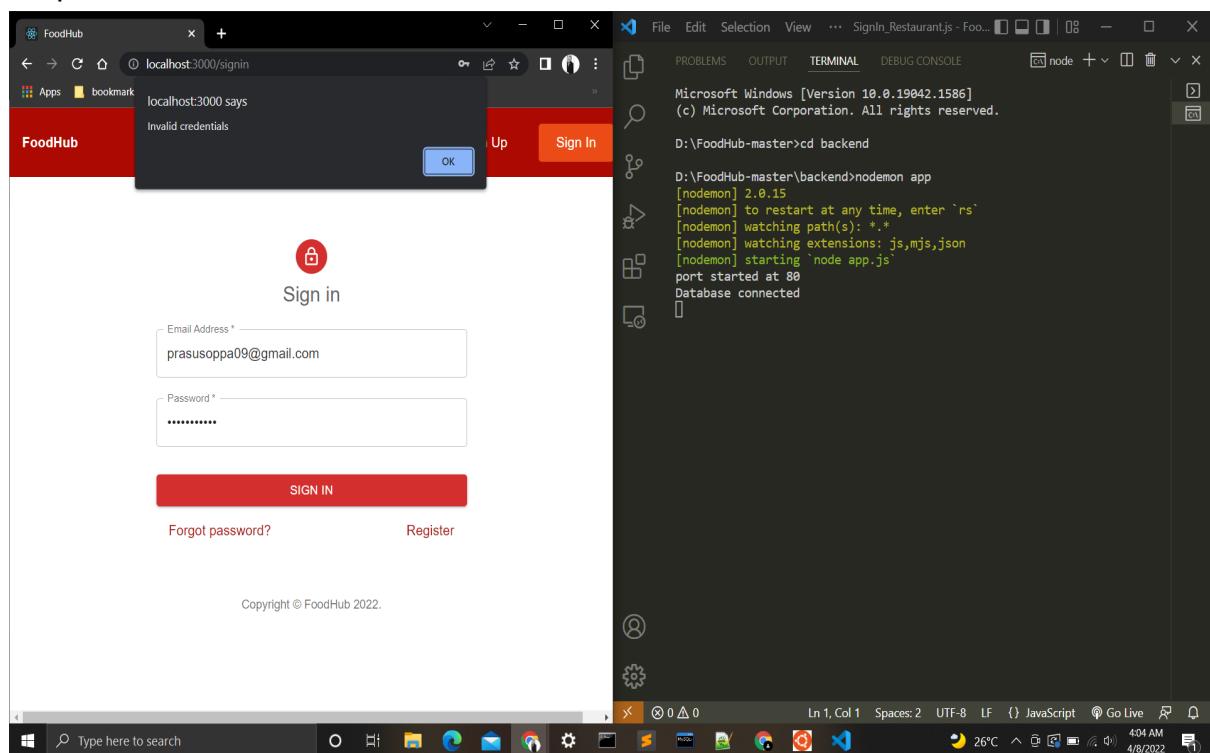


## Case 2: Incorrect input

Input: Incorrect credentials are given.

Expected Output: Invalid credentials (No Login).

Output:



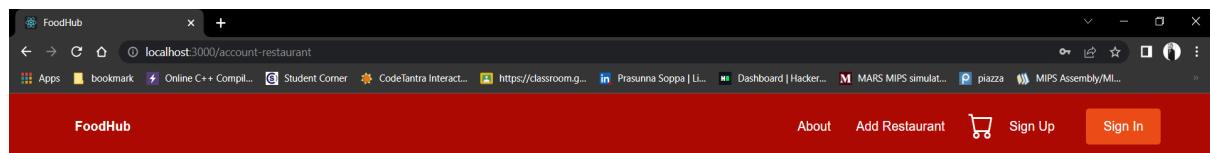
#### 4. Restaurants should enter correct credentials to login to their account:

##### **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:**

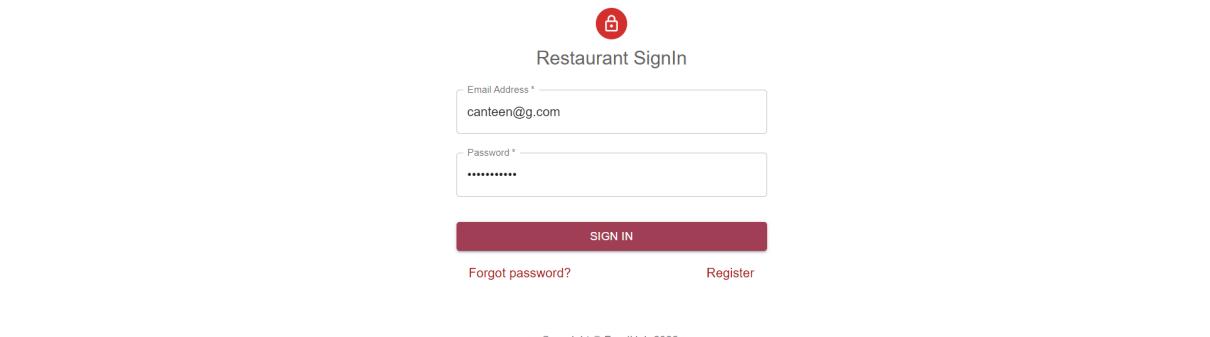
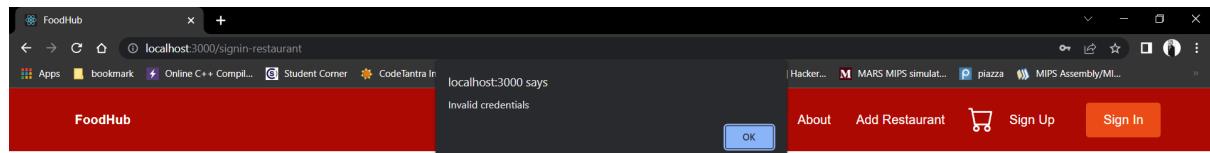
A screenshot of the FoodHub website after successful login. On the left, there's a sidebar with a photo of a restaurant interior and the text "IIITG Canteen". The main area has three tabs: "Edit Profile", "Update Menu", and "Menu". The "Edit Profile" tab shows fields for Name (IIITG Canteen), Contact (98732), Email (canteen@gmail.com), and Address (IIITG Academic Building). The "Update Menu" tab shows fields for Dish Name, Price (₹), and Status (Available). The "Menu" tab displays a table with columns "Name", "Price (₹)", and "Status". To the right of the browser, a terminal window in a code editor shows Node.js logs related to the sign-in process. The terminal output includes messages about starting the app, connecting to the database, and successfully signing in.

## Case 2: Incorrect input

Input: Incorrect credentials are given.

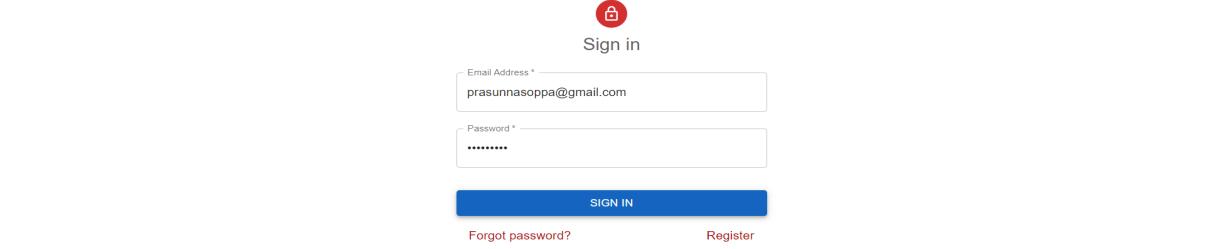
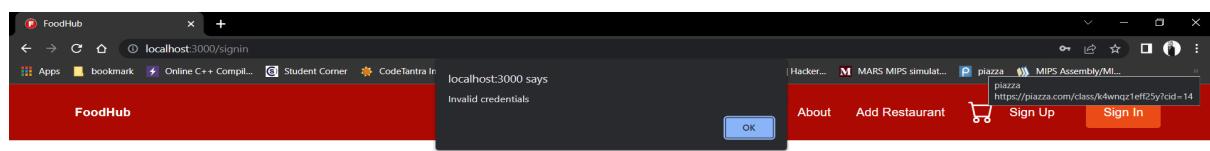
Expected Output: Invalid credentials (No Login).

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".

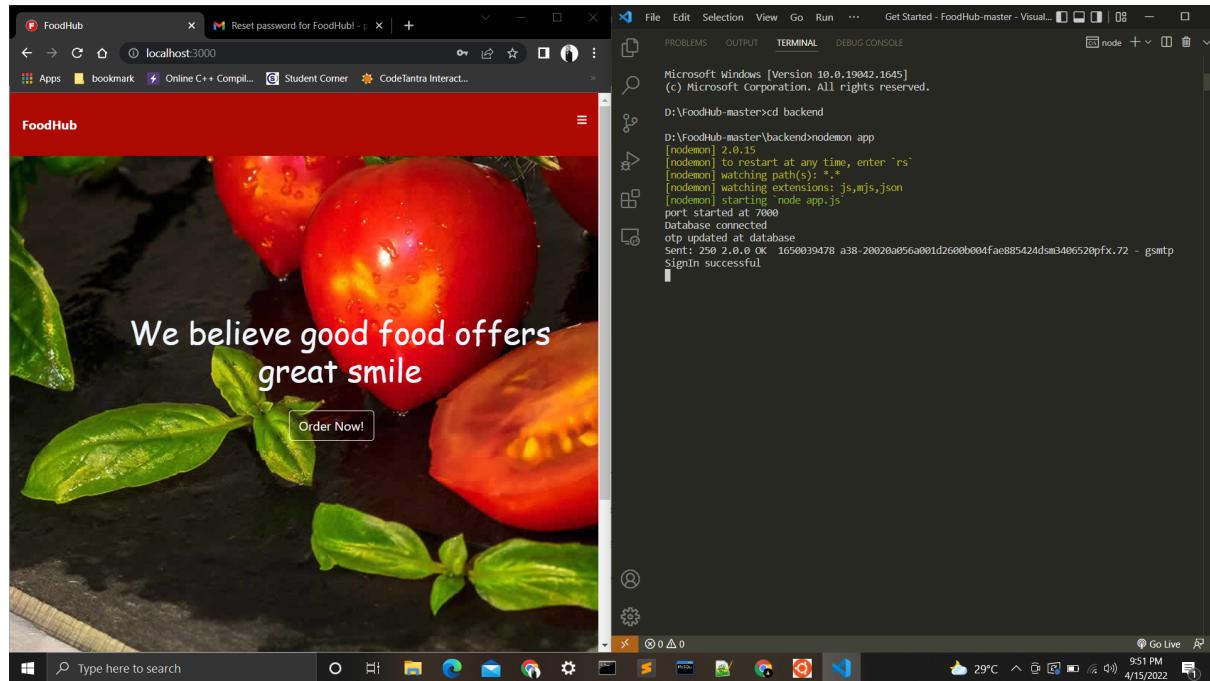
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The screenshot shows a Windows taskbar with various pinned icons, including File Explorer, Task View, Edge browser, Mail, Photos, and File Explorer. The system tray shows the date and time as 4/15/2022 9:49 PM, and the weather as 29°C.

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 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, Contact, and Email, and an "UPDATE PROFILE" button. Further down is a "Previous Orders" section showing "No orders". The browser's address bar shows the URL as "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 the URL as "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 'FoodHub' and '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.

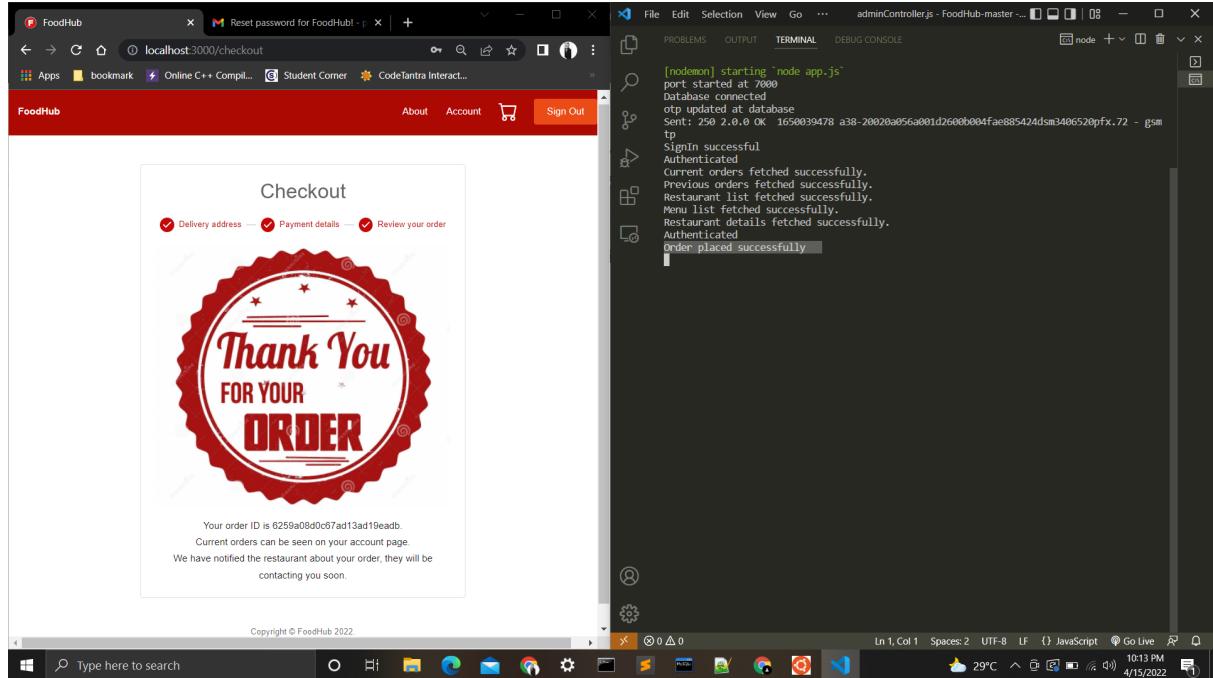
The screenshot shows the same 'FoodHub' checkout page as before, but now it includes an 'Order summary' table. The table lists items: Maggi (2 units, ₹60), Veg Burger (1 unit, ₹40), and Chilli Paneer (1 unit, ₹100). A horizontal line separates this from the 'Total' row, which shows ₹200. Below the table, the 'Delivery' information is listed: 'soppa' as the delivery person, 'IIITG Acad Building' as the location, and 'Guwahati' as the city, with the pin code '781015'. To the right, 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.



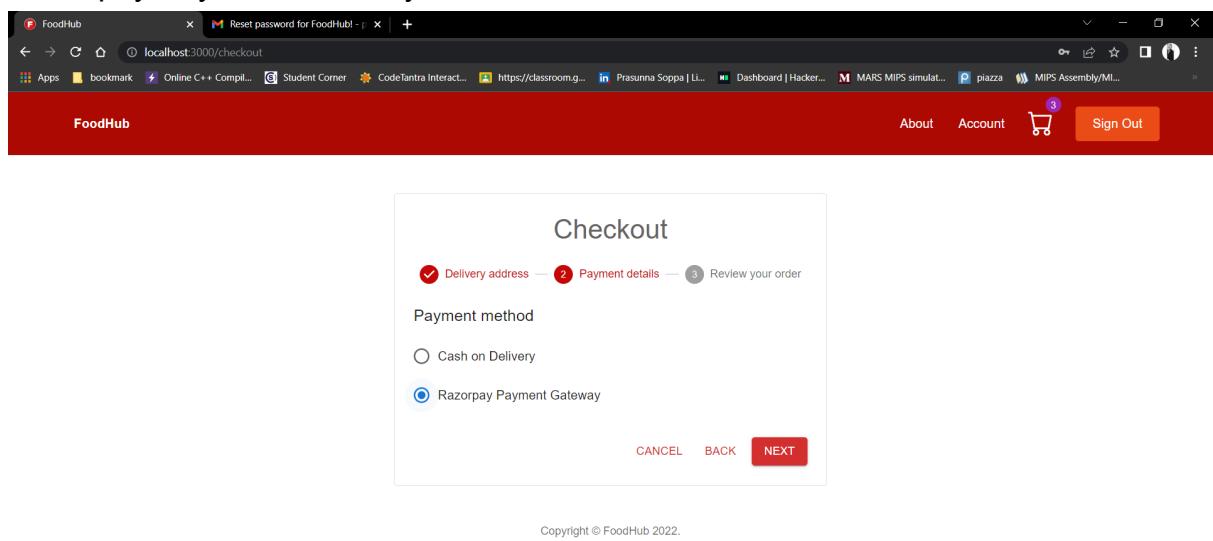
Click on the “Place Order” button to place your order.

Expected o/p: Thank you for your order

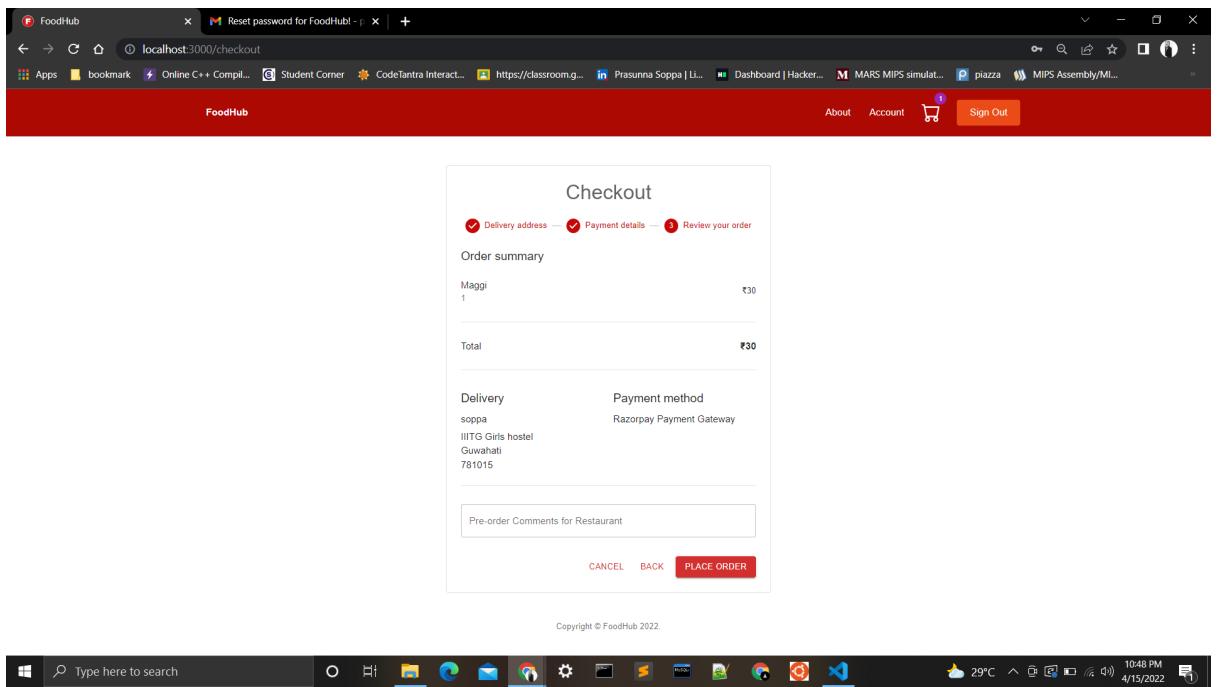
Output: Thank you for your order with order ID.



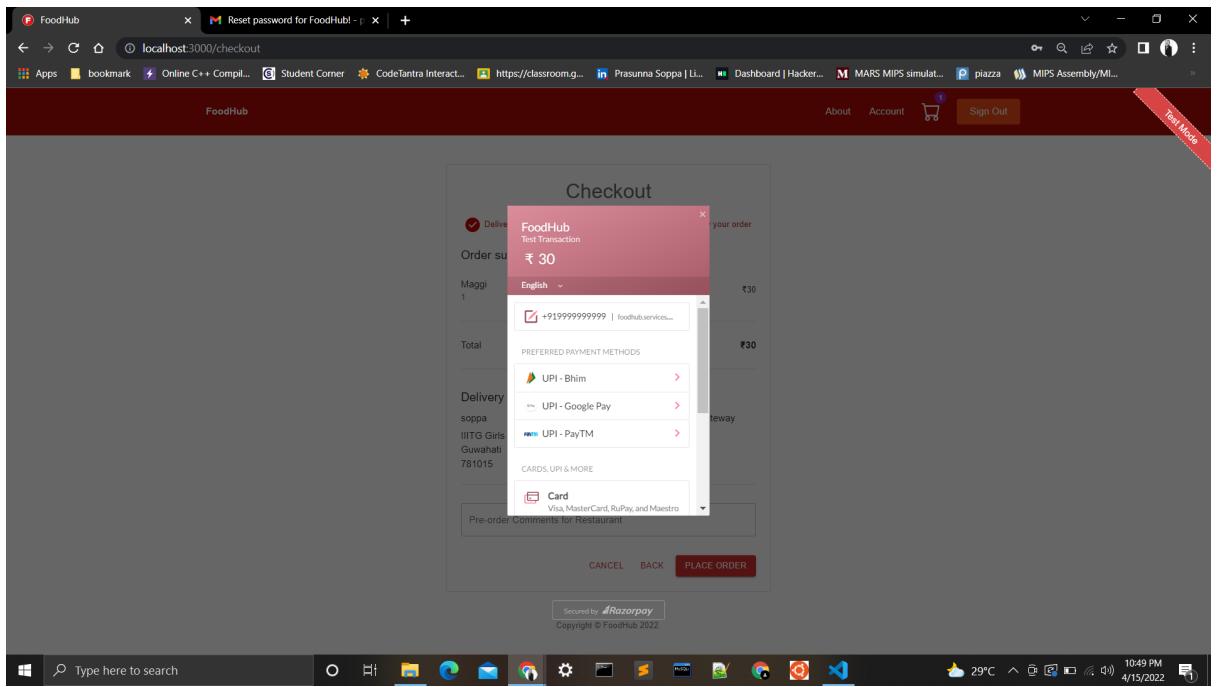
## ii) Razorpay Payment Gateway:-



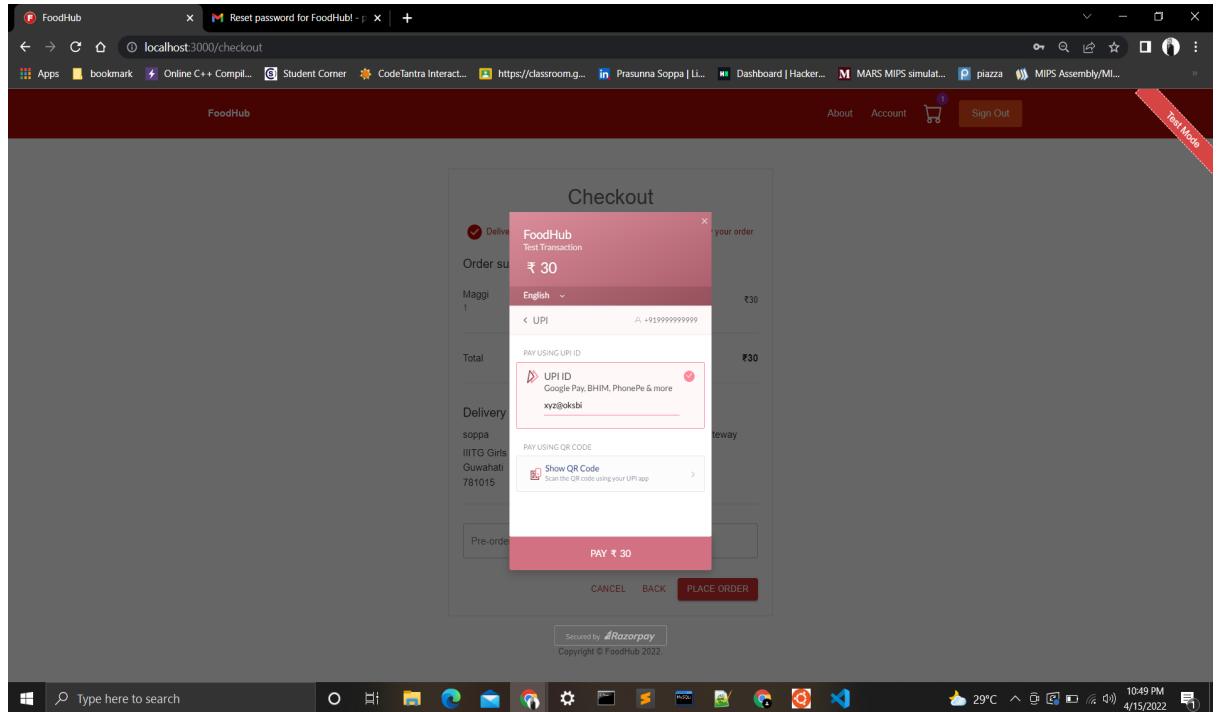
Click the next button to review your order and then place and can schedule your delivery by commenting in the preorder input box.



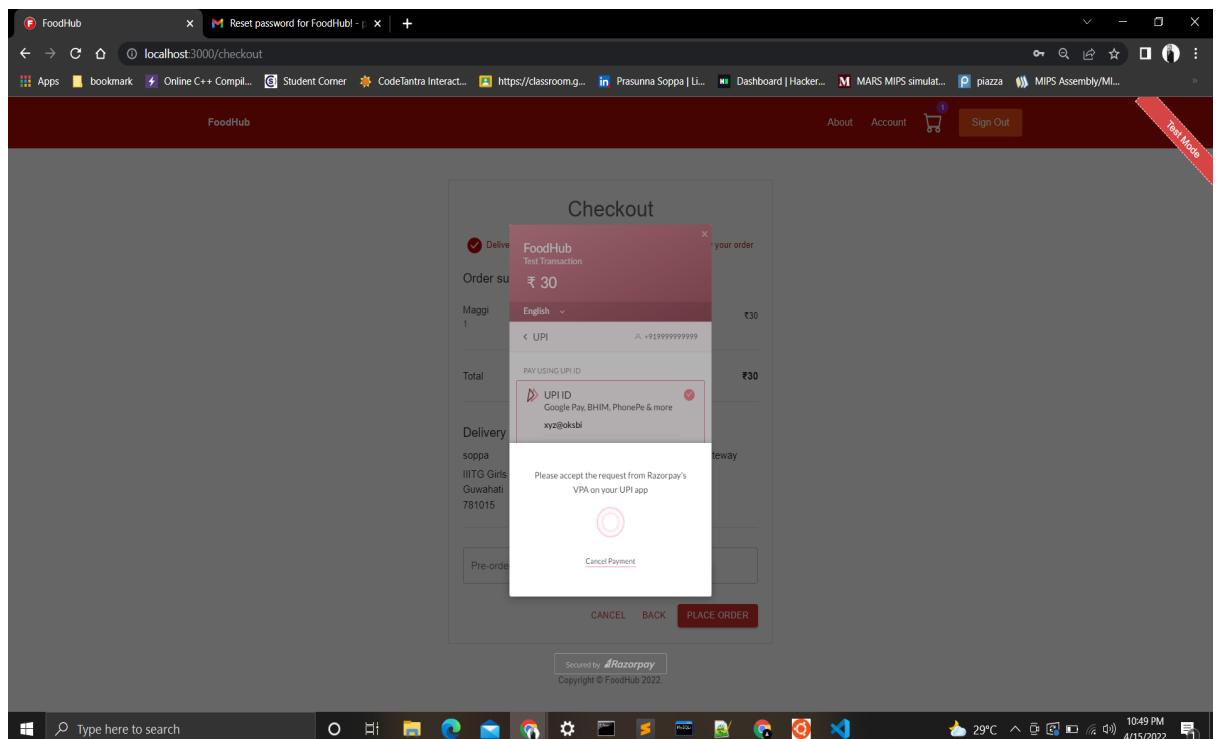
Click on the “Place Order” button to place your order.  
A box will pop up asking the method of transaction(convenient one).



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



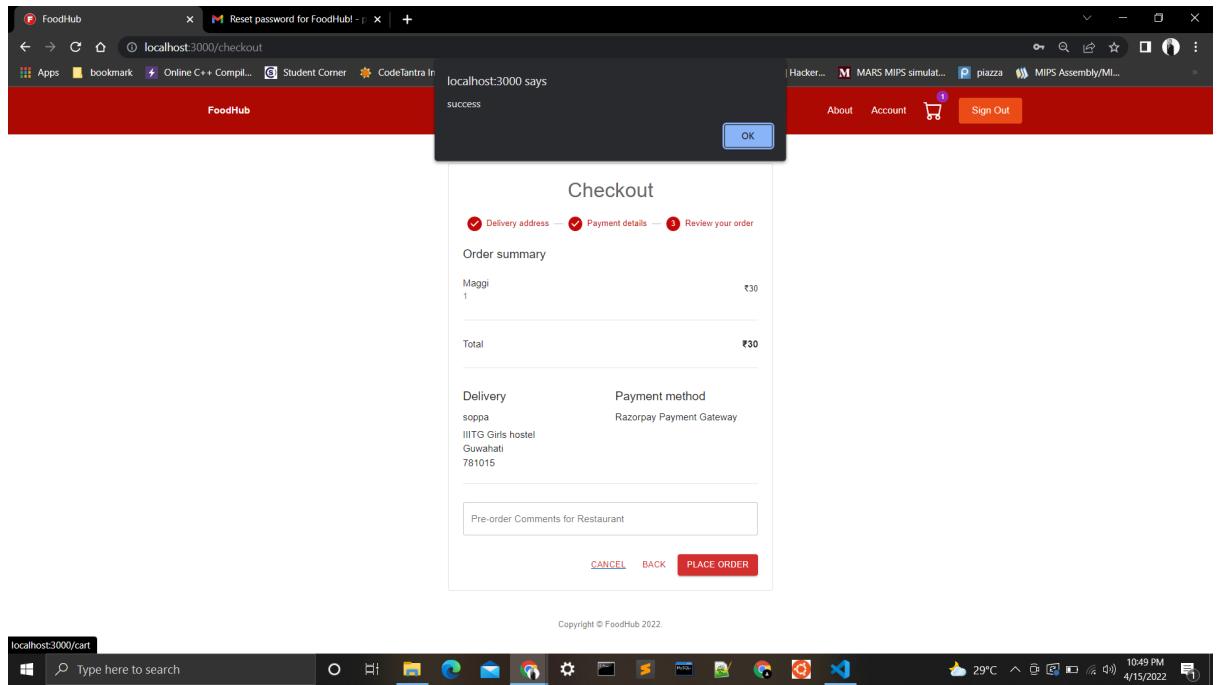
A request will be sent to the given account and should accept it for the transaction.



Once the request is accepted, payment will be done.

Expected o/p: Success

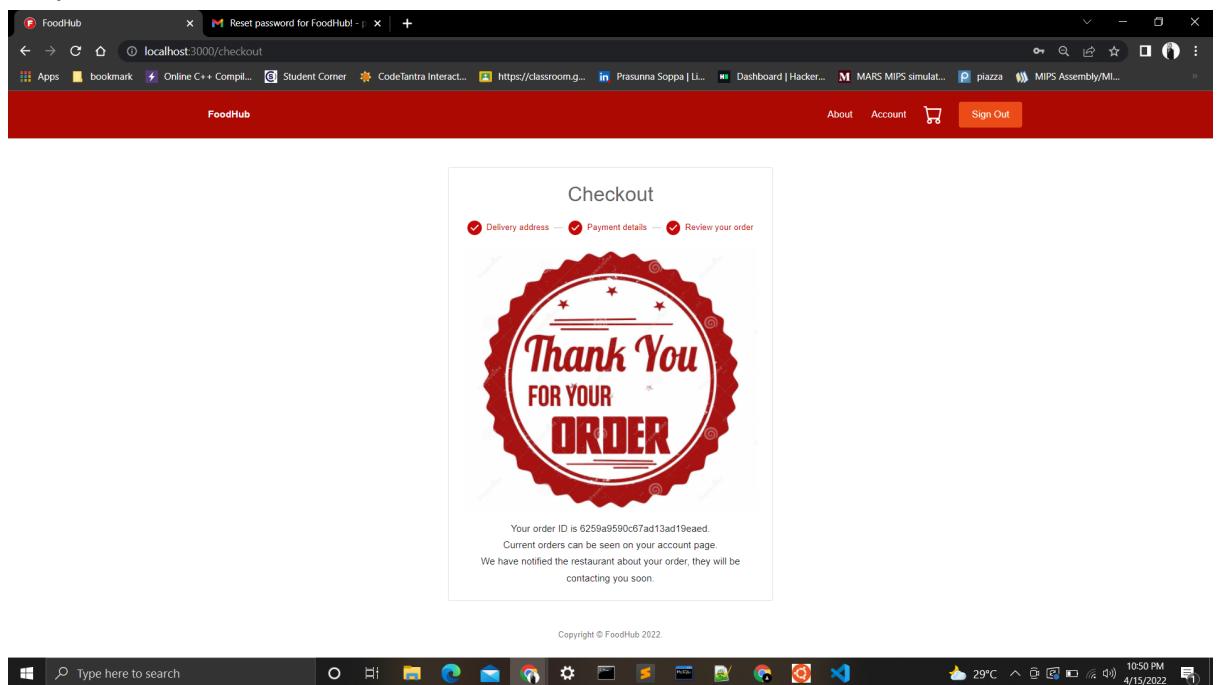
Output:



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 delete 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. On the left, there is a profile picture of a restaurant named 'Nescafe' with a night scene of a cliffside restaurant. On the right, there are two main sections: 'Edit Profile' and 'Menu'. The 'Edit Profile' section contains fields for Name (Nescafe), Contact (9898781230), and Email (nescafe@gmail.com). The 'Address' field is filled with 'Bongora, IIITG'. A red 'UPDATE PROFILE' button is at the bottom. The 'Menu' section lists food items with columns for Name, Price (₹), and Status. The items are: Maggi (₹30, Available), Veg Burger (₹40, Available), Chilli Paneer (₹100, Available), and Masala Dosa (₹70, Not Available). A red 'SAVE' button is located at the bottom left of the 'Update Menu' form.

### Before(from client side):

The screenshot shows the FoodHub application interface from the client's perspective. It displays a menu with three items: Maggi (₹30), Veg Burger (₹40), and Chilli Paneer (₹100). Each item is represented by a cartoon chef holding a tray. Below each item, there is a quantity selector (minus, zero, plus) and a red 'Add ₹0' button. The Windows taskbar at the bottom shows various open applications like File Explorer, Mail, and browser tabs.



After adding the dish:

The screenshot shows a web browser window titled "FoodHub" with the URL "localhost:3000/menu/6247f5bfd2498fdc09af84a3". The page has a red header bar with the "FoodHub" logo and navigation links for "About", "Account", and "Sign Out". Below the header, there is a section titled "FoodHub" featuring four items from the menu:

- Maggi** - ₹30
- Veg Burger** - ₹40
- Chilli Paneer** - ₹100
- Veg Fried Rice** - ₹75

Each item is displayed in a card with a chef illustration holding a tray. Below each card is a quantity selector with buttons for "-", "0", and "+", and a red "Add ₹0" button.

