

Food Review Website using Full MERN Stack Technology

- Ruchita Makwana
B00910227
rmakwan1@binghamton.edu

Introduction:

The objective of this project is to create and maintain a responsive Food Review Website using **MERN(MongoDB, Express.js, React, and Node.js)** application where the users can perform **CRUD** operations like post comments, add dishes as their favourites, provide feedback.

Implemented user engagement features using **Redux**, such as the ability for the users to manage their saved dishes, and an admin panel allowing for control over comments, feedback, and user details.

Built **RESTful APIs** using Node.js, Express.js, and MongoDB as a back-end for seamless communication between the client and server.

Technology Stack:

Languages used: ReactJS, Redux, MongoDB, Mongoose, NodeJS, ExpressJS, JavaScript, HTML5, CSS3, Bootstrap

Tools: Visual Studio Code, Postman

- Developed a React router based navigation to various views in your React application
- Developed a single page application using the React router support
- Created controlled forms and perform form validation
- Created Redux Actions
- Developed Redux actions using Redux Thunk
- Developed client-server communication using Fetch
- Developed Fetch-based communication with a REST API server
- Developed schemas and models for data storage using Mongoose
- Developed Json Web Token(JWT) authentication

React Router Code Snippet

```
const PrivateRoute = ({ component: Component, ...rest }) => (
  <Route {...rest} render={props} =>
    this.props.auth.isAuthenticated
      ? <Component {...props} />
      : <Redirect to={{
        pathname: '/home',
        state: { from: props.location }
      } />
)
);

return (
  <div>
    {/* <Header></Header> */}
    <Header auth={this.props.auth}
      loginUser={this.props.loginUser}
      signupUser={this.props.signupUser}
      logoutUser={this.props.logoutUser}
    />
    <TransitionGroup>
      <CSSTransition key={ this.props.location.key} classNames="page" timeout={300}>
        <Switch>
          <Route path="/home" component = {HomePage} />
          <Route exact path="/menu" component = {() => <Menu dishes = {this.props.dishes} />} />
          <Route path="/menu/:dishId" component={DishWithId} />
          <PrivateRoute exact path="/favorites" component={() => <Favorites favorites={this.props.favorites} deleteFavorite={this.props.deleteFavorite} />} />
          <Route exact path='/aboutus' component={() => <About leaders = {this.props.leaders}/>} />
          <Route exact path='/contactus' component={() => <Contact resetFeedbackForm={this.props.resetFeedbackForm} postFeedback={this.props.postFeedback} />} />
          <Redirect to="/home" />
        </Switch>
      </CSSTransition>
)
```

Form Validation Code Snippet

```
<h3>Send us Your Feedback</h3>
</div>
<div className='col-12 col-md-9'>
<Form name="submit-to-google-sheet" model="feedback" onSubmit={(values) => this.handleSubmit(values)}>
  <Row className="form-group">
    <Label htmlFor="firstname" md={2}>First Name</Label>
    <Col md={10}>
      <Control.text model=".firstname" id="firstname" name="firstname" placeholder="First Name" className="form-control" validators={{ required, minLength: minLength(3), maxLength: maxLength(15) }} />
    </Col>
    <Errors className="text-danger" model=".firstname" show="touched" messages={{ required: 'Required', minLength: 'Must be greater than 2 characters', maxLength: 'Must be 15 characters or less' }} />
  </Row>
  <Row className="form-group">
    <Label htmlFor="lastname" md={2}>Last Name</Label>
    <Col md={10}>
      <Control.text model=".lastname" id="lastname" name="lastname" placeholder="Last Name" className="form-control" validators={{ required, minLength: minLength(3), maxLength: maxLength(15) }} />
    </Col>
    <Errors className="text-danger" model=".lastname" show="touched" messages={{ required: 'Required', minLength: 'Must be greater than 2 characters', maxLength: 'Must be 15 characters or less' }} />
  </Row>
</Form>
```

Client-Server Communication using Fetch Code Snippet

```
import { postComment, fetchComments, fetchPromos, fetchLeaders, postFeedback, loginUser, signUpUser } from 'api';
import { actions } from 'react-redux-form';
import { TransitionGroup, CSSTransition } from 'react-transition-group';

const mapStateToProps = state => {
  return{
    dishes: state.dishes,
    comments: state.comments,
    promotions: state.promotions,
    leaders: state.leaders,
    favorites: state.favorites,
    auth: state.auth
  }
}

const mapDispatchToProps = (dispatch) => [
  postComment: (dishId, rating, comment) =>
    dispatch(postComment(dishId, rating, comment)),
  postFeedback: (id, firstname, lastname, telnum, email, agree, contactType, message ) =>
    dispatch(postFeedback(id, firstname, lastname, telnum, email, agree, contactType, message )),
  fetchDishes: () => { dispatch(fetchDishes())},
  resetFeedbackForm: () => { dispatch(actions.reset('feedback'))},
  fetchComments: () => { dispatch(fetchComments())},
  fetchPromos: () => { dispatch(fetchPromos())},
  fetchLeaders: () => { dispatch(fetchLeaders())},
  loginUser: (creds) => dispatch(loginUser(creds)),
  signUpUser: (credsdetails) => dispatch(signUpUser(credsdetails)),
  logoutUser: () => dispatch(logoutUser()),
  fetchFavorites: () => dispatch(fetchFavorites()),
  postFavorite: (dishId) => dispatch(postFavorite(dishId)),
  deleteFavorite: (dishId) => dispatch(deleteFavorite(dishId))
]
```

```
export const fetchComments = () => (dispatch) => {
  return fetch(baseUrl + 'comments')
    .then(response => {
      if(response.ok){
        return response;
      }
      else{
        var error = new Error('Error ' + response.status + ': ' + response.statusText );
        error.response = response;
        throw error;
      }
    }, error => {
      var errmess = new Error(error.message);
      throw errmess;
    })
    .then(response => response.json())
    .then(comments => dispatch(addComments(comments)))
    .catch(error => dispatch(commentsFailed(error.message)))
};

export const commentsFailed = (errmess) => ({
  type: ActionTypes.COMMENTS_FAILED,
  payload: errmess
});

export const addComments = (comments) => ({
  type: ActionTypes.ADD_COMMENTS,
  payload: comments
});
```

REST Api Server Communication Code Snippet

```
leaderRouter.use(bodyParser.json())

leaderRouter.route('/:id')
  .options(cors.corsWithOptions, (req, res) => {res.sendStatus(200)})
  .get(cors.cors, (req,res,next) => {
    Leaders.find(req.query)
    .then((leaders) => {
      res.statusCode = 200;
      res.setHeader('Content-Type', 'application/json');
      res.json(leaders);
    }, (err) => next(err))
    .catch((err) => next(err));
  })

  .post(cors.corsWithOptions, authenticate.verifyUser, authenticate.verifyAdmin, (req, res, next) => {
    Leaders.create(req.body)
    .then((leader) => {
      console.log('Leader Created ', leader);
      res.statusCode = 200;
      res.setHeader('Content-Type', 'application/json');
      res.json(leader);
    }, (err) => next(err))
    .catch((err) => next(err));
  })

  .put(cors.corsWithOptions, authenticate.verifyUser, authenticate.verifyAdmin, (req, res, next) => {
    res.statusCode = 403;
    res.end('PUT operation not supported on /leaders');
  })

  .delete(cors.corsWithOptions, authenticate.verifyUser, authenticate.verifyAdmin, (req, res, next) => {
    Leaders.remove({})
    .then((resp) => {
      res.statusCode = 200;
      res.setHeader('Content-Type', 'application/json');
      res.json(resp);
    }, (err) => next(err))
    .catch((err) => next(err));
  });
});
```

Schemas and Models used for data storage using Mongoose Code Snippet

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;
require('mongoose-currency').loadType(mongoose);
const Currency = mongoose.Types.Currency;

const dishSchema = new Schema({
  name: {
    type: String,
    required: true,
    unique: true
  },
  description: {
    type: String,
    required: true
  },
  image: {
    type: String,
    required: true
  },
  category: {
    type: String,
    required: true
  },
  label: {
    type: String,
    default: ''
  },
  price: {
    type: Currency,
    required: true,
    min: 0
  },
  featured: [
    type: Boolean,
    default:false
  ],
  {
    timestamps: true
  }
});

var Dishes = mongoose.model('Dish', dishSchema);
```

```
const mongoose = require('mongoose');
mongoose.set('strictQuery', true);
const Dishes = require('./models/dishes');
const cors = require('cors');

const url = config.mongoUrl;
const connect = mongoose.connect(url);

connect.then(db => {
  | | | console.log("Connected correctly to server");
}, (err) => { console.log(err); });

var app = express();

// Secure traffic only
app.all('*', (req, res, next) => {
  if (req.secure) {
    return next();
  }
  else {
    res.redirect(307, 'https://' + req.hostname + ':' + app.get('secPort') + req.url);
  }
});

// view engine setup
app.set('views', path.join(__dirname, 'views'));
app.set('view engine', 'jade');
// app.use(cors());
app.use(logger('dev'));
app.use(express.json());
app.use(express.urlencoded({ extended: false }));

app.use(cors());
```

JWT(JSON WEB TOKEN) Authentication Code Snippet

```
var JwtStrategy = require('passport-jwt').Strategy;
var ExtractJwt = require('passport-jwt').ExtractJwt;
var jwt = require('jsonwebtoken'); // used to create, sign, and verify tokens
var FacebookTokenStrategy = require('passport-facebook-token');

var config = require('./config.js');

exports.local = passport.use(new LocalStrategy(User.authenticate()));
passport.serializeUser(User.serializeUser());
passport.deserializeUser(User.deserializeUser());

exports.getToken = function(user) {
  return jwt.sign(user, config.secretKey,
    {expiresIn: 3600});
};

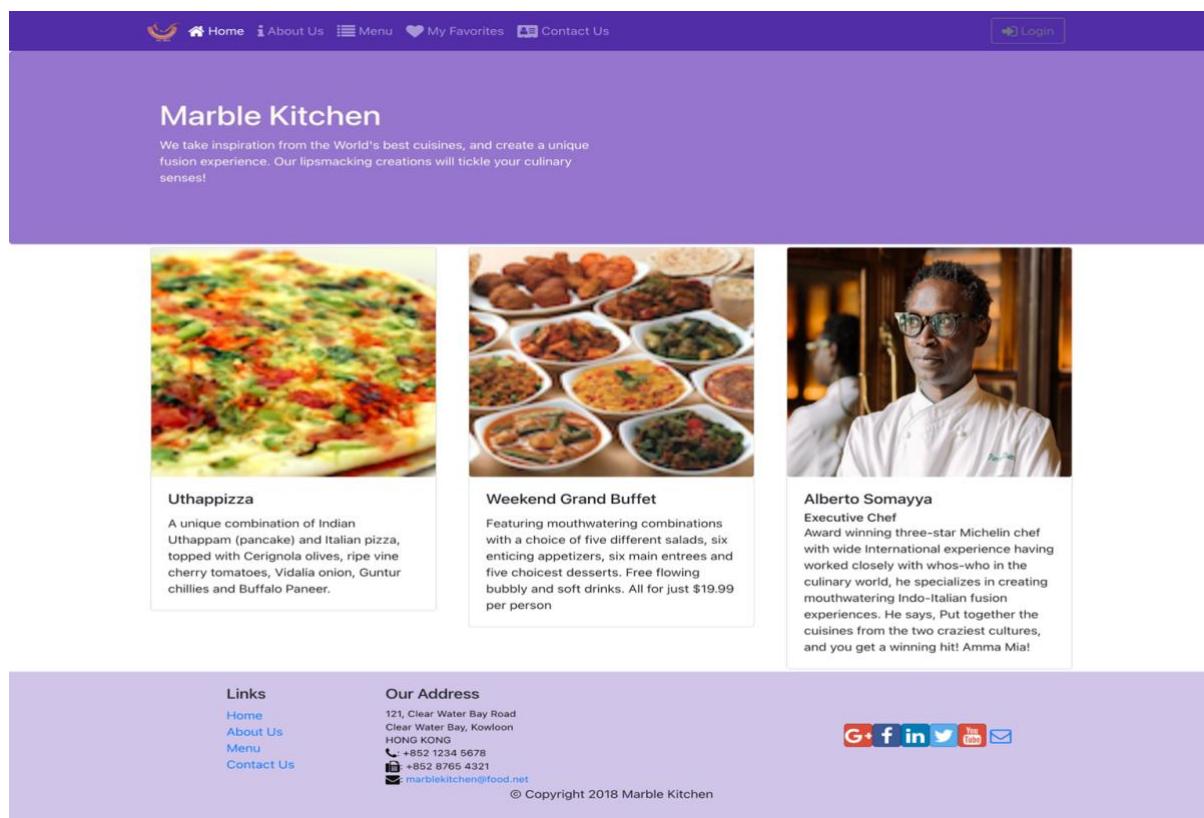
var opts = {};
opts.jwtFromRequest = ExtractJwt.fromAuthHeaderAsBearerToken();
opts.secretOrKey = config.secretKey;

exports.jwtPassport = passport.use(new JwtStrategy(opts,
  (jwt_payload, done) => {
    console.log("JWT payload: ", jwt_payload);
    User.findOne({_id: jwt_payload._id}, (err, user) => {
      if (err) {
        return done(err, false);
      }
      else if (user) {
        return done(null, user);
      }
      else {
        return done(null, false);
      }
    });
  }));

exports.verifyUser = passport.authenticate('jwt', {session: false});

exports.verifyAdmin = (req, res, next) => {
  if (req.user.admin) {
    next();
  }
}
```

Home Page



The screenshot shows the homepage of Marble Kitchen. At the top, there's a purple header bar with a navigation menu containing links for Home, About Us, Menu, My Favorites, Contact Us, and a Login button. Below the header is a large purple banner featuring the restaurant's name "Marble Kitchen". A sub-banner below it contains a brief description: "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!". To the left, there's a large image of a pizza labeled "Uthappizza". To the right, there's a photo of a chef named Alberto Somayya. In the center, there's a grid of images for the "Weekend Grand Buffet", showing various dishes like salads, soups, and desserts.

Links

- Home
- About Us
- Menu
- Contact Us

Our Address

121, Clear Water Bay Road
Clear Water Bay, Kowloon
HONG KONG
+852 1234 5678
+852 8765 4321
marblekitchen@food.net

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Alberto Somayya
Executive Chef
Award winning three-star Michelin chef with wide international experience having worked closely with who's-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Miat

About Us Page

[Home](#) [About Us](#) [Menu](#) [My Favorites](#) [Contact Us](#) [Login](#)

Marble Kitchen

We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!

About Us

Our History

Started in 2010, Marble Kitchen quickly established itself as a culinary icon par excellence in Hong Kong. With its unique brand of world fusion cuisine that can be found nowhere else, it enjoys patronage from the A-list clientele in Hong Kong. Featuring four of the best three-star Michelin stars in the world, you never know what will arrive on your plate the next time you visit us.

The restaurant traces its humble beginnings to *The Frying Pan*, a successful chain started by our CEO, Mr. Peter Pan, that featured for the first time the world's best cuisines in a pan.

You better cut the pizza in four pieces because I'm not hungry enough to eat six.
—Yogi Berra, *The Wit and Wisdom of Yogi Berra*, P. Pepe, Diversion Books, 2014

Corporate Leadership

Peter Pan
Chief Epicurious Officer

Our CEO, Peter, credits his hardworking East Asian immigrant parents who undertook the arduous journey to the shores of America with the intention of giving their children the best future. His mother's wizardry in the kitchen whipping up the tastiest soups with whatever is available inexpensively at the supermarket, was his first inspiration to create the fusion cuisines for which *The Frying Pan* became well known. He brings his zeal for fusion cuisines to this restaurant, pioneering cross-cultural culinary connections.

Dhanasekaran Witherspoon
Chief Food Officer

Our CFO, Danny, as he is affectionately referred to by his colleagues, comes from a long established family tradition in farming and produce. His experiences growing up on a farm in the Australian outback gave him great appreciation for varieties of food sources. As he puts it in his own words, Everything that runs, wins, and everything that stays, pays!

Agumbe Tang
Chief Taste Officer

Blessed with the most discerning gustatory sense, Agumbe, our CFO, personally ensures that every dish that we serve meets his exacting tastes. Our chefs dread the tongue lashing that ensues if their dish does not meet his exacting standards. He lives by his motto, You click only if you survive my lick.

Alberto Somayya
Executive Chef

Award winning three-star Michelin chef with wide international experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Anna Mia!

Links
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Menu Page

[Home](#) [About Us](#) [Menu](#) [My Favorites](#) [Contact Us](#) [Login](#)

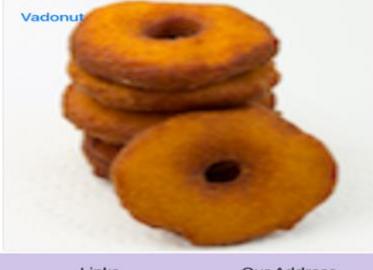
Marble Kitchen

We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!

Menu

Uthappizza 

Zucchipakoda 

Vadonut 

Elaicheese Cake 

Links
[Home](#) [About Us](#) [Menu](#) [Contact Us](#)

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My Favorites Page

The screenshot shows a web browser window with the URL localhost:3001/favorites. The page has a purple header with the title "Marble Kitchen". Below the header is a text block: "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!". A navigation bar at the bottom left includes "Home" and "My Favorites".

Uthappizza
A unique combination of Indian Uthappam (pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes, Vidalia onion, Guntur chillies and Buffalo Paneer.



ElaiCheese Cake
A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms



Links
[Home](#)
[About Us](#)
[Menu](#)
[My Favorites](#)
[Contact Us](#)

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Contact Us Page

The screenshot shows a web browser window with the URL localhost:3001/contact. The page has a purple header with the title "Marble Kitchen". Below the header is a text block: "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!". A navigation bar at the top includes "Home", "About Us", "Menu", "My Favorites", "Contact Us", and a "Logout" button.

Contact Us

Location Information

Our Address
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HONG KONG
+852 1234 5678
+852 8765 4321
marblekitchen@food.net

Map of our Location

 Call  Skype  Email

Send us Your Feedback

First Name: Rio
Last Name: Jane
Contact Tel.: 675684221
Email: rio@gmail.com
 May we contact you? Email

Your Feedback: Great place! Happy to be here again.

Send Feedback

Links
[Home](#)
[About Us](#)
[Menu](#)
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- User logins into the website using Login or SignUp Page

Marble Kitchen

We take inspiration from the World's best fusion experience. Our lipsmacking creations will tickle your taste buds and senses!

[Home](#) | [Contact Us](#)

Contact Us

Location Information

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Map of our Location

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Marble Kitchen

We take inspiration from the World's best fusion experience. Our lipsmacking creations will tickle your taste buds and senses!

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Contact Us

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Map of our Location

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- User can provide ratings and comments to particular dishes

Menu / ElaiCheese Cake

ElaiCheese Cake

A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms

Rating

1
2
3
4
5

Comment

Submit

Links

[Home](#)
[About Us](#)
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Menu / ElaiCheese Cake

ElaiCheese Cake

A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms

Rating

4

Comment

Too Sweet!

Submit

Links

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- Latest Comment get Added to the bottom

The screenshot shows a web page for "ElaiCheese Cake". On the left, there's a large image of a slice of cheese cake garnished with strawberries and mint. Below the image is the dish name and a brief description: "A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms". To the right is a "Comments" section with several entries from users like Admin Head, Johnny Lever, and Rio Jane, along with their dates. At the bottom right of the comments section is a "Submit Comment" button.

- Favorites is Empty initially as new user does not have any dish saved as favorites

The screenshot shows a web page titled "Marble Kitchen". The main content area has a purple background with the text "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!". Below this is a "My Favorites" section with a heading "My Favorites" and a sub-section "Home / My Favorites". At the bottom are "Links" (Home, About Us, Menu, Contact Us) and "Our Address" (121, Clear Water Bay Road, Clear Water Bay, Kowloon, HONG KONG), along with social media icons and a copyright notice.

- User can add favorite by clicking the heart shaped icon for favorite and the dish gets added to favorites

The screenshot shows a web page for "Uthappizza". On the left, there's a large image of a Uthappizza topped with various vegetables and cheese. Below the image is the dish name and a brief description: "A unique combination of Indian Uthappam (pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes, Vidalia onion, Guntur chillies and Buffalo Paneer.". To the right is a "Comments" section with several entries from users like Ruchita Makwana, Admin Head, and Runali Makwana, along with their dates. At the bottom right of the comments section is a "Submit Comment" button.

feedback - Google Sheets React App

localhost:3001/favorites

Home | About Us | Menu | My Favorites | Contact Us Logout

Marble Kitchen

We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!

[Home](#) / [My Favorites](#)

My Favorites



Uthappizza

A unique combination of Indian Uthappam (pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes, Vidalia onion, Guntur chillies and Buffalo Paneer.



Links

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[About Us](#)
[Menu](#)
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- Similarly user can also remove dishes from their favorites by deleting it by clicking on the cross-icon(X)

feedback - Google Sheets React App

localhost:3001/favorites

Home | About Us | Menu | My Favorites | Contact Us Logout

Marble Kitchen

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[Home](#) / [My Favorites](#)

My Favorites



Uthappizza

A unique combination of Indian Uthappam (pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes, Vidalia onion, Guntur chillies and Buffalo Paneer.



feedback - Google Sheets React App

localhost:3001/favorites

Home | About Us | Menu | My Favorites | Contact Us Logout

Marble Kitchen

We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!

[Home](#) / [My Favorites](#)

My Favorites



ElaiCheese Cake

A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms



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Links

[Home](#)

Our Address

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ElaiCheese Cake

Comments

- Loved it -- Admin Head ,Jan 15, 2023
- Lovely CheeseCake -- Johnny Lever ,Jan 29, 2023
- Must Try -- Admin Head ,Feb 16, 2023
- Too Sweet! -- Rio Jane ,Apr 30, 2023

[Submit Comment](#)

ElaiCheese Cake

A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms

Links

Our Address

- User can also provide feedback and the details gets stored into the Excel Sheet. Feedback form also contains data validation

Send us Your Feedback

First Name: Rio
Must be greater than 2 characters

Last Name: Ja
Must be greater than 2 characters

Contact Tel.: 67
Must be greater than 2 numbers

Email: d
Invalid Email Address

May we contact you?

Your Feedback

Tel. **Email**

[Send Feedback](#)

Send us Your Feedback

First Name: Rio

Last Name: Jane

Contact Tel.: rio@gmail.com
Must be a number

Email: 124
Invalid Email Address

May we contact you?

Your Feedback

[Send Feedback](#)

- User is alerted on Message send successfully

Message send successfully!

Links

[Home](#)
[About Us](#)

Our Address

121, Clear Water Bay Road
Clear Water Bay, Kowloon



- Excel Sheet is updated with the information

Admin Controls:

- Admin can View Dishes details using GET method

The screenshot shows the Postman interface with a successful API call. The URL is `https://localhost:3443/dishes`. The response status is 200 OK, time is 8 ms, and size is 1.72 KB. The response body is a JSON object representing a dish:

```
38     "updatedAt": "2023-01-15T01:59:13.637Z",
39     "__v": 0
40   },
41   {
42     "label": "",
43     "featured": false,
44     "_id": "63c35dfc1e4103db88be703f",
45     "name": "ElaiCheese Cake",
46     "image": "images/elaicheesecake.png",
47     "category": "dessert",
48     "price": 299,
49     "description": "A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms",
50     "createdAt": "2023-01-15T01:59:24.194Z",
51     "updatedAt": "2023-01-15T01:59:24.194Z",
52     "__v": 0
53   }
54 ]
```

The screenshot shows the Marble Kitchen website menu page. The top navigation bar includes Home, About Us, Menu, My Favorites, and Contact Us. The main content area features a purple header with the text "Marble Kitchen" and a sub-header: "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!". Below this is a breadcrumb navigation: Home / Menu. The menu section is titled "Menu" and displays four items with images:

- Uthappizza
- Zucchipakoda
- Vadonut
- ElaiCheese Cake

At the bottom, there are links for "Links" (Home, About Us, Menu, Contact Us) and "Our Address" (Address: 121, Clear Water Bay Road, Clear Water Bay, Kowloon, Hong Kong, Phone: +852 1234 5678, Email: +852 8765 4321, Email: marblekitchen@food.net). Social media icons for Google+, Facebook, LinkedIn, Twitter, YouTube, and Email are also present.

- Admin can Add new Dishes details using POST method

The screenshot shows the Postman interface. The URL in the address bar is <https://localhost:3443/dishes>. The method is set to POST. The Body tab is selected, showing a JSON payload:

```

1
2   "name": "Khadvi Roll",
3   "image": "images/khadvi_roll.jpeg",
4   "category": "mains",
5   "label": "Hot",
6   "price": "8.99",
7   "featured": "true",
8   "description": "A unique combination of Indian Khandvi (crepe) rolled with Spinach and Cottage Cheese fillings."
9

```

The response status is 201 Created, with a time of 14 ms and a size of 622 B. The JSON response body is:

```

1
2   "label": "Hot",
3   "featured": true,
4   "_id": "644ef60c08e7311acfca13b5",
5   "name": "Khadvi Roll",
6   "image": "images/khadvi_roll.jpeg",
7   "category": "mains",
8   "price": 899,
9   "description": "A unique combination of Indian Khandvi (crepe) rolled with Spinach and Cottage Cheese fillings.",
10  "createdAt": "2023-04-30T23:13:16.718Z",
11  "updatedAt": "2023-04-30T23:13:16.718Z",
12  "__v": 0
13

```

The screenshot shows the Marble Kitchen website. The header includes links for Home, About Us, Menu, My Favorites, and Contact Us. The main content area features a purple banner with the text "Marble Kitchen" and "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!". Below the banner, there are four dish categories: Pizza (Margherita), Snacks (Vadonut), Desserts (ElaiCheese Cake), and a featured dish (Khadvi Roll). Each category has a thumbnail image.

The screenshot shows the Marble Kitchen website. The header includes links for Home, About Us, Menu, My Favorites, and Contact Us. The main content area features a purple banner with the text "Marble Kitchen" and "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!". Below the banner, there is a link to the "Khadvi Roll" page. The Khadvi Roll detail page shows a large image of the dish and a "Comments" section with a "Submit Comment" button.

- Admin can Update Dishes details using PUT method

The screenshot shows the Postman interface with a PUT request to <https://localhost:3443/dishes/63c35df11e4103db88be703e>. The request body contains the JSON object:

```
1 {"name": "Donut Pizza Burn"}
```

. The response status is 200 OK with a size of 596 B.

The screenshot shows a web browser window at localhost:3001/menu. It displays four dishes:

- A pizza with toppings like pepperoni and bell peppers.
- A bowl of soup next to a piece of bread.
- Donut Pizza Burn**: A stack of golden-brown donuts.
- ElaiCheese Cake**: A slice of cake with a yellow frosting layer and a strawberry garnish.
- Khadvi Roll**: A close-up of a yellow, textured dessert roll.

- Admin can Remove Dishes details using DELETE method

The screenshot shows the Postman interface with the following details:

- URL:** <https://localhost:3443/dishes/644ef60c08e731acfca13b5>
- Method:** DELETE
- Status:** 200 OK
- Time:** 10 ms
- Size:** 617 B
- Body (Pretty):**

```

1
2   "label": "Hot",
3   "featured": true,
4   "_id": "644ef60c08e731acfca13b5",
5   "name": "Khadvi Roll",
6   "image": "images/khadvi_roll.jpeg",
7   "category": "mains",
8   "price": 899,
9   "description": "A unique combination of Indian Khandvi (crepe) rolled with Spinach and Cottage Cheese fillings.",
10  "createdAt": "2023-04-30T23:13:16.718Z",
11  "updatedAt": "2023-04-30T23:13:16.718Z",
12  "__v": 0
13

```

The screenshot shows the Marble Kitchen website with the following details:

- Header:** Home, About Us, Menu, My Favorites, Contact Us, Logout
- Section:** Marble Kitchen
- Text:** We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!
- Menu:** Home / Menu
- Dishes:**
 - Mthappizza
 - Zucchipakoda
 - Donut Pizza Burn
 - Elaicheese Cake
- Links:** Home, About Us, Menu, Contact Us
- Our Address:**

121, Clear Water Bay Road
Clear Water Bay, Kowloon
HONG KONG
+852 1234 5678
+852 8765 4321
mailto:marblekitchen@food.net
- Social Media:** G+, f, in, t, YouTube, Email
- Copyright:** © Copyright 2018 Marble Kitchen

- Admin can View Chefs details using GET method

The screenshot shows the Postman interface with a successful API call. The URL is <https://localhost:3443/leaders/>. The response status is 200 OK, time is 9 ms, and size is 2.72 KB. The response body is a JSON object representing a chef:

```

35     "updatedAt": "2023-02-16T19:58:18.648Z",
36     "_v": 0
37   },
38   {
39     "featured": true,
40     "_id": "63ee8d6ed67a763d906b52f",
41     "name": "Alberto Somayya",
42     "image": "images/alberto1.png",
43     "designation": "Executive Chef",
44     "abbr": "EC",
45     "description": "Award winning three-star Michelin chef with wide International experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Mial",
46     "createdAt": "2023-02-16T20:09:18.667Z",
47     "updatedAt": "2023-02-16T20:09:18.667Z",
48     "_v": 0
49   }
50
  
```

The screenshot shows the Marble Kitchen website's About Us page. The page title is "Marble Kitchen". A sub-header reads: "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lipsmacking creations will tickle your culinary senses!" Below this, there is a section titled "Our History" with a brief history of the restaurant. To the right, there is a "Facts At a Glance" box containing the following information:

Facts At a Glance	
Started	3 Feb. 2013
Major Stake Holder	HK Fine Foods Inc.
Last Year's Turnover	\$1,250,375
Employees	40

The screenshot continues the About Us page. It features a quote from Yogi Berra: "You better cut the pizza in four pieces because I'm not hungry enough to eat six." Below the quote is a note: "— Yogi Berra, *The Wit and Wisdom of Yogi Berra*, P. Pepe, Diversion Books, 2014".

Corporate Leadership



Peter Pan

Chief Epicurious Officer

Our CEO, Peter, credits his hardworking East Asian immigrant parents who undertook the arduous journey to the shores of America with the intention of giving their children the best future. His mother's wizardry in the kitchen whipping up the tastiest dishes with whatever is available inexpensively at the supermarket, was his first inspiration to create the fusion cuisines for which The Frying Pan became well known. He brings his zeal for fusion cuisines to this restaurant, pioneering cross-cultural culinary connections.



Dhanasekaran Witherspoon

Chief Food Officer

Our CFO, Danny, as he is affectionately referred to by his colleagues, comes from a long established family tradition in farming and produce. His experiences growing up on a farm in the Australian outback gave him great appreciation for varieties of food sources. As he puts it in his own words, Everything that runs, wins, and everything that stays, pays!



Agumbe Tang

Chief Taste Officer

Blessed with the most discerning gustatory sense, Agumbe, our CFO, personally ensures that every dish that we serve meets his exacting tastes. Our chefs dread the tongue lashing that ensues if their dish does not meet his exacting standards. He lives by his motto, You click only if you survive my lick.



Alberto Somayya

Executive Chef

Award winning three-star Michelin chef with wide International experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Mial

The screenshot shows the footer of the Marble Kitchen website. It includes links to Home, About Us, Menu, and Contact Us. The footer also contains social media icons for Google+, Facebook, LinkedIn, Twitter, and YouTube, along with an email icon. The address is listed as follows:

Links

- Home
- About Us
- Menu
- Contact Us

Our Address

123, Clear Water Bay Road
Clear Water Bay, Kowloon
HONG KONG
Tel: +852 8765 5678
Email: marblekitchen@food.net

© Copyright 2018 Marble Kitchen

- Admin can Add new Chefs details using POST method

The screenshot shows the Postman interface with a POST request to <https://localhost:3443/leaders>. The JSON body contains the following data:

```

1 {"name": "Gordon Ramsay",
2   "image": "images/Gordon_Ramsay.jpeg",
3   "designation": "Master Chef",
4   "abbr": "AC",
5   "featured": true,
6   "description": "Gordon James Ramsay OBE is a British celebrity chef, restaurateur, television personality and writer. His restaurant group, Gordon Ramsay Restaurants, was founded in 1997 and has been awarded 17 Michelin stars overall; it currently holds a total of seven!"}
7
  
```

The response status is 200 OK, time 12 ms, size 776 B.

The screenshot shows the Marble Kitchen website's About Us page. The header includes links for Home, About Us, Menu, My Favorites, Contact Us, and Logout. The main content features a purple banner with the text "Marble Kitchen" and "We take inspiration from the World's best cuisines, and create a unique fusion experience. Our lip-smacking creations will tickle your culinary senses!". Below this is a section titled "About Us" with a sub-section "Our History". It features a quote by Yogi Berra: "You better cut the pizza in four pieces because I'm not hungry enough to eat six." — Yogi Berra, *The Wit and Wisdom of Yogi Berra*, P. Pepe, Diversion Books, 2014.

The screenshot shows the Corporate Leadership page. It lists five key figures:

- Peter Pan** (Chief Epicurious Officer) - A photo of a man in a chef's uniform. Text: "Started in 2010, Marble Kitchen quickly established itself as a culinary icon par excellence in Hong Kong. With its unique brand of world fusion cuisine that can be found nowhere else, it enjoys patronage from the A-list clientele of Hong Kong. Featuring four of the best three-star Michelin chefs in the world, you never know what will arrive on your plate the next time you visit us." A quote: "The restaurant traces its humble beginnings to *The Frying Pan*, a successful chain started by our CEO, Mr. Peter Pan, that featured for the first time the world's best cuisines in a pan."
- Dhanasekaran Witherspoon** (Chief Food Officer) - A photo of a man in a chef's uniform. Text: "You better cut the pizza in four pieces because I'm not hungry enough to eat six. — Yogi Berra, *The Wit and Wisdom of Yogi Berra*, P. Pepe, Diversion Books, 2014."
- Agumbe Tang** (Chief Taste Officer) - A photo of a man in a chef's uniform. Text: "Blessed with the most discerning gustatory sense, Agumbe, our CFO, personally ensures that every dish that we serve meets his exacting tastes. Our chefs dread the tongue lashing that ensues if their dish does not meet his exacting standards. He lives by his motto, You click only if you survive my lick."
- Alberto Somayya** (Executive Chef Specialist) - A photo of a man in a chef's uniform. Text: "Award winning three-star Michelin chef with wide international experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Mia!"
- Gordan Ramsay** (Master Chef) - A photo of a man in a chef's uniform. Text: "Gordon James Ramsay OBE is a British celebrity chef, restaurateur, television personality and writer. His restaurant group, Gordon Ramsay Restaurants, was founded in 1997 and has been awarded 17 Michelin stars overall; it currently holds a total of seven!"

The screenshot shows the footer of the Marble Kitchen website. It includes links for Home, About Us, Menu, and Contact Us. The "Our Address" section provides the following information:

121, Clear Water Bay Road
Clear Water Bay, Kowloon
Hong Kong
+852 1234 5678
+852 8765 4321
mailto@marblekitchenfood.net

Copyright 2018 Marble Kitchen

- Admin can Update Chefs details using PUT method

The screenshot shows the Postman interface. A PUT request is being made to <https://localhost:3443/leaders/63ee8d6ed667a763d906b52f>. The request body contains the JSON payload: `{ "designation": "Executive Chef Specialist" }`. The response status is 200 OK, with a time of 13 ms and a size of 841 B.

The browser window shows the URL localhost:3001/aboutus. The page displays information about Dhanasekaran Witherspoon, Chief Food Officer, including a photo and a bio. It also lists Agumbe Tang, Chief Taste Officer, Alberto Somayya, Executive Chef Specialist, and Gordan Ramsay, Master Chef.



Dhanasekaran Witherspoon

Chief Food Officer

Our CFO, Danny, as he is affectionately referred to by his colleagues, comes from a long established family tradition in farming and produce. His experiences growing up on a farm in the Australian outback gave him great appreciation for varieties of food sources. As he puts it in his own words, Everything that runs, wins, and everything that stays, pays!



Agumbe Tang

Chief Taste Officer

Blessed with the most discerning gustatory sense, Agumbe, our CFO, personally ensures that every dish that we serve meets his exacting tastes. Our chefs dread the tongue lashing that ensues if their dish does not meet his exacting standards. He lives by his motto, You click only if you survive my lick.



Alberto Somayya

Executive Chef Specialist

Award winning three-star Michelin chef with wide International experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Mia!



Gordan Ramsay

Master Chef

Gordon James Ramsay OBE is a British celebrity chef, restaurateur, television personality and writer. His restaurant group, Gordon Ramsay Restaurants, was founded in 1997 and has been awarded 17 Michelin stars overall; it currently holds a total of seven!

- Admin can Remove Chefs details using DELETE method

DELETE https://localhost:3443/leaders/644ef42908e7311acfca13b4

Authorization (10)

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpxVCJ9.eyJ...

Status: 200 OK Time: 11 ms Size: 778 B

```

1 "featured": true,
2 "_id": "644ef42908e7311acfca13b4",
3 "name": "Gordan Ramsay",
4 "image": "images/Gordon_Ramsay.jpeg",
5 "designation": "Master Chef",
6 "abbr": "AC",
7 "description": "Gordon James Ramsay OBE is a British celebrity chef, restaurateur, television personality and writer. His restaurant group, Gordon Ramsay Restaurants, was founded in 1997 and has been awarded 17 Michelin stars overall; it currently holds a total of seven!",
8 "createdAt": "2023-04-30T23:05:13.692Z",
9 "updatedAt": "2023-04-30T23:05:13.692Z",
10 "__v": 0
11
12
  
```

tastiest dishes with whatever is available inexpensively at the supermarket, was his first inspiration to create the fusion cuisines for which The Frying Pan became well known. He brings his zeal for fusion cuisines to this restaurant, pioneering cross-cultural culinary connections.



Dhanasekaran Witherspoon

Chief Food Officer

Our CFO, Danny, as he is affectionately referred to by his colleagues, comes from a long established family tradition in farming and produce. His experiences growing up on a farm in the Australian outback gave him great appreciation for varieties of food sources. As he puts it in his own words, Everything that runs, wins, and everything that stays, pays!



Agumbe Tang

Chief Taste Officer

Blessed with the most discerning gustatory sense, Agumbe, our CFO, personally ensures that every dish that we serve meets his exacting tastes. Our chefs dread the tongue lashing that ensues if their dish does not meet his exacting standards. He lives by his motto, You click only if you survive my lick.



Alberto Somayya

Executive Chef Specialist

Award winning three-star Michelin chef with wide International experience having worked closely with whos-who in the culinary world, he specializes in creating mouthwatering Indo-Italian fusion experiences. He says, Put together the cuisines from the two craziest cultures, and you get a winning hit! Amma Mia!

Links

Our Address

- Admin can View Comments details using GET method for specific dish

- Admin can View Specific Comments details using GET method for specific dish

```

1
2   "_id": "63ee2c0189f89c350a6bab86",
3   "dish": "63c35dfc1e4103db88be703f",
4   "rating": 4,
5   "comment": "Must Try",
6   "author": {
7     "firstname": "Admin",
8     "lastname": "Head",
9     "admin": true,
10    "_id": "63c35b931e4103db88be703b",
11    "username": "admin",
12    "__v": 0
13  },
14  "createdAt": "2023-02-16T13:13:37.544Z",
15  "updatedAt": "2023-02-16T13:13:37.544Z",
16  "__v": 0

```

feedback - Google Sheets React App

localhost:3001/menu/63c35dfc1e4103db88be703f

Menu / ElaiCheese Cake

ElaiCheese Cake



Comments

Loved it
-- Admin Head ,Jan 15, 2023

Lovely CheeseCake
-- Johnny Lever ,Jan 29, 2023

Must Try

-- Admin Head ,Feb 16, 2023

Too Sweet!
-- Rio Jane ,Apr 30, 2023

[Submit Comment](#)

Links
[Home](#)

Our Address
121, Clear Water Bay Road

- Admin can Update Specific Comments details using PUT method

Home Workspaces API Network Explore

https://localhost:3443/comments/63ee2c0189f89c350a6bab86

PUT https://localhost:3443/comments/63ee2c0189f89c350a6bab86

Params Authorization Headers (12) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {"comment": "Ok Dish"}
```

Status: 200 OK Time: 12 ms Size: 576 B Save as Example

Body Cookies Headers (8) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "_id": "63ee2c0189f89c350a6bab86",
3   "dish": "63c35dfc1e4103db88be703f",
4   "rating": 4,
5   "comment": "Ok Dish",
6   "author": {
7     "firstname": "Admin",
8     "lastname": "Head",
9     "admin": true,
10    "_id": "63c35dfc1e4103db88be703b",
11    "username": "admin",
12    "v": 0
13  },
14  "createdAt": "2023-02-16T13:23:37.544Z",
15  "updatedAt": "2023-04-30T23:22:49.347Z",
16  "v": 0
}
```

Online Find and Replace Console

feedback - Google Sheets React App

localhost:3001/menu/63c35dfc1e4103db88be703f

Menu / ElaiCheese Cake

ElaiCheese Cake



Comments

Loved It
-- Admin Head ,Jan 15, 2023

Lovely CheeseCake
-- Johnny Lever ,Jan 29, 2023

Ok Dish
-- Admin Head ,Apr 30, 2023

Too Sweet!
-- Rio Jane ,Apr 30, 2023

[Submit Comment](#)

Links
[Home](#)

Our Address
121, Clear Water Bay Road

- Admin can Remove Comments details using DELETE method

The screenshot shows the Postman interface with a DELETE request sent to <https://localhost:3443/comments/63ee2c0189f89c350a6bab86>. The Authorization header is set to Bearer Token with the value eyJhbGciOiJIUzI1NltsInR5cC16IkpxVCJ0.eyJ... . The response status is 200 OK with a size of 489 B.

```

1
2
3
4
5
6
7
8
9
10
{
  "id": "63ee2c0189f89c350a6bab86",
  "dish": "63c35dfc1e4103db88be7031",
  "rating": 4,
  "comment": "Ok Dish",
  "author": "63c35bf31e4103db88be703b",
  "createdAt": "2023-02-16T13:13:37.544Z",
  "updatedAt": "2023-04-30T23:22:49.347Z",
  "__v": 0
}

```

The screenshot shows a web application menu for 'ElaiCheese Cake'. The page includes a photo of a slice of cheese cake with strawberries, a title, a description, and a comments section. The comments section displays four entries from different users with their timestamps.

Comments

- Loved It -- Admin Head ,Jan 15, 2023
- Lovely CheeseCake -- Johnny Lever ,Jan 29, 2023
- Ok Dish** -- Admin Head ,Apr 30, 2023
- Too Sweet! -- Rio Jane ,Apr 30, 2023

[Submit Comment](#)

ElaiCheese Cake
A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms

Links
[Home](#) [About Us](#)

Our Address
121, Clear Water Bay Road
Clear Water Bay, Kowloon
HONG KONG

[G+](#) [f](#) [in](#) [t](#) [Y](#) [e](#)

The screenshot shows the same web application menu for 'ElaiCheese Cake'. The comments section now only displays three entries, indicating that one comment has been deleted.

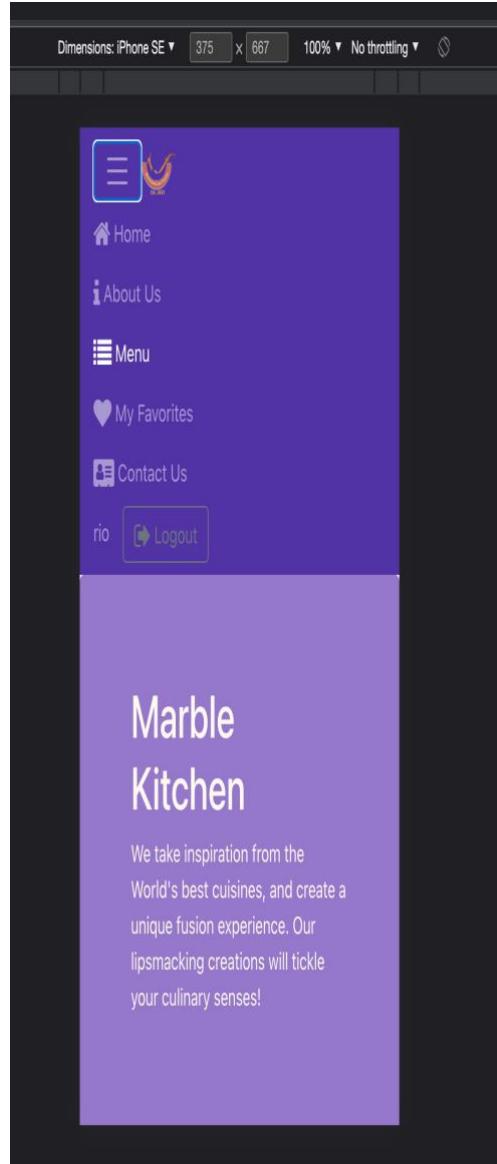
Comments

- Loved It -- Admin Head ,Jan 15, 2023
- Lovely CheeseCake -- Johnny Lever ,Jan 29, 2023
- Too Sweet! -- Rio Jane ,Apr 30, 2023

[Submit Comment](#)

ElaiCheese Cake
A delectable, semi-sweet New York Style Cheese Cake, with Graham cracker crust and spiced with Indian cardamoms

- Web application is responsive in nature so it can work efficiently in any screen size.



References

- <https://nodejs.org/api>
- <https://docs.npmjs.com>
- <http://getbootstrap.com/docs/4.0/layout/grid>
- <https://reactjs.org>
- <https://reactjs.org/docs/introducing-jsx.html>
- <https://reactjs.org/docs/components-and-props.html>
- <http://getbootstrap.com/docs/4.0/content/typography/#unstyled>
- https://en.wikipedia.org/wiki/Single-page_application
- <https://redux.js.org/basics/usage-with-react>
- <https://reactjs.org/docs/animation.html>
- <http://expressjs.com>
- <http://mongoosejs.com>
- <https://www.sitepoint.com/using-json-web-tokens-node-js>
- <https://scotch.io/tutorials/authenticate-a-node-js-api-with-json-web-tokens>