A Project Report

on

Smart Ordering of food and seat booking in a Restaurant

by

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Abstract

The world is focusing towards simplification of products and their ease of use just for an overall better user-experience. “One fundamental thing which directly relates to a better user experience is a better user-interface”. Hence I thought of simplifying the problems which occur in modern restaurants i.e.

1) Repeatedly calling of waiter.
2) Guessing what a dish looks like after reading its name in the menu.
3) Turning pages to look for the dish going in your head.

Chapter 1

Introduction

This chapter is organized as follows. Section 1.1 contains our motivation to work on this topic, Section 1.2 is about the problem statement, Section 1.3 and 1.4 is about aim of our website and its objectives.

1.1 Motivation

Well, It's my dream to open a chain of restaurants in future. While I always planned how to achieve this goal, this course project paved a way for me to work on a small part of it and I decided to grab this opportunity and to make it work for me.

1.2 Problem Statement

Creating a responsive (i.e. works on all screen sizes) restaurant website for easy seat booking and ordering of food.

1.3 Aim

My aim was to create a simple, user-friendly and a responsive website for a particular restaurant.

1.4 Objective

The major objective of the website was: -

1) Responsive website i.e. which adjust itself according to screen size.
2) Single page application i.e. only components gets rendered, no reloading of a new page.
3) Auto-suggestive search feature.
4) Easy "Menu navigation and Food ordering".
5) Easy payment method which remembers you.
6) A controlled image carousel on home-page.

Chapter 2

Background Study

This section covers the background theory of my work. Section 2.1 is about the existing solution for this and section 2.2 is about all the possible solutions proposed by us and finally the last section i.e. Section 2.3 is about that one key feature of our website that makes it different from other websites.

2.1 Background Theory

I started my work by doing intense brainstorming and wrote all the points which were coming in my minds. Later I did survey on phone calls and wrote down all the actual user needs and requirements for such website so that I can focus on the key points rather than ending up doing something which the user didn't wanted.

2.1 Brainstorming

The points which I got in the brainstorming session are as follows: -

1) Repeated calling of waiter.

2) Difficulty while searching your favorite dish

3) Not having the flexibility to see the payment at the time of order.

4) Not having the flexibility to increase or decrease the food items at the time of order.

2.2 Existing Systems

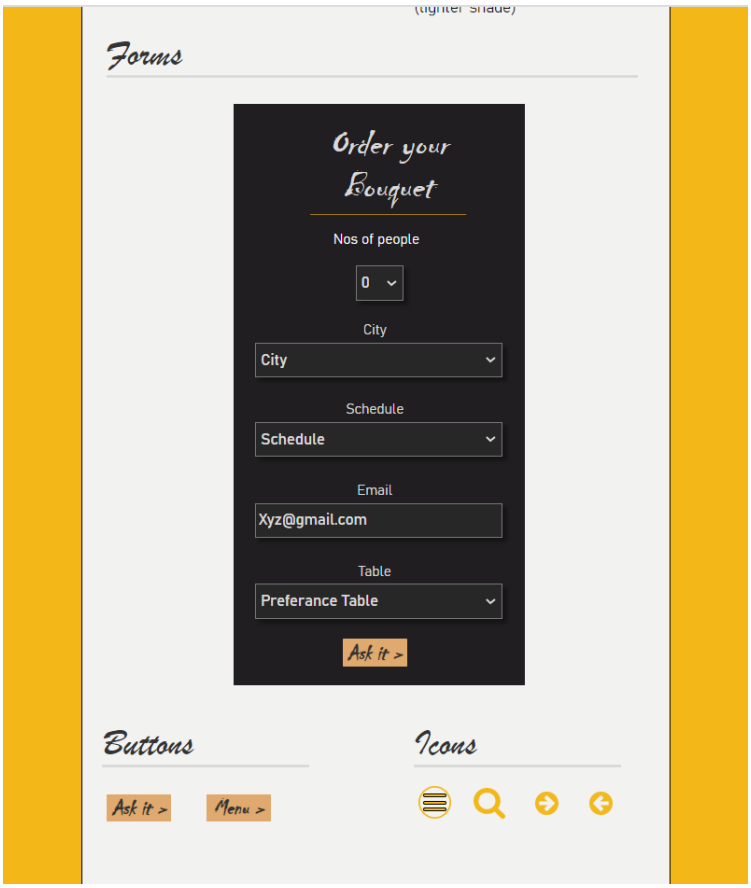
The few systems similar to what we are making exist in the market and they are: -

1) Zomato
2) Swiggy
3) Uber-east

Note: These website focuses on a larger aspect and I decided to work on a single restaurant website and countering the problems which exists in such a system.

2.3 Proposed Solutions (Style guide + Wireframes)

- **Style-guide**



2.4 Unique Selling Point

The things which makes our website different from existing solutions are: -

1) We are making simplified search bar available.
2) We are providing a digital menu.
3) Easy and Secured payment transaction.

Chapter 3

Software Requirement Specification

3.1 Hardware Requirements

The following hardware is used for developing the website: -

3.1.1 Recommended Operating Systems

- Windows: 7 or newer.
- MAC: OS X v10.7 or higher.
- Linux: Ubuntu.

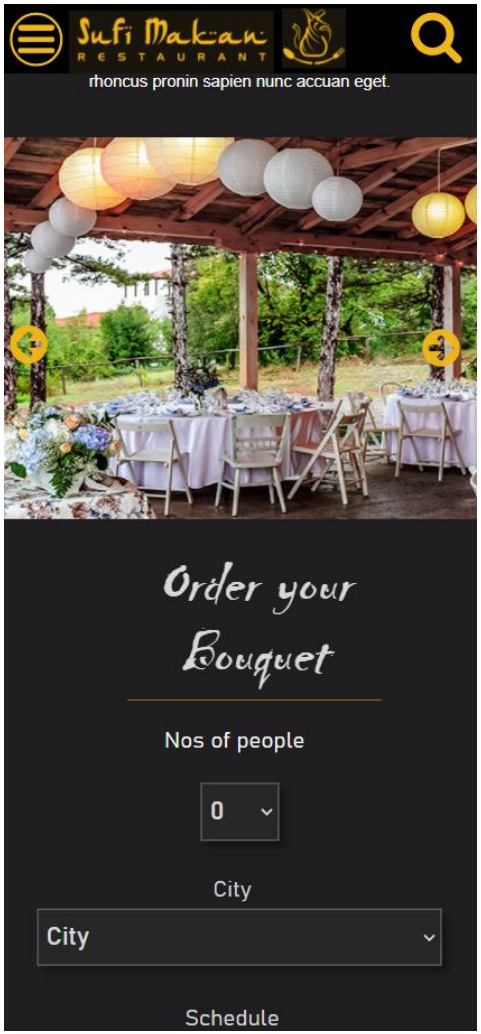
3.1.2 Hardware Requirements

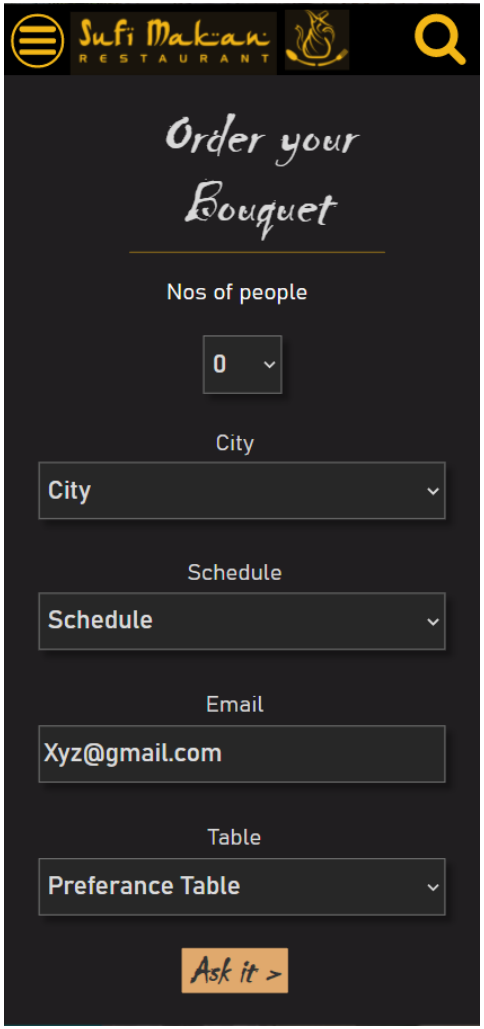
- Processor: Minimum 1 GHz; Recommended 2GHz or more.
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi).
- Hard Drive: Minimum 32 GB; Recommended 64 GB or more.
- Memory (RAM): Minimum 1 GB; Recommended 4 GB or above.
- Sound card w/speakers.
- A camera and microphone.

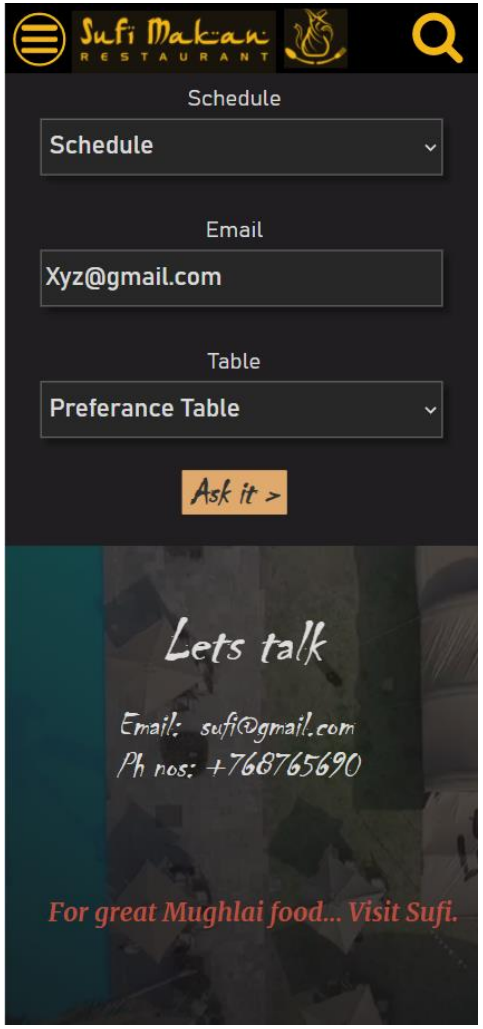
3.2 Software Requirements

- Axure rp-9 (for wire framing).
- Chrome or any web-browser (for displaying website).
- Nodejs (for hosting website on local server).
- Vscode (or any other editor for developing website)
- Adobe illustrator & adobe premiere pro (poster and video making).

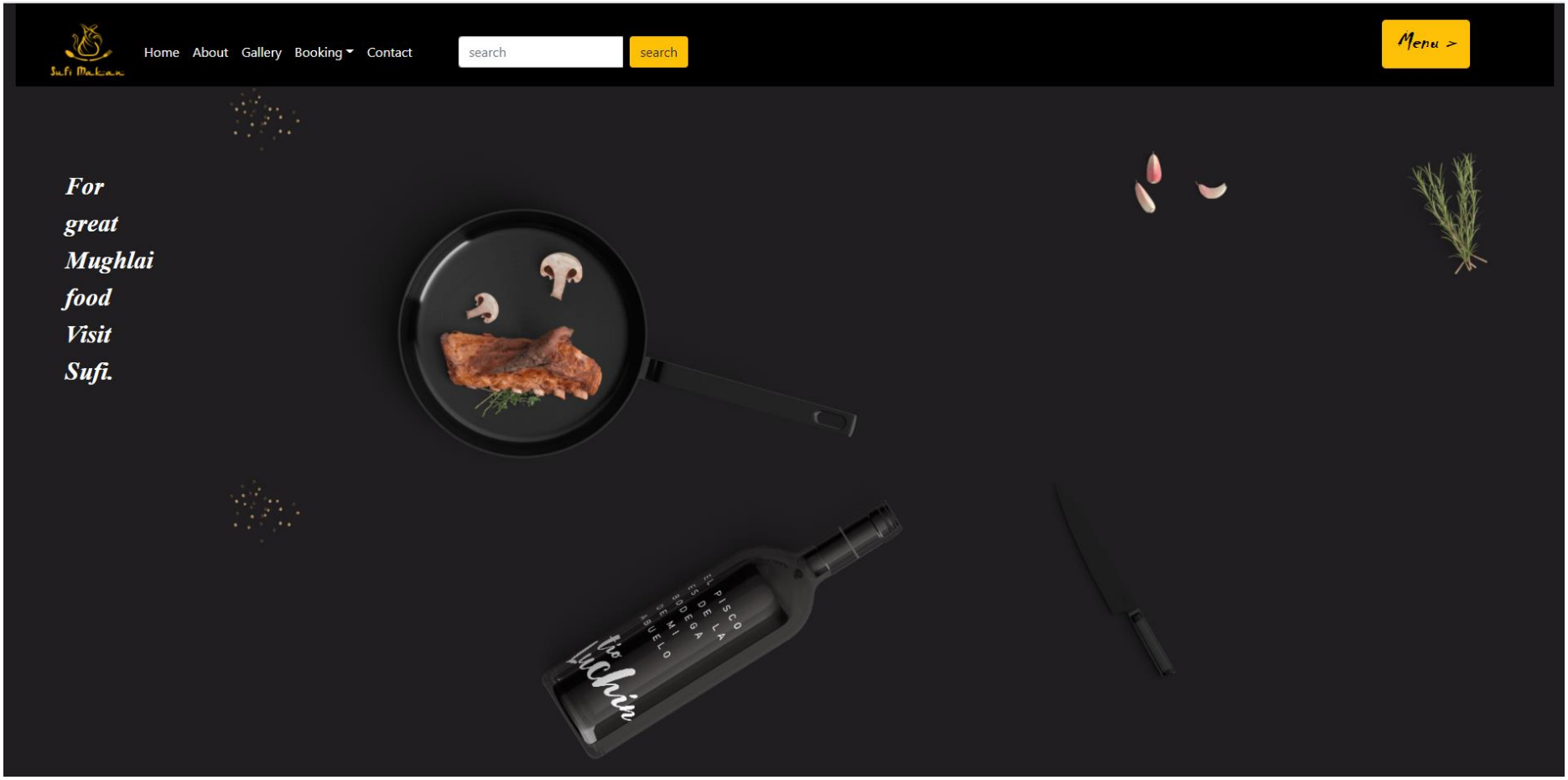
Website wireframe (Mobile-screen)

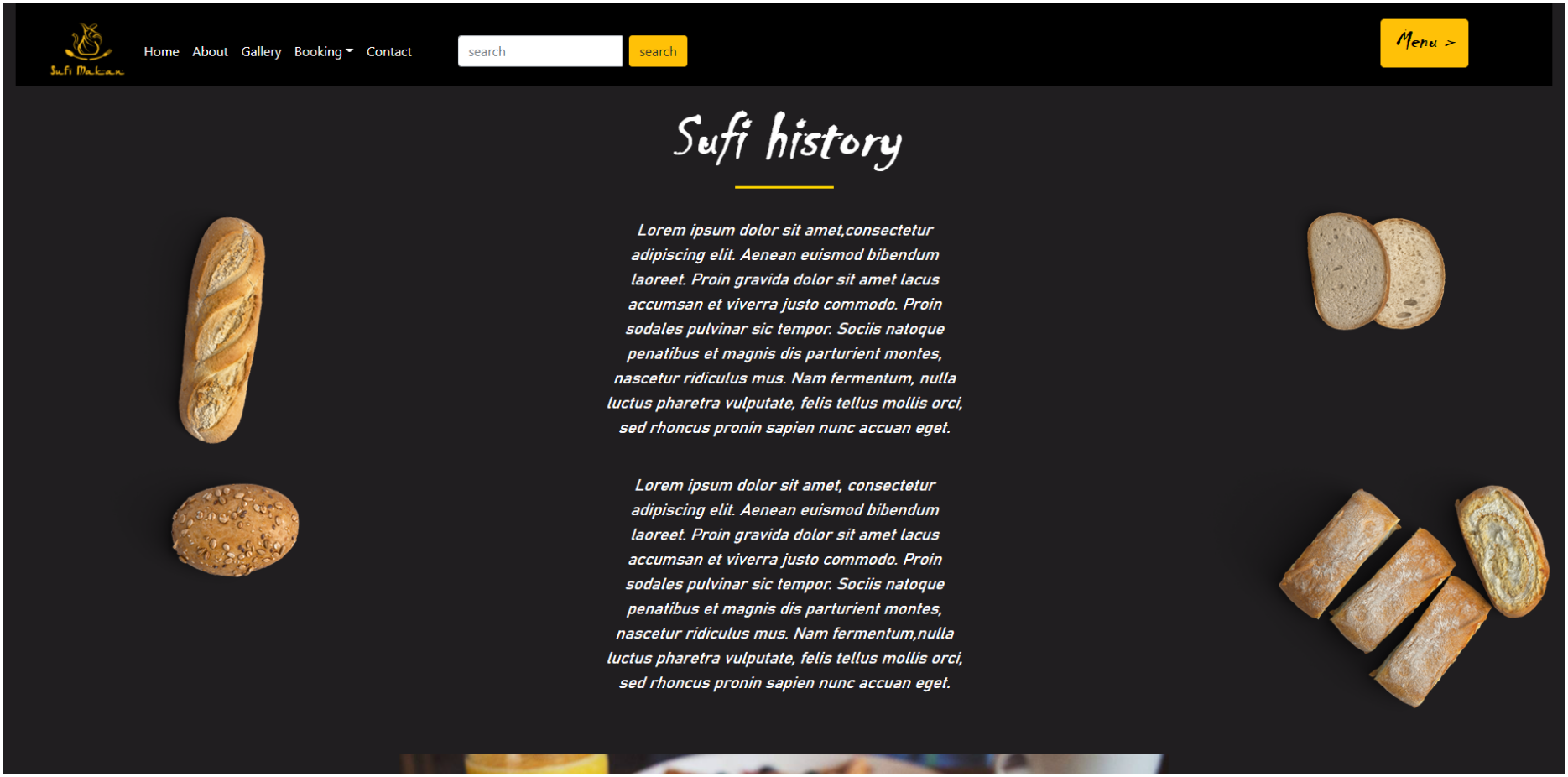






Website Home page

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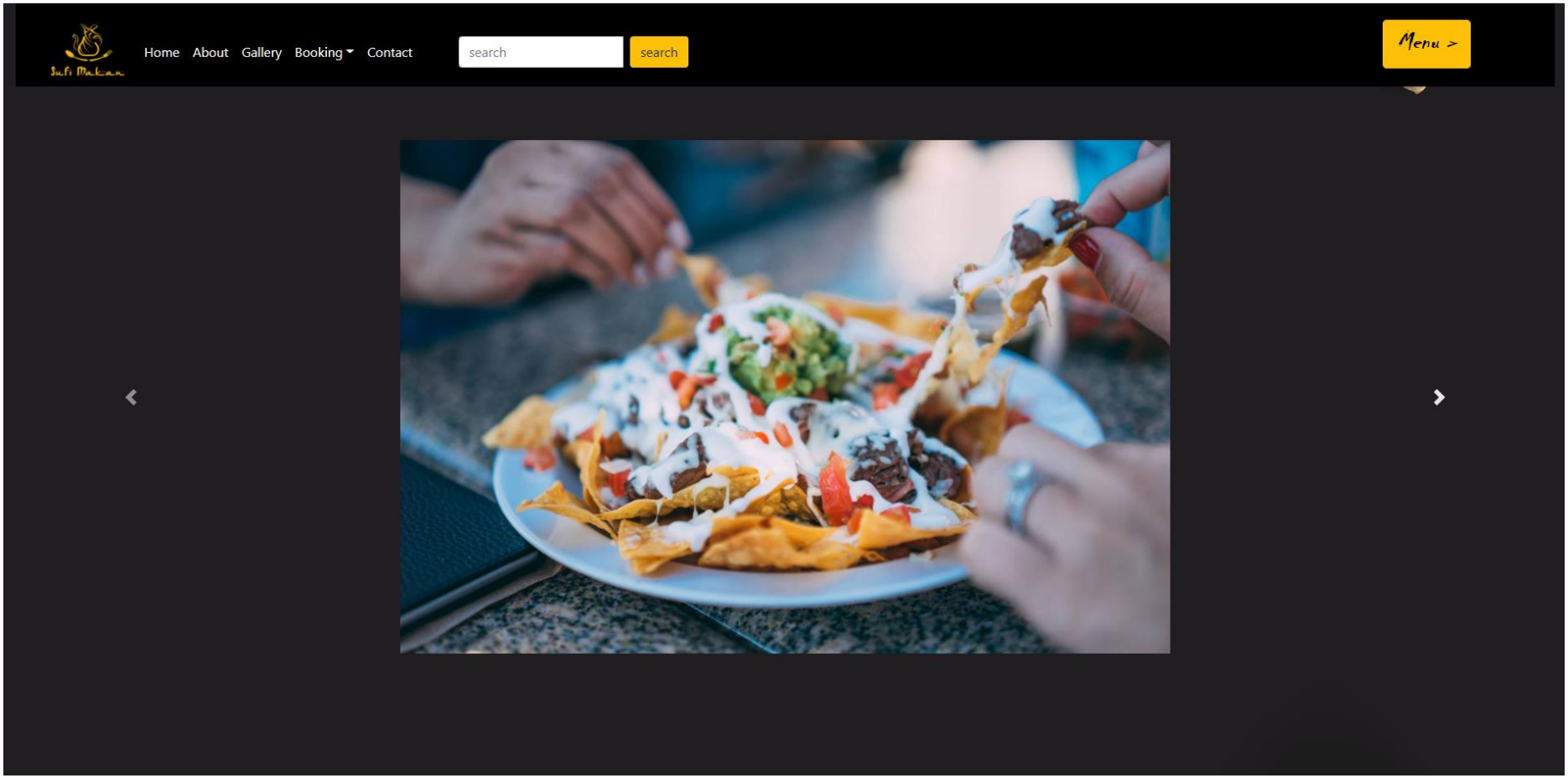
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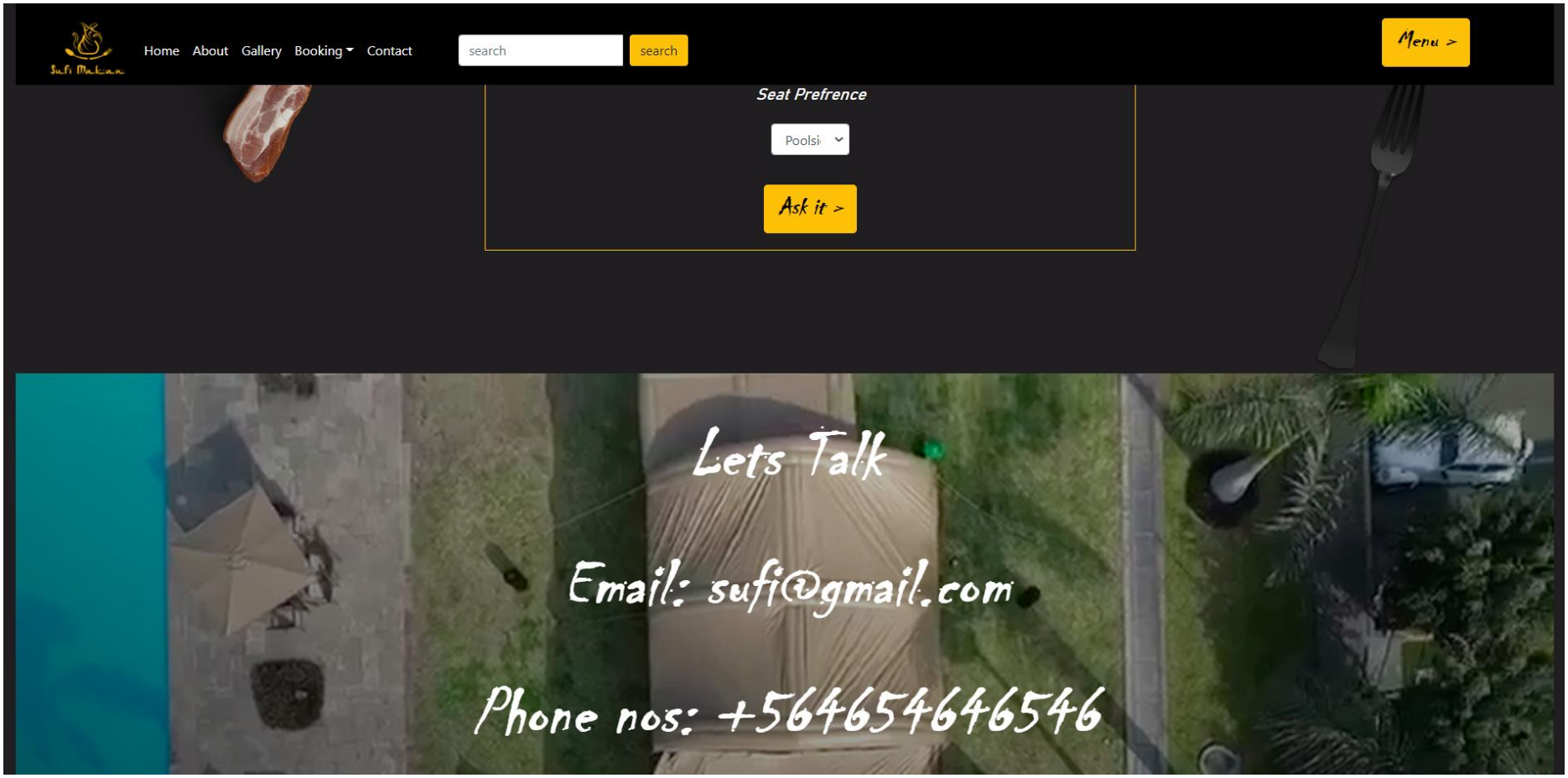
Menu >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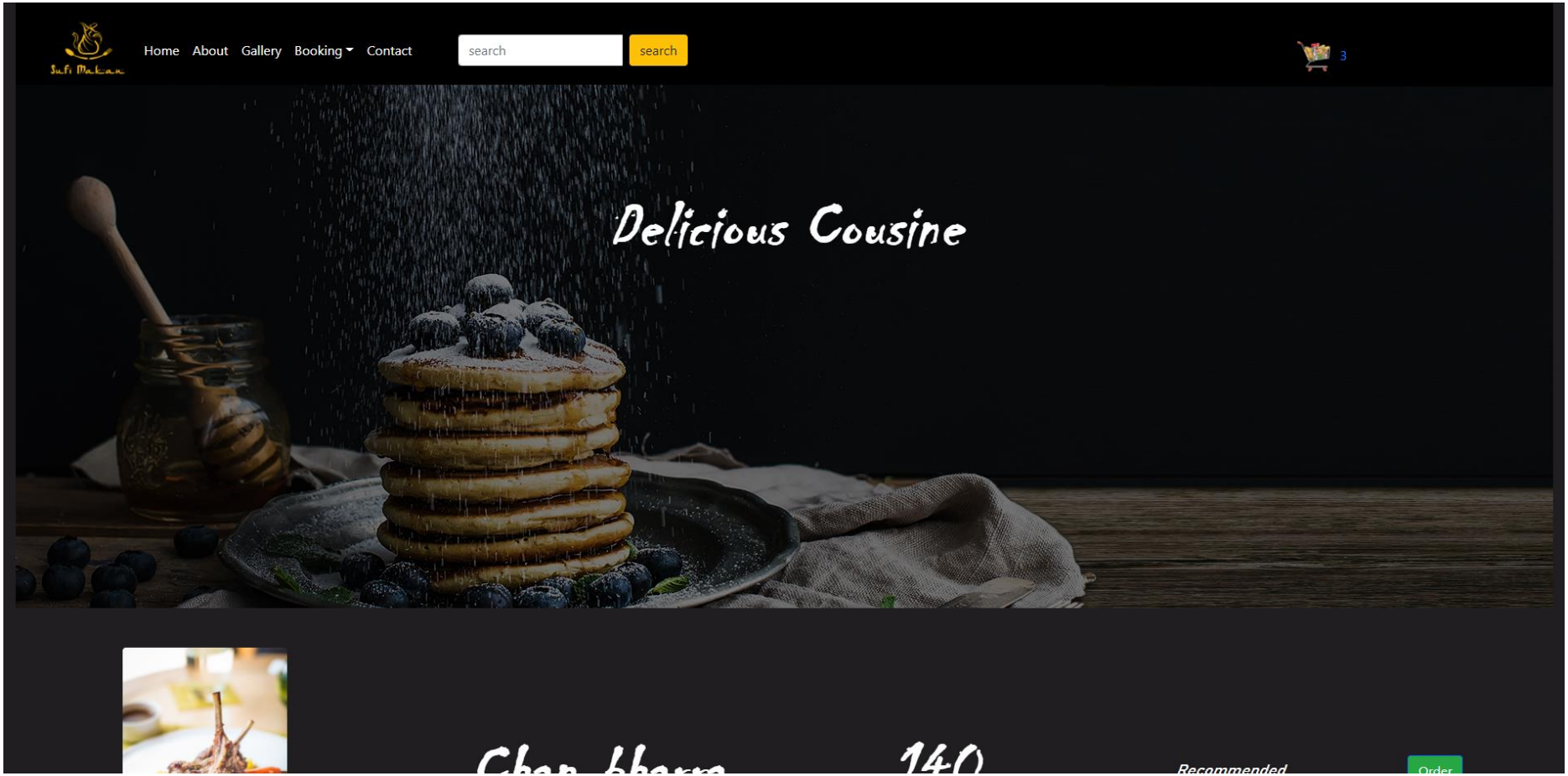
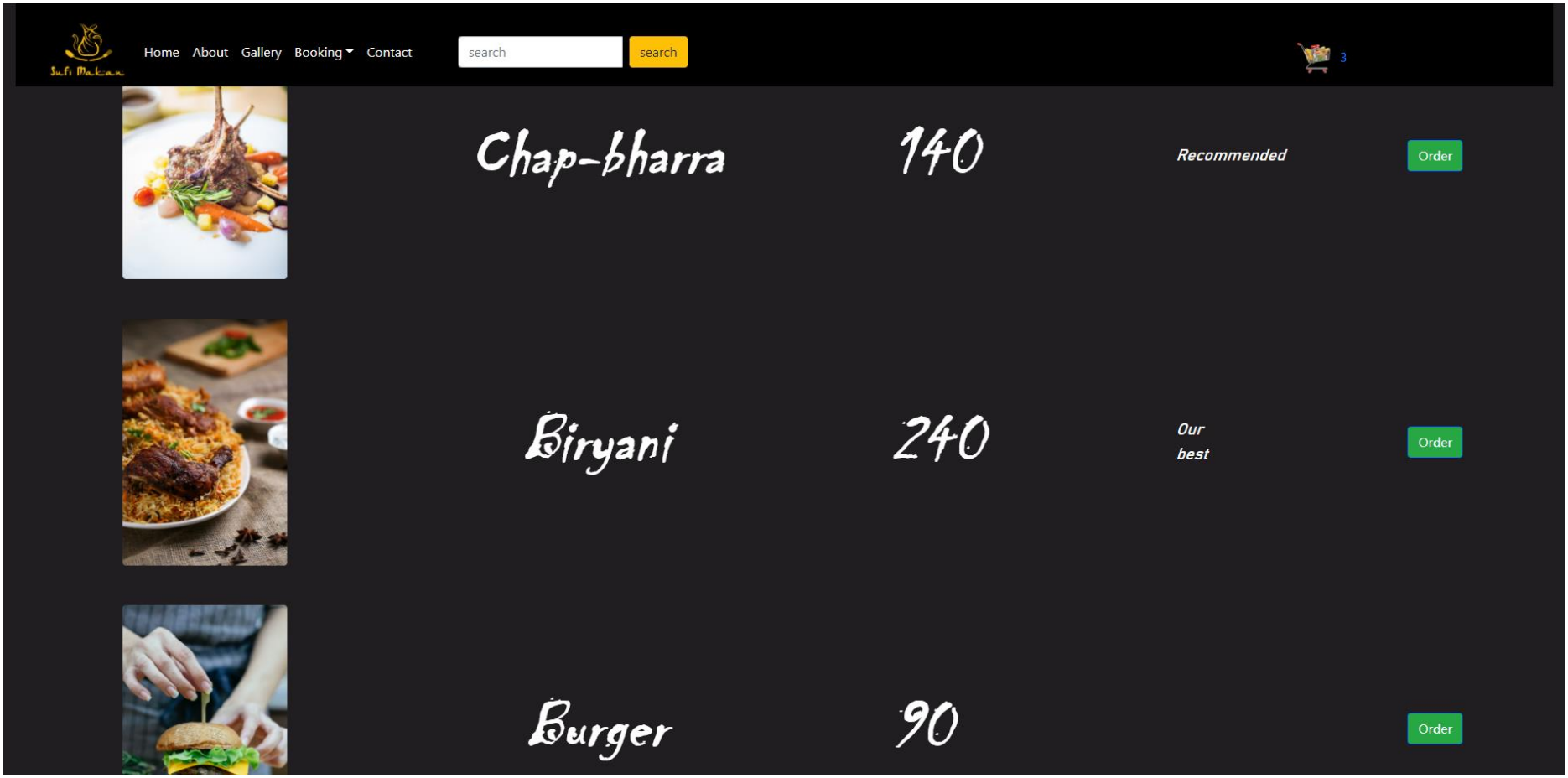
Poolsi
Ask it >
Lets Talk
Email: sufi@gmail.com
Phone nos: +564654646546

Website Menu page




Sufi Makan
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Gallery
Booking
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search
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140
Recommended
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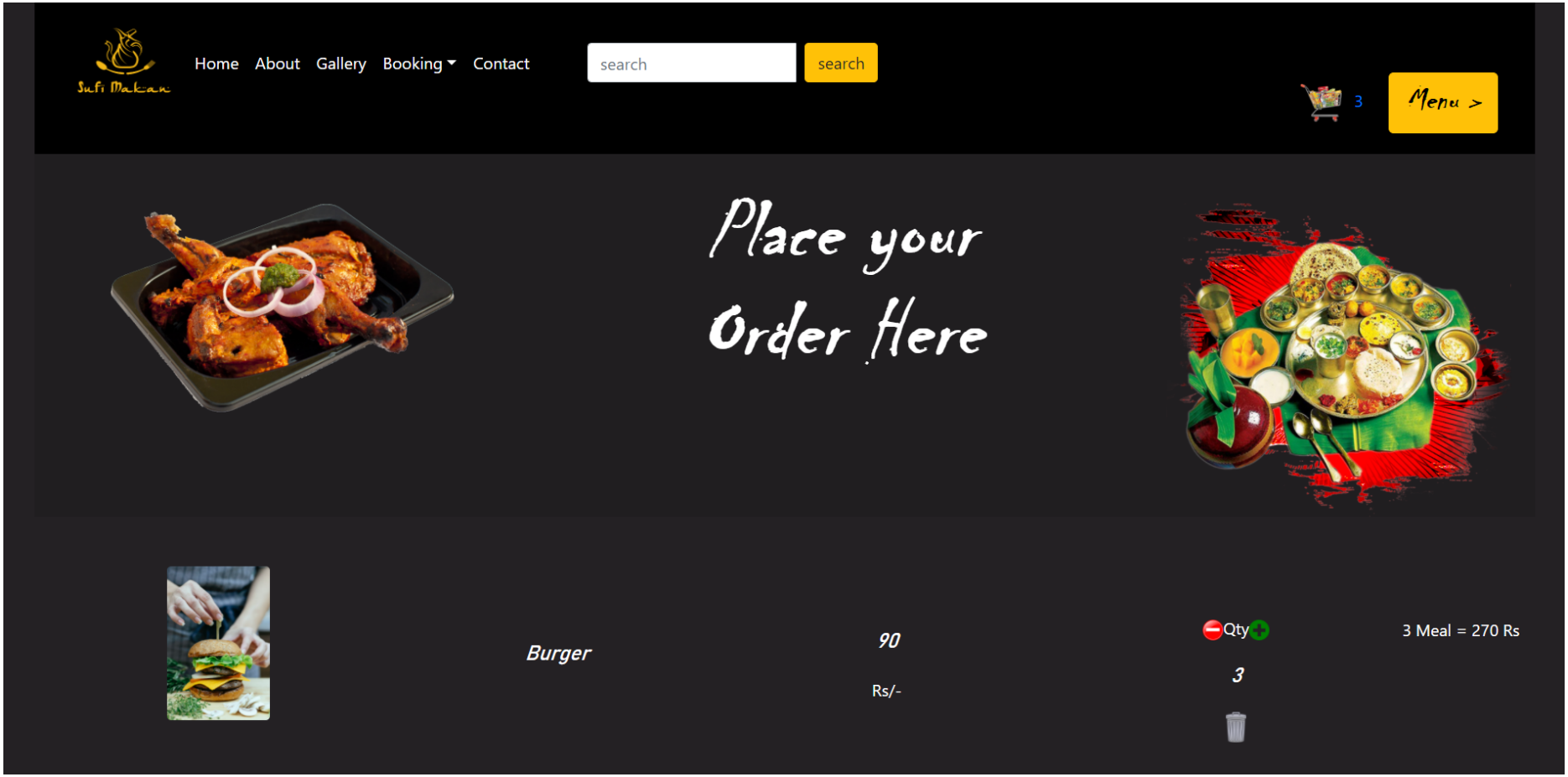
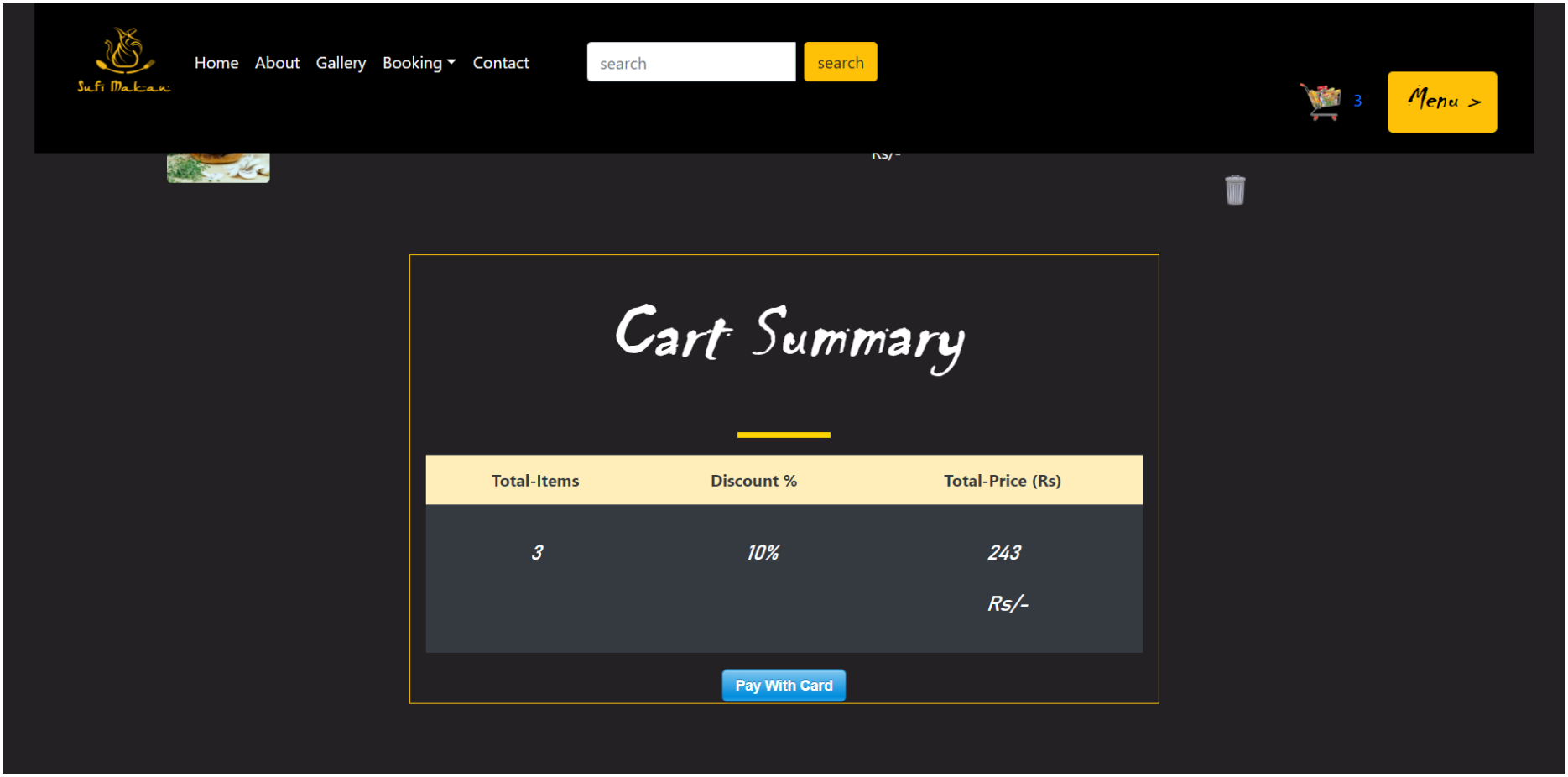
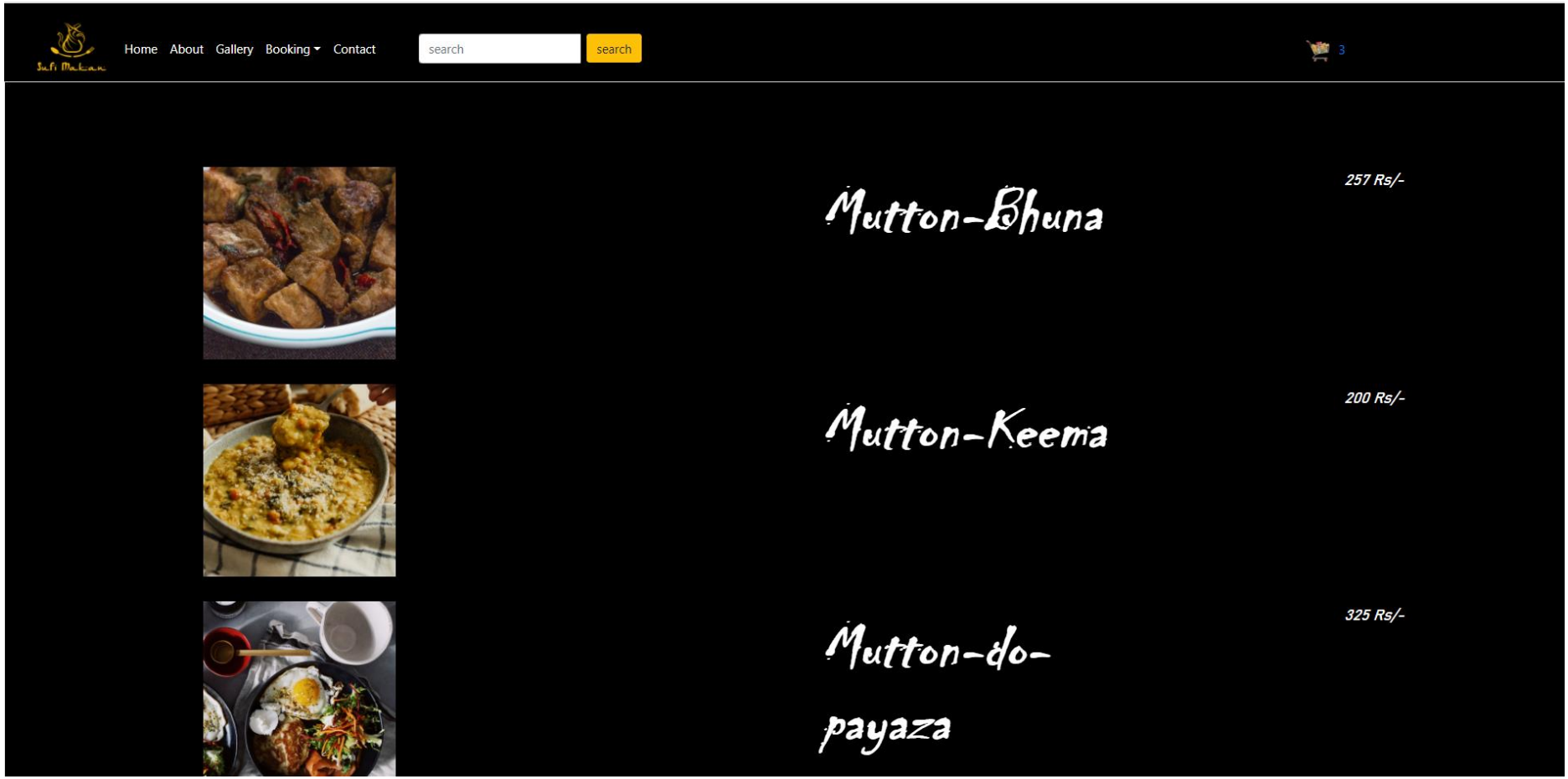
Biryani
240
Our
best
Order
Burger
90
Order

Website Cart page




Sufi Makan
Home
About
Gallery
Booking
Contact
search
search
3
Menu >
Cart Summary
Total-Items
Discount %
Total-Price (Rs)
3
10%
243
Rs/-
Pay With Card

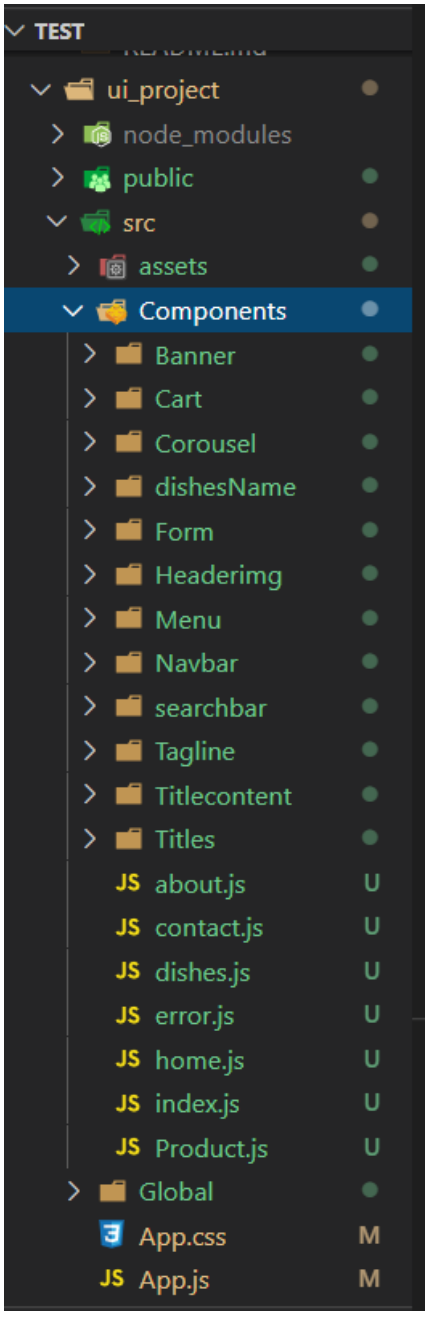
Website Search page



Chapter 9

Implementation Details

9.1 File structure



9.2 Data fetching via functions

ui_project > src > Components > Menu > JS index.js > Menu

```
import '../../../node_modules/bootstrap/dist/css/bootstrap.min.css';

const styling =
    {color:'black',
    fontFamily: 'Chiller' ,
    fontSize : '30px',
    margin : '20px',
    fontStyle: 'oblique',
    fontWeight : 'Bold'
}
const Menu = (props) => {
    return (
        <>
            <button type="button" className ="btn btn-lg btn-warning pt-1" style={styling} >
                {props.text}
            </button>
        </>
    )
}
export default Menu;
```

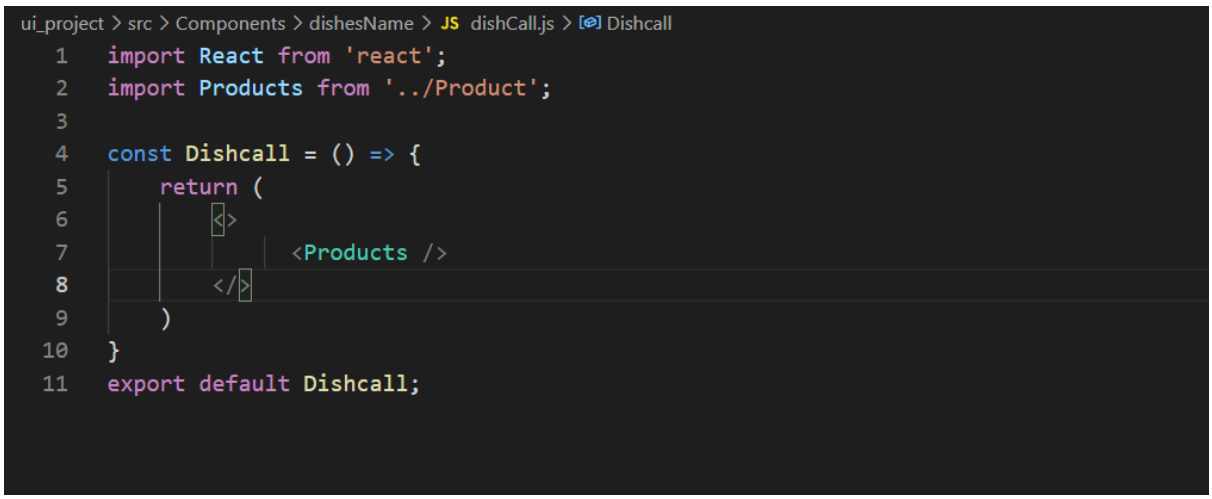
9.3 Single Page Application

ui_project > src > Components > JS index.js > ...

```
import ProductsContextProvider from '../Global/ProductsContext';
import CartContextProvider from '../Global/CartContext';
import About from './about';
import Detailpage from '../details';

const Call = () => {
    return (
   <>
   <ProductsContextProvider>
    <CartContextProvider>
      <Switch>
         <Route path ="/contact" component = {Contact} exact />
         <Route path ="/dishes" component = {Dishes} exact />
         <Route path ="/" component = {Home} exact />
         <Route path ="/cart" component = {Cart} exact />
         <Route exact path='/details'  component={Detailpage} />
         <Route path ='/about' component = {About}   exact />
         <Route  component = {Error} />
      </Switch>
      </CartContextProvider>
   </ProductsContextProvider>
   </>
    );
};
export default Call;
```

9.4 Using Components



Chapter 10

Results

10.1 Constraints and Challenges

1) Placing of PNG images as I wished

2) Not able to give order button on search pages

3) UI could be improved

4) Request of incoming and outgoing request acceptance delays can cause loose of interest.

Chapter 11

Conclusion

Initial Plans: - Well, I decide to build a secured and user friendly restaurant website where user can pre-book a seat in a restaurant or pre-order a meal. Apart from this I decide to make a digital menu and cart page. The other things I planned to work on were the search page, controlled carousel, all pages' responsiveness and Single page application.

Plans Achieved: - I was successfully able to achieve 90% of the things I decide to achieve. Unfortunately, the only part which I was not able to make was the order button on search pages as well.

Future Plans: - I will implement the order button on the search page and secondly will look for improvement in UI design of my website

References

1) https://www.w3schools.com/

2) https://www.textlocal.in/

3) https://developers.facebook.com/apps/2745054472476169/fb-login/settings/

4) https://console.developers.google.com/apis/library?project=quiet-sum-297708&supportedpurview=project

5) https://developer.paytm.com/docs/server-sdk/php/?ref=serverSdk

6) https://stackoverflow.com/

7) https://www.thapatechnical.com/

8) https://www.codecademy.com/learn/learn-jquery

9) https://www.canva.com/

10) https://getbootstrap.com/

11) https://reactjs.org/