



LOVELY
PROFESSIONAL
UNIVERSITY

Advanced Web Development

(The Project is based on Node.Js, Express And MongoDB.)

Final Report

Topic:- Food Ordering Application

Submitted To :-

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Introduction

As an asynchronous event-driven JavaScript runtime Environment, In 2009, Ryan Dahl designed Node.js to build scalable network applications. Upon each connection, the callback is fired, but if there is no work to be done, Node.js will sleep. Thread-based networking is relatively inefficient and very difficult to use. Furthermore, users of Node.js are free from worries of dead-locking the process, since there are no locks. Almost no function in Node.js directly performs I/O, so the process never blocks except when the I/O is performed using synchronous methods of Node.js standard library. Because nothing blocks, scalable systems are very reasonable to develop in Node.js. HTTP is a first-class citizen in Node.js, designed with streaming and low latency in mind. This makes Node.js well suited for the foundation of a web library or framework. Node.js being designed without threads doesn't mean you can't take advantage of multiple cores in your environment.

Handlebars is a templating engine similar to the ejs module in node.js, but more powerful and simple to use. It ensures minimum templating and is a logicless engine that keeps the view and the code separated. Handlebars templates look like regular text with embedded Handlebars expressions.

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications. It is light-weight web application framework to help organize your web application into an MVC architecture on the server side.

MongoDB's document model is simple for developers to learn and use, while still providing all the capabilities needed to meet the most complex requirements at any scale. It is a NoSQL which is used as an alternative to traditional relational databases. NoSQL databases are quite useful for working with large sets of distributed data. MongoDB is a tool that can manage document-oriented information, store or retrieve information.

Introduction To Project

(User Management System)

Food Ordering Application is used to manage all the activity related to online ordering of food and its niche methodologies. In this Application, I have provided all kind of module and functionality simultaneously to make interactive yet responsive website at with the use of Node.Js, Express, MongoDB and Handlebars. I am also using stripe key for payment gateway. To make a full-fledged website having both front-end and back-end put together to cater user request. The website will have registration page, login page, home page, profile page and various other page like checkout and payment page to perform all action as per user needs. All of it with proper validation/authentication and being connected to the database using MongoDB.

Objectives

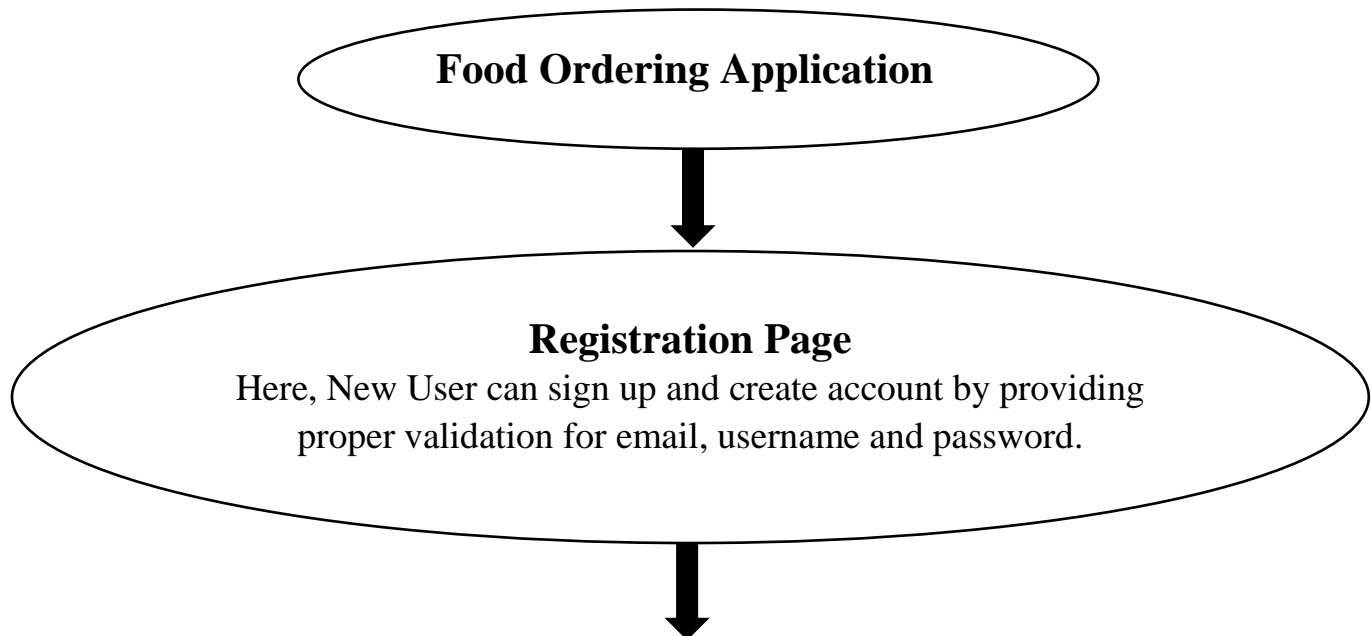
The objective of Food Ordering Application is to innovate a place for online food ordering at ease. The main purpose is to shape an application which is unique and meets the user constraints. The innovation and technologies will amplify the user frequency. This will add intensity and would understand tenacity to my application. The modularity and functionality will have easier ways to navigate and make the user feel insightful.

Theory

Food Ordering Application is going to have registration page where new user can sign up and create account by providing proper validation for email, username and password. After this, User can redirected to Log In Page, Where he provides same credentials which he had used during registration which Email ID and Password which will be matched from MongoDB database. Once he has performed log in, He will be taken to home page where User name is displayed with various modules like profile page, add to cart, and payment page to order a food item. In the payment page, I am using Payment Gateway API having a stripe key to keep track on payment once the food item is ordered and update the order details on Profile Page. Therefore, User can explore the various modules of the website and perform log out any time during the entire session.

Url :- <http://localhost:8000/>

Modules



Login Page

In this, User can redirected to Log In Page, Where he provides same credentials which he had used during registration which username and password which will matched from MongoDB database.



Home Page

Once, He has performed log in, He will be taken to home page where Username is displayed. In this, All the food items are displayed and can be added to cart as per the need.



Profile Page

In this, User Details are displayed. Even, His/Her Order Details are displayed with the proper alignment layout.



Check Out Page

In this, User can check out with his/her ordered food items and can also reduce the number of food items added to the cart.



Payment Page

Here, User can pay for his/her ordered food items through payment gateway for card payment.

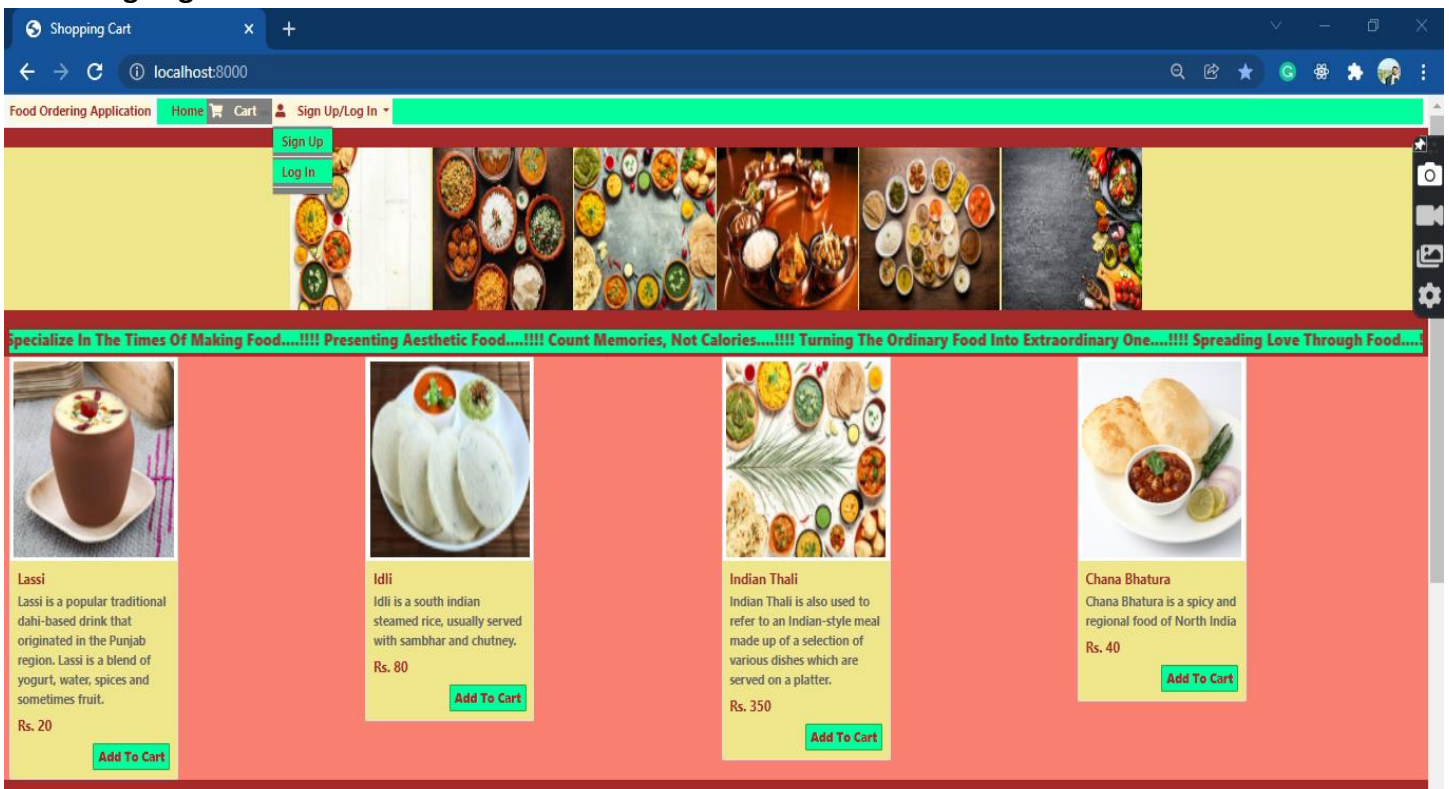



Log Out Page

At last, User can explore with various modules of the application and perform log out any time during the entire session.

Screenshots of the Food Ordering Application :-


Launching Page :-





Chole Kulcha
Chole Kulcha is a small round Indian bread made from flour, milk, and butter, typically stuffed with vegetables.
Rs. 50

Add To Cart




Rajma Chawal
Rajma Chawal is a part of regular diet in India and good for health
Rs. 70

Add To Cart




Chocolate Ice-Cream
Chocolate Ice-Cream is a sweet little ice-cream having a crunchy flavour with it
Rs. 60

Add To Cart




Chicken Burger
Chicken Burger is a Crunchy Spicy Non-Veg Burger at a minimal price
Rs. 20

Add To Cart



Registration Page :-

Shopping Cart
localhost:8000/signup
Food Ordering Application
Home Cart Sign Up/Log In



Create An Account Here

Username
Enter Your Username

Email Address
Enter Your Email ID


Password
Enter Your Password

Confirm Password
Confirm Your Password

Register

Log In Page

Go To FOOD ORDERING APPLICATION Home Page



Shopping Cart

localhost:8000/signup

Food Ordering Application Home Cart Sign Up/Log In

Create An Account Here

Username
Ashwani Kumar

Email Address
ak123@gmail.com

Password

Confirm Password

Register

Log In Page

Go To FOOD ORDERING APPLICATION Home Page

Login Page :-

Shopping Cart

localhost:8000/login

Food Ordering Application Home Cart Sign Up/Log In

You have registered successfully, please login

Log In Page

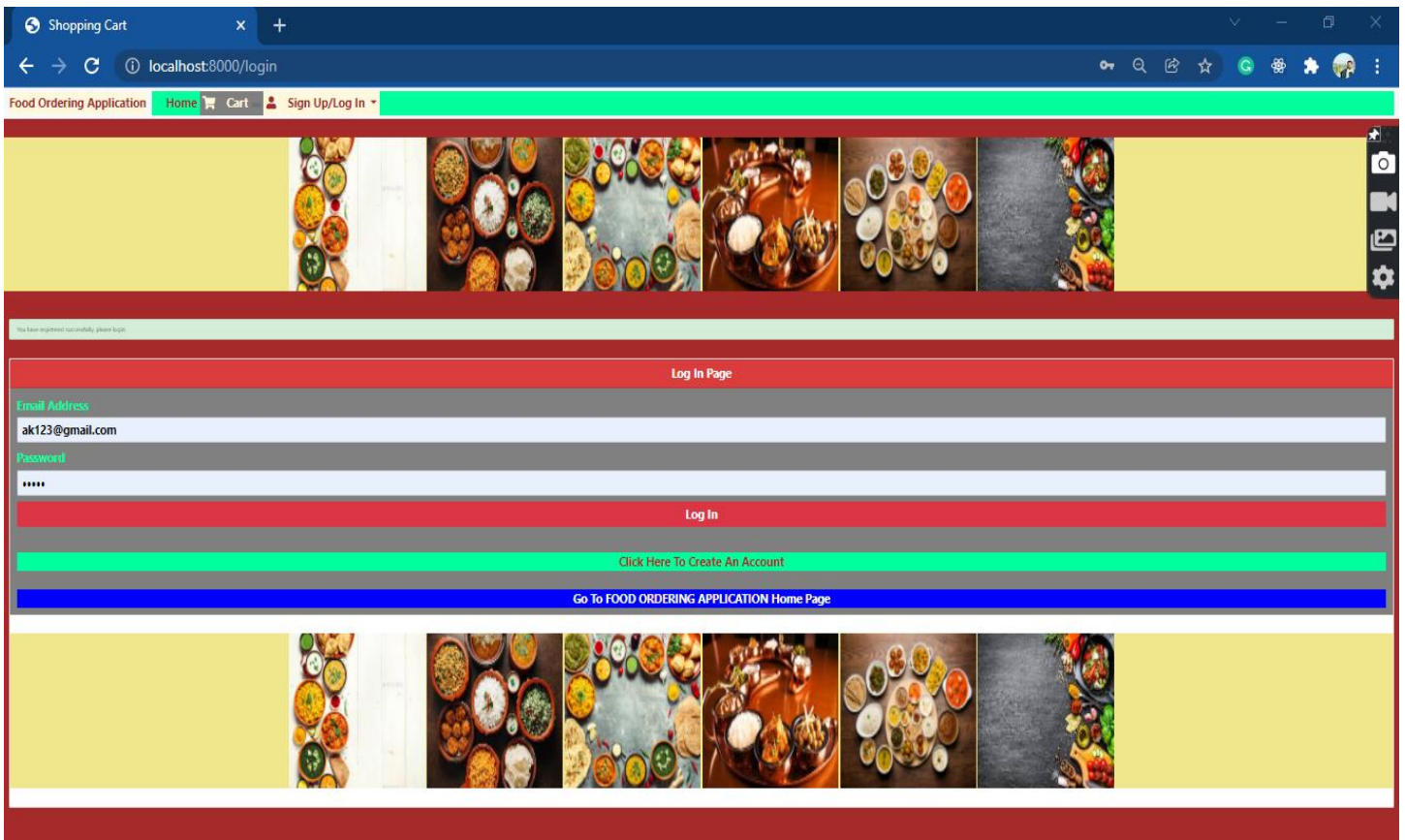
Email Address
Enter Your Email ID

Password
Enter Your Password

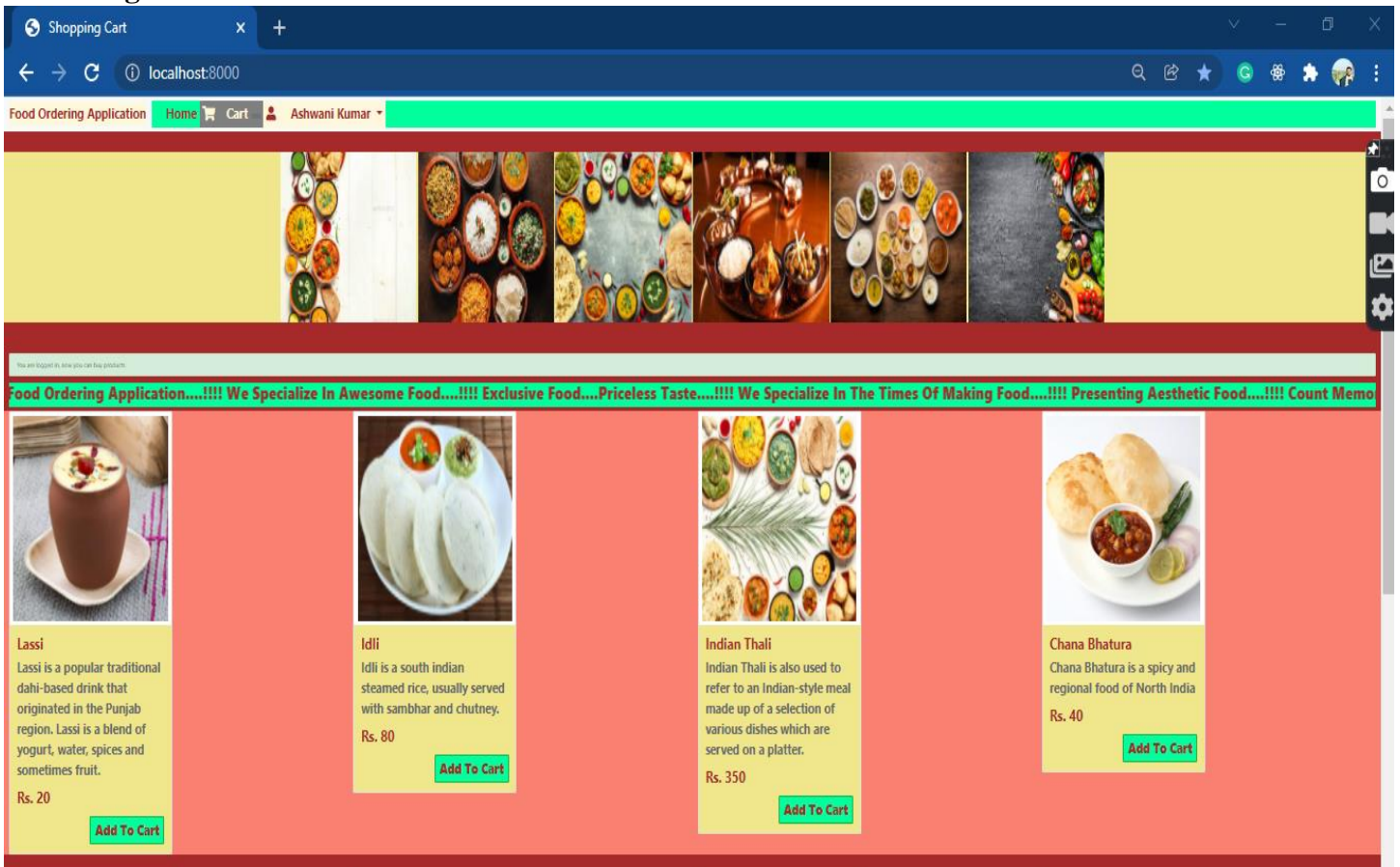
Log In

Click Here To Create An Account

Go To FOOD ORDERING APPLICATION Home Page



Home Page :-



Shopping Cart
localhost:8000
Food Ordering Application
Home Cart 4 Ashwani Kumar

Food Ordering Application.....!!!! We Specialize In Awesome Food.....!!!! Exclusive Food....Priceless Taste.....!!!! We Specialize In The Times Of Making Food.....!!!! Presenting Aesthetic Food.....!!!! Count Memo

Lassi
Lassi is a popular traditional dahi-based drink that originated in the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.
Rs. 20
[Add To Cart](#)

Idli
Idli is a south indian steamed rice, usually served with sambhar and chutney.
Rs. 80
[Add To Cart](#)

Indian Thali
Indian Thali is also used to refer to an Indian-style meal made up of a selection of various dishes which are served on a platter.
Rs. 350
[Add To Cart](#)

Chana Bhatura
Chana Bhatura is a spicy and regional food of North India
Rs. 40
[Add To Cart](#)

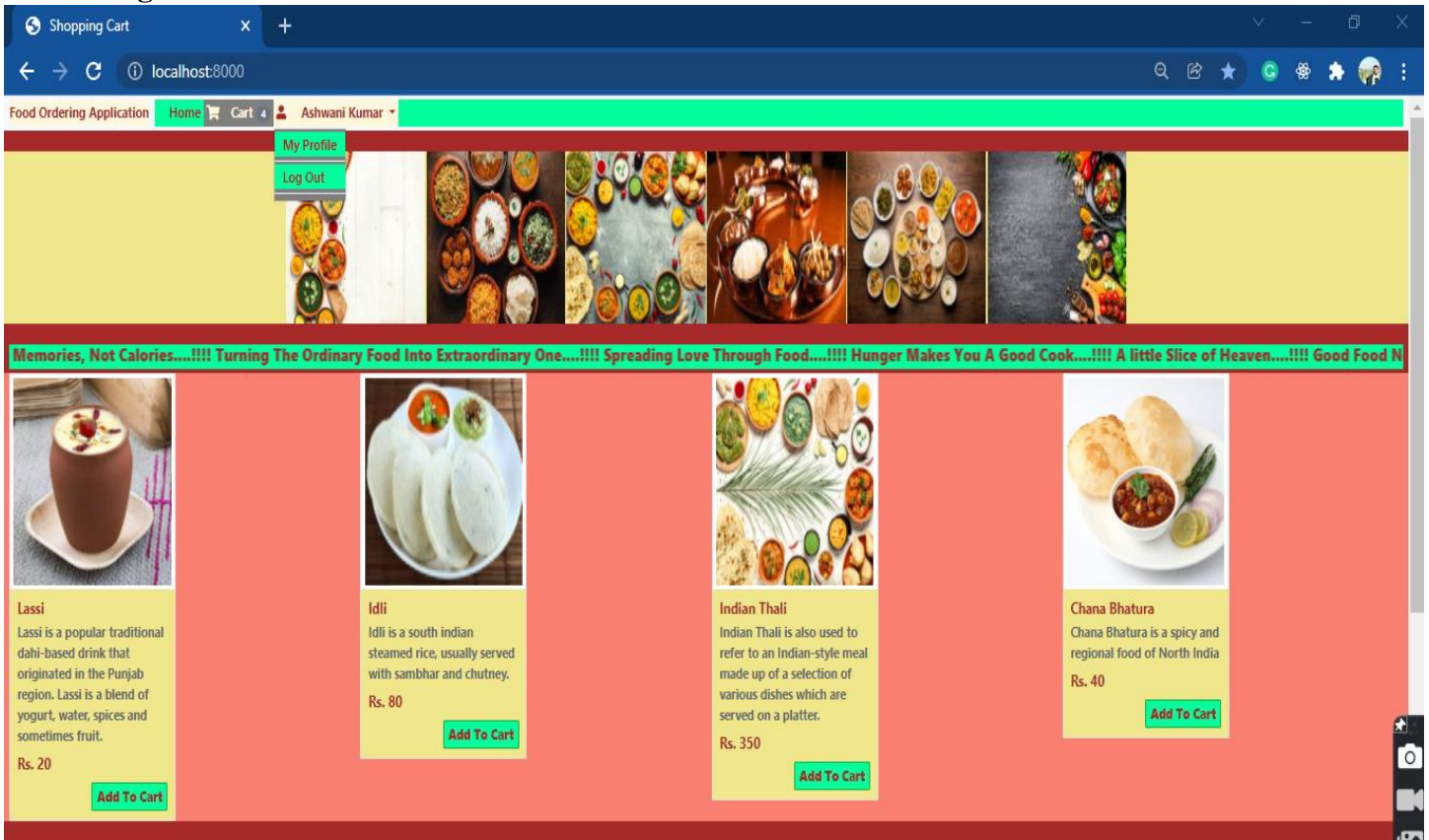
Chole Kulcha
Chole Kulcha is a small round Indian bread made from flour, milk, and butter, typically stuffed with vegetables.
Rs. 50
[Add To Cart](#)

Rajma Chawal
Rajma Chawal is a part of regular diet in India and good for health
Rs. 70
[Add To Cart](#)

Chocolate Ice-Cream
Chocolate Ice-Cream is a sweet little ice-cream having a crunchy flavour with it
Rs. 60
[Add To Cart](#)

Chicken Burger
Chicken Burger is a Crunchy Spicy Non-Veg Burger at a minimal price
Rs. 20
[Add To Cart](#)


Profile Page:-




Shopping Cart | localhost:8000 | Food Ordering Application | Home | Cart 4 | Ashwani Kumar

My Profile | Log Out


Memories, Not Calories.....!!!! Turning The Ordinary Food Into Extraordinary One.....!!!! Spreading Love Through Food.....!!!! Hunger Makes You A Good Cook.....!!!! A little Slice of Heaven.....!!!! Good Food N




Lassi
Lassi is a popular traditional dahi-based drink that originated in the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.
Rs. 20
[Add To Cart](#)



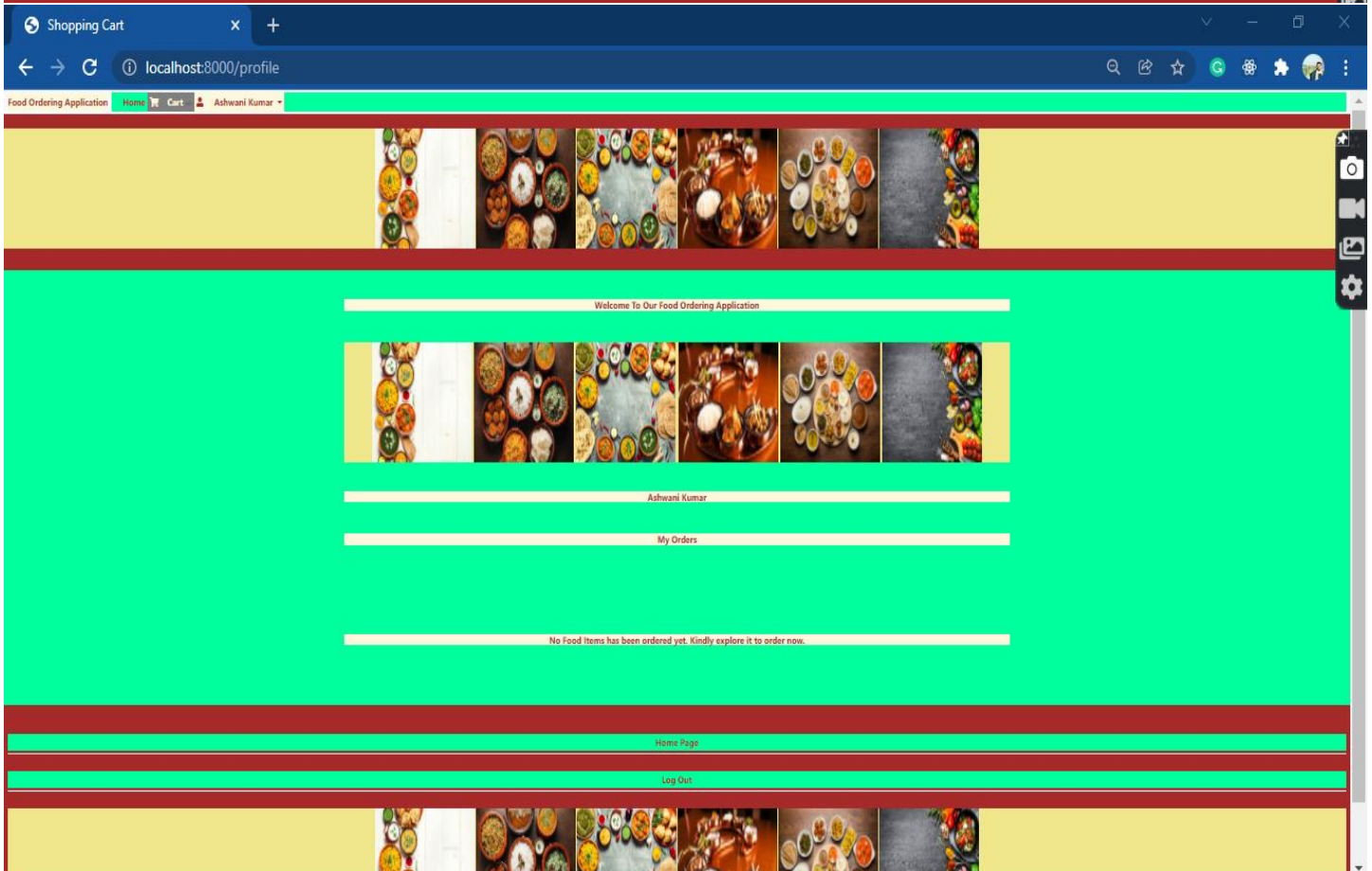
Idli
Idli is a south indian steamed rice, usually served with sambhar and chutney.
Rs. 80
[Add To Cart](#)



Indian Thali
Indian Thali is also used to refer to an Indian-style meal made up of a selection of various dishes which are served on a platter.
Rs. 350
[Add To Cart](#)



Chana Bhatura
Chana Bhatura is a spicy and regional food of North India
Rs. 40
[Add To Cart](#)



Shopping Cart | localhost:8000/profile | Food Ordering Application | Home | Cart 4 | Ashwani Kumar

Welcome To Our Food Ordering Application

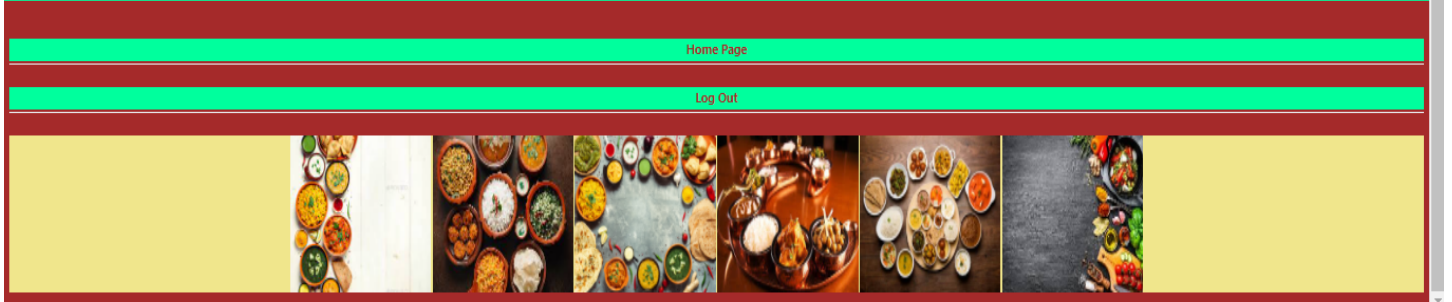
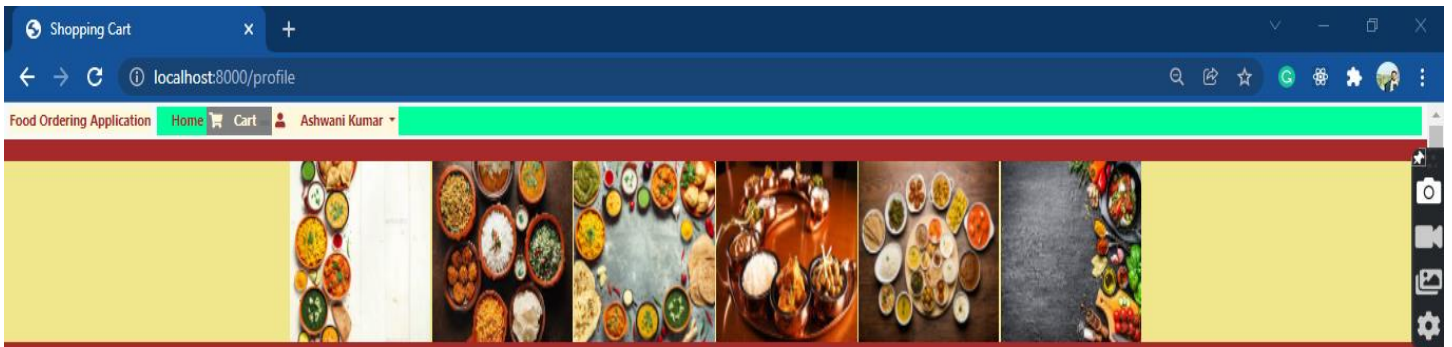
Ashwani Kumar

My Orders

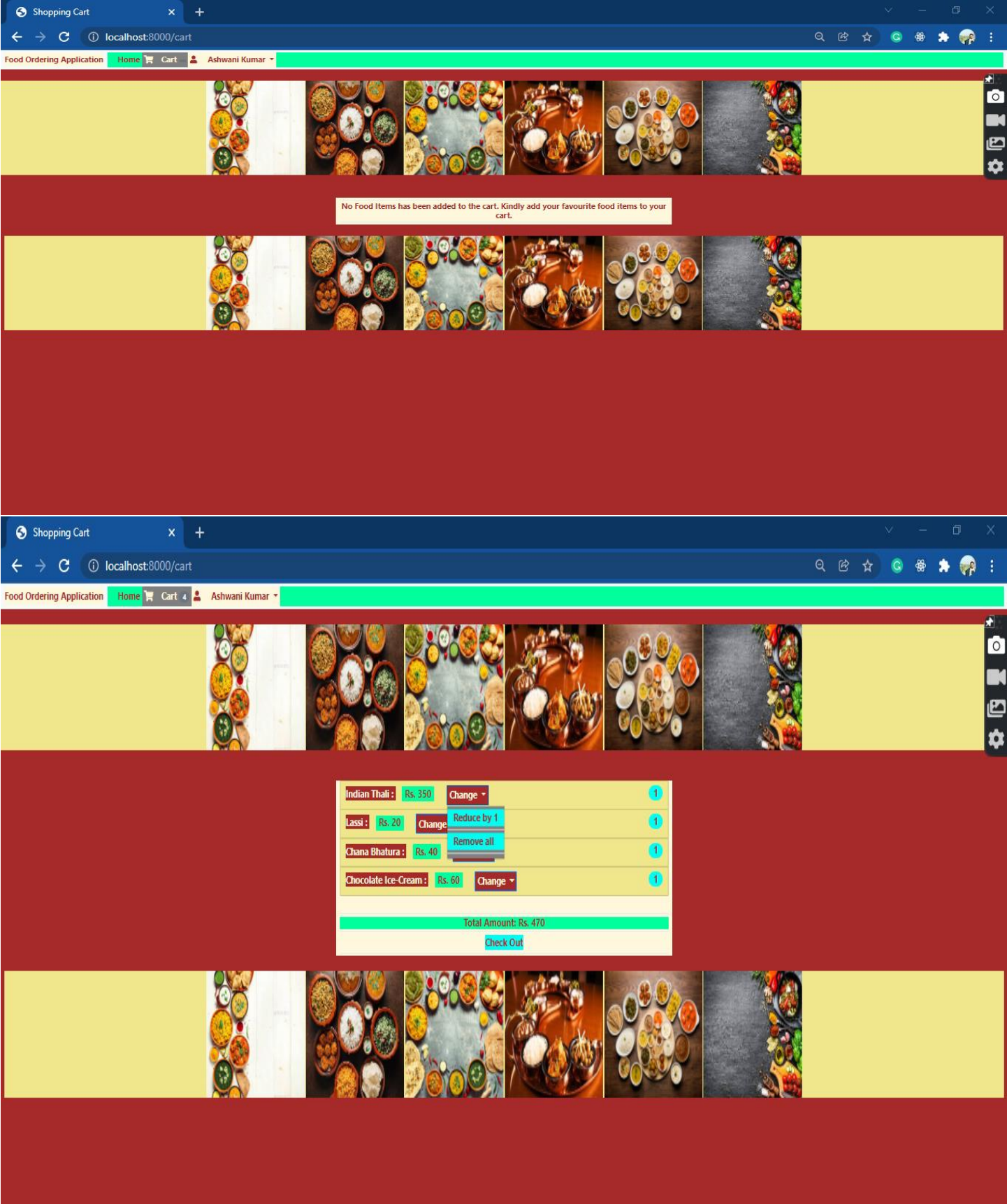
No Food Items has been ordered yet. Kindly explore it to order now.

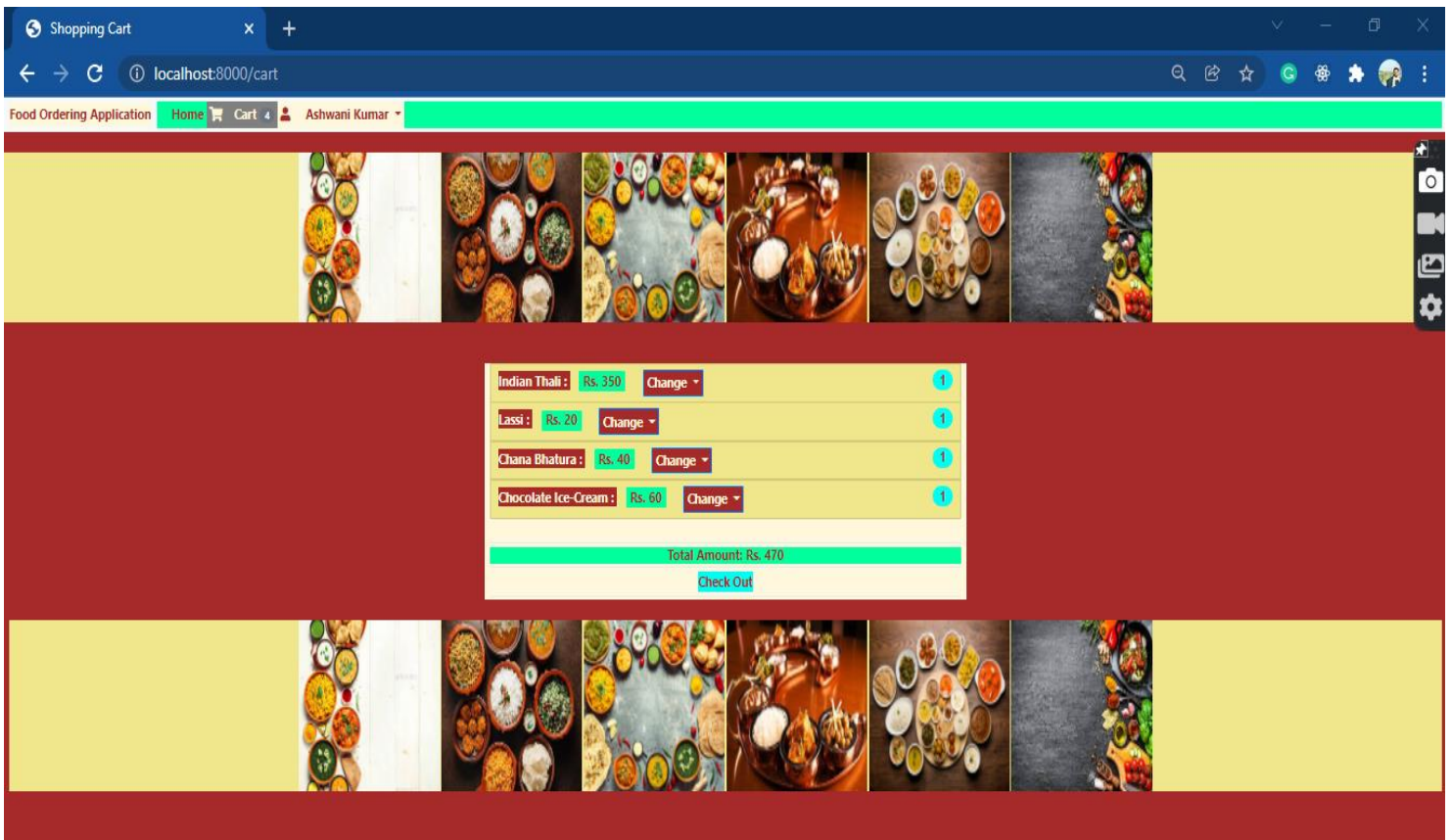
Home Page

Log Out

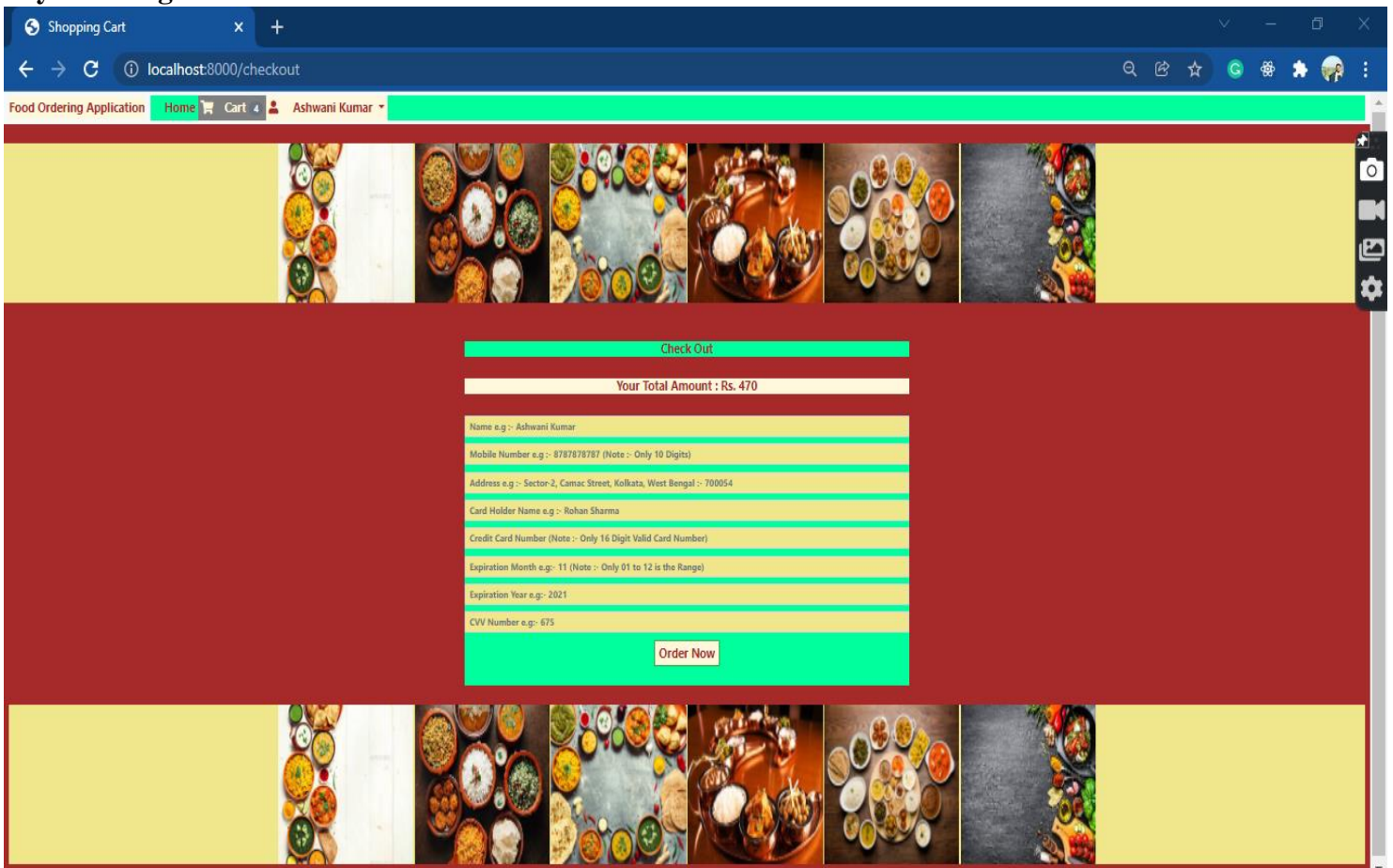


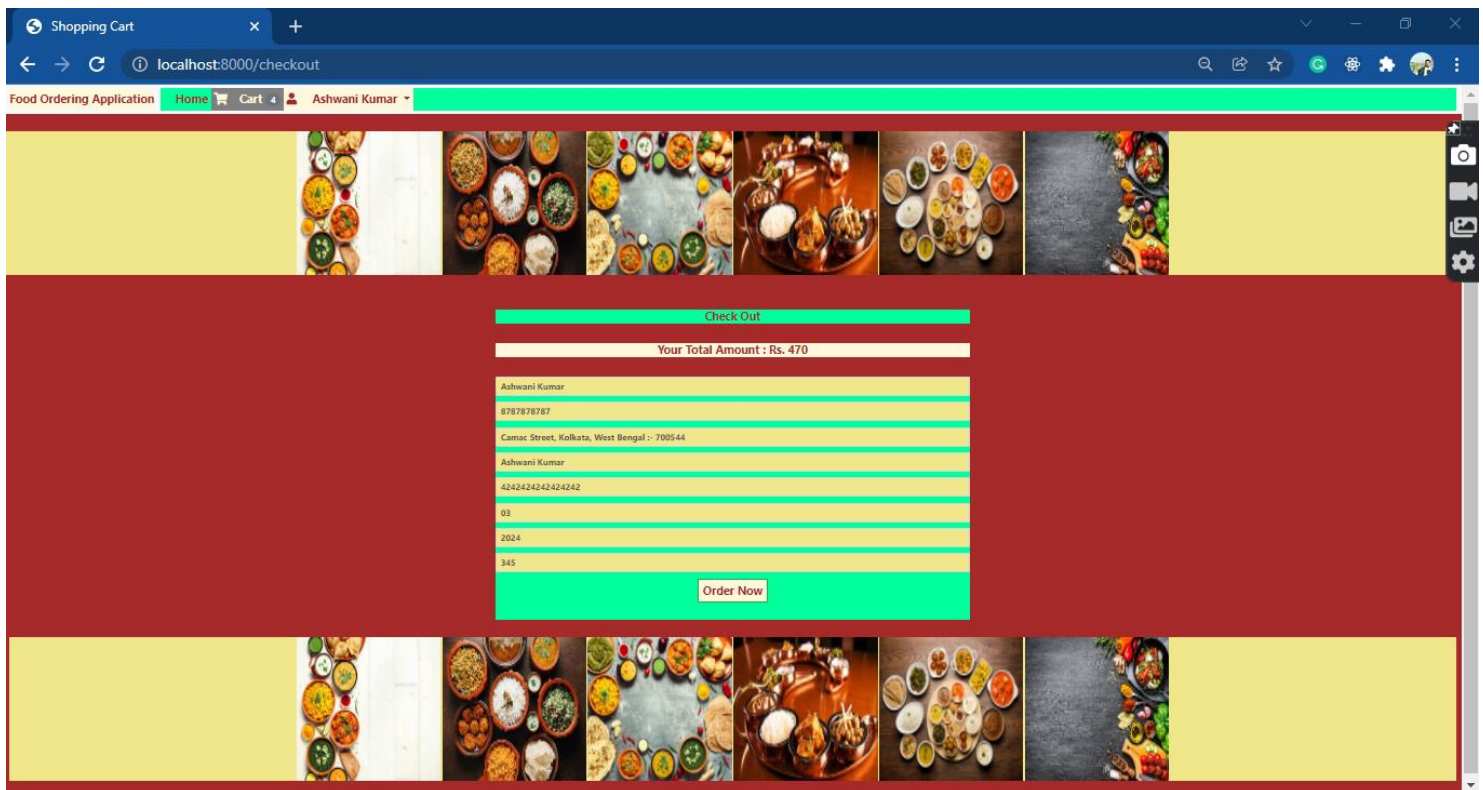
Check Out Page:-





Payment Page :-





Database for User Registration, Sessions, Products, And Orders Using MongoDB :-

>show dbs

admin 0.000GB

config 0.000GB

customers 0.000GB

local 0.000GB

login_database 0.000GB

node-login 0.000GB

shopping-cart 0.000GB

test 0.000GB

> use shopping-cart

switched to db shopping-cart

> show collections

orders

products

sessions

users

```

> db.users.find().pretty()
{
  "_id" : ObjectId("619401e836fd4d0cf4d1d0c6"),
  "cart" : null,
  "username" : "ak1101",
  "email" : "ak@gmail.com",
  "password" : "$2a$10$cl1au9rp6Co8dRDzmt8AouBNkYzvjhDuuIZaP4cv6c1/EHZiu.cCK",
  "__v" : 0
}
{
  "_id" : ObjectId("619fc6049bde7429408aa269"),
  "cart" : null,
  "username" : "Ashwani Kumar",
  "email" : "ak123@gmail.com",
  "password" :
"$2a$10$09nZBCbCpE/FqkHEHLRTMOrDzl8wP3mQMX20fbIWQ0aFmAKvjF/k.",
  "__v" : 0
}
{
  "_id" : ObjectId("619fc9519bde7429408aa26b"),
  "cart" : null,
  "username" : "Ashwani Kumar",
  "email" : "ak12345@gmail.com",
  "password" : "$2a$10$qSAXqKgGeJA7J3S/s1db1uaPkCApSPWGNLU4sXUd6M3lZZbXcdA3e",
  "__v" : 0
}
> db.sessions.find().pretty()
{
  "_id" : "hdte5FlinvzP0YgDOpGGp6Umkx9PC_Do",
  "expires" : ISODate("2021-11-26T05:35:24.482Z"),

```

```
"session" : "{ \"cookie\": { \"originalMaxAge\": 43200000, \"expires\": \"2021-11-26T05:35:21.696Z\", \"httpOnly\": true, \"path\": \"/\", \"flash\": {}, \"passport\": { \"user\": \"619fc9519bde7429408aa26b\" }, \"cart\": null } }
```

```
}
```

```
> db.products.find().pretty()
```

```
{
```

```
  "_id" : ObjectId("619e720a9d01464c24273918"),
```

```
  "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
```

```
  "title" : "Lassi",
```

```
  "description" : "Lassi is a popular traditional dahi-based drink that originated in the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
```

```
  "price" : 20,
```

```
  "__v" : 0
```

```
}
```

```
{
```

```
  "_id" : ObjectId("619e720a9d01464c24273919"),
```

```
  "imagePath" : "https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
```

```
  "title" : "Idli",
```

```
  "description" : "Idli is a south indian steamed rice, usually served with sambhar and chutney.",
```

```
  "price" : 80,
```

```
  "__v" : 0
```

```
}
```

```
{
```

```
  "_id" : ObjectId("619e720a9d01464c24273917"),
```

```
  "imagePath" :
```

```
  "https://us.123rf.com/450wm/fascinadora/fascinadora1906/fascinadora190600114/125096121-indian-cuisine-dishes-tikka-masala-dal-paneer-samosa-chapati-chutney-spices-indian-food-on-white-woo.jpg?ver=6",
```

```
  "title" : "Indian Thali",
```

```
  "description" : "Indian Thali is also used to refer to an Indian-style meal made up of a selection of various dishes which are served on a platter.",
```

```
  "price" : 350,
```

```

    "__v" : 0
  }
  {
    "_id" : ObjectId("619e720a9d01464c2427391a"),
    "imagePath" : "https://bigoven-res.cloudinary.com/image/upload/t_recipe-1280/chana-bhatura-0ee3ab7d0f229c6b0bd89cdc.jpg",
    "title" : "Chana Bhatura",
    "description" : "Chana Bhatura is a spicy and regional food of North India",
    "price" : 40,
    "__v" : 0
  }
  {
    "_id" : ObjectId("619e720a9d01464c2427391e"),
    "imagePath" : "https://www.nehascookbook.com/wp-content/uploads/2021/06/Pindi-chole-kulcha-WS.jpg",
    "title" : "Chole Kulcha",
    "description" : "Chole Kulcha is a small round Indian bread made from flour, milk, and butter, typically stuffed with vegetables.",
    "price" : 50,
    "__v" : 0
  }
  {
    "_id" : ObjectId("619e720a9d01464c2427391d"),
    "imagePath" : "http://www.indiamarks.com/wp-content/uploads/Rajma-chawal.jpg",
    "title" : "Rajma Chawal",
    "description" : "Rajma Chawal is a part of regular diet in India and good for health",
    "price" : 70,
    "__v" : 0
  }
  {
    "_id" : ObjectId("619e720a9d01464c2427391b"),

```

```

    "imagePath" :
    "https://lh3.googleusercontent.com/LwFcKCcsq1N_fk34nojMA50kCwbdiLVeGmVgElCrWDAK5Jo3Ve
    ZZ9aBhLG1hB7IVdqeFvAusP4H7huS8tYCMNA=w1280-h1280-c-rj-v1-e365",
    "title" : "Chocolate Ice-Cream",
    "description" : "Chocolate Ice-Cream is a sweet little ice-cream having a crunchy flavour with it",
    "price" : 60,
    "__v" : 0
  }
  {
    "_id" : ObjectId("619e720a9d01464c2427391c"),
    "imagePath" : "https://www.chicken.ca/wp-content/uploads/2020/09/Moist-Chicken-Burgers.jpg",
    "title" : "Chicken Burger",
    "description" : "Chicken Burger is a Crunchy Spicy Non-Veg Burger at a minimal price",
    "price" : 20,
    "__v" : 0
  }
> db.orders.find().pretty()
{
  "_id" : ObjectId("619dfd52d04b4f1a049f3188"),
  "userEmail" : "ak@gmail.com",
  "order" : {
    "items" : {
      "619bf28725c4292b282c80bc" : {
        "item" : {
          "_id" : "619bf28725c4292b282c80bc",
          "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
          "title" : "Lassi",
          "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
          "price" : 20,
          "__v" : 0
        }
      }
    }
  }
}

```

```

    },
    "qty" : 1,
    "price" : 20
  },
  "619bf28725c4292b282c80bd" : {
    "item" : {
      "_id" : ObjectId("619bf28725c4292b282c80bd"),
      "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
      "title" : "Idli",
      "description" : "Idli is a south indian steamed rice, usually served with sambhar
and chutney.",
      "price" : 80,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 80
  }
},
"totalQty" : 2,
"totalPrice" : 100,
"itemsArray" : [
  {
    "item" : {
      "_id" : "619bf28725c4292b282c80bc",
      "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
      "title" : "Lassi",
      "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
      "price" : 20,
      "__v" : 0
    }
  }
]

```



```

    },
    "qty" : 1,
    "price" : 20
  },
  {
    "item" : {
      "_id" : ObjectId("619bf28725c4292b282c80bd"),
      "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
      "title" : "Idli",
      "description" : "Idli is a south indian steamed rice, usually served with sambhar
and chutney.",
      "price" : 80,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 80
  }
]
},
"name" : "Ashwani Kumar",
"address" : "+918787878725,Vidya Singh House, Junedpur, Bithuna, Basantpur",
"paymentId" : "ch_3JzHDQBBIEgdmWRL1dH0xBLN",
"__v" : 0
}
{
  "_id" : ObjectId("619dfe1bd04b4f1a049f3189"),
  "userEmail" : "ak@gmail.com",
  "order" : {
    "items" : {
      "619bf28725c4292b282c80bc" : {

```

```

    "item" : {
      "_id" : "619bf28725c4292b282c80bc",
      "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
      "title" : "Lassi",
      "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
      "price" : 20,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 20
  },
  "619bf28725c4292b282c80bd" : {
    "item" : {
      "_id" : ObjectId("619bf28725c4292b282c80bd"),
      "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
      "title" : "Idli",
      "description" : "Idli is a south indian steamed rice, usually served with sambhar
and chutney.",
      "price" : 80,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 80
  }
},
"totalQty" : 2,
"totalPrice" : 100,
"itemsArray" : [
  {

```

```

    "item" : {
      "_id" : "619bf28725c4292b282c80bc",
      "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
      "title" : "Lassi",
      "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
      "price" : 20,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 20
  },
  {
    "item" : {
      "_id" : ObjectId("619bf28725c4292b282c80bd"),
      "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
      "title" : "Idli",
      "description" : "Idli is a south indian steamed rice, usually served with sambhar
and chutney.",
      "price" : 80,
      "__v" : 0
    },
    "qty" : 1,
    "price" : 80
  }
]
},
"name" : "Ashwani Kumar",
"address" : "+918444448325,Vidya Singh House, Junedpur, Bithuna, Basantpur",
"paymentId" : "ch_3JzHGfBBIEgdmWRL0uVZstzQ",

```

```

    "__v" : 0
  }
  {
    "_id" : ObjectId("619e0093d04b4f1a049f318a"),
    "userEmail" : "ak@gmail.com",
    "order" : {
      "items" : {
        "619bf28725c4292b282c80bc" : {
          "item" : {
            "_id" : "619bf28725c4292b282c80bc",
            "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
            "title" : "Lassi",
            "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
            "price" : 20,
            "__v" : 0
          },
          "qty" : 1,
          "price" : 20
        },
        "619bf28725c4292b282c80bd" : {
          "item" : {
            "_id" : ObjectId("619bf28725c4292b282c80bd"),
            "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
            "title" : "Idli",
            "description" : "Idli is a south indian steamed rice, usually served with sambhar
and chutney.",
            "price" : 80,
            "__v" : 0
          },
          "qty" : 1,
          "price" : 80
        }
      }
    }
  }
}

```

```

        "qty" : 1,
        "price" : 80
    }
},
"totalQty" : 2,
"totalPrice" : 100,
"itemsArray" : [
    {
        "item" : {
            "_id" : "619bf28725c4292b282c80bc",
            "imagePath" : "https://static.toiimg.com/photo/58360232.cms",
            "title" : "Lassi",
            "description" : "Lassi is a popular traditional dahi-based drink that originated in
the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
            "price" : 20,
            "__v" : 0
        },
        "qty" : 1,
        "price" : 20
    },
    {
        "item" : {
            "_id" : ObjectId("619bf28725c4292b282c80bd"),
            "imagePath" :
"https://english.cdn.zeenews.com/sites/default/files/2021/08/08/958524-untitled-design-15.jpg",
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      "description" : "Indian Thali is also used to refer to an Indian-style meal made
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"title" : "Indian Thali",

"description" : "Indian Thali is also used to refer to an Indian-style meal made up of a selection of various dishes which are served on a platter.",

"price" : 350,

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"description" : "Lassi is a popular traditional dahi-based drink that originated in the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",

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the Punjab region. Lassi is a blend of yogurt, water, spices and sometimes fruit.",
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Learning Outcomes :-

- Learnt to build a frond end for an application using Handlebars, And Express.
- Learnt to incorporate Node.JS with MongoDB Database which is back-end to store and fetch data.

- Learnt to align and give proper layout using various types of CSS properties and Bootstrap classes.
- Learnt to validate an action using Node.JS and Express module.
- Learnt to make an interactive and responsive application having unique features as a part of UI/UX.

References :-

- <https://nodejs.org/api/documentation.html>
- <http://stackoverflow.com/>
- <https://www.tutorialspoint.com/nodejs/index.htm>
- <https://www.geeksforgeeks.org/nodejs-tutorials/>
- <https://www.javatpoint.com/nodejs-tutorial>
- <https://www.tutorialspoint.com/expressjs/index.htm>
- <https://www.javatpoint.com/expressjs-tutorial>
- <https://expressjs.com/en/5x/api.html>
- <https://docs.mongodb.com/>
- <https://www.tutorialspoint.com/mongodb/index.htm>
- <https://www.javatpoint.com/mongodb-tutorial>
- <https://www.codecademy.com/learn/build-interactive-websites/modules/templating-with-handlebars>
- <https://handlebarsjs.com/guide/>

Github Link :-

<https://github.com/BeTrueToYourself/FoodOrderingAppUsingNodeJsExpressAndMongoDB>