

Software Requirements Specification (SRS)

Project Title: SB Foods – OrderOnTheGo: Your On-Demand Food Ordering Solution

Version: 1.0

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Prepared by: Syamala Kunapareddy

1. Introduction

1.1 Purpose

The purpose of this document is to define the software requirements for 'SB Foods – OrderOnTheGo', a responsive food ordering web application that simplifies the process of discovering, selecting, and ordering food online. It provides clarity for developers, testers, and stakeholders to ensure the system is built according to expectations.

1.2 Scope

This project aims to deliver an efficient, user-friendly food ordering platform supporting both customer and admin functionalities. It will allow users to:

- Browse available restaurants and menus
- View dish details, reviews, and offers
- Place orders with address and payment options
- Receive real-time order status updates

The admin can manage:

- Restaurant/dish listings
- Orders
- User data
- Promotions

1.3 Definitions, Acronyms, and Abbreviations

UI: User Interface

DB: Database

API: Application Programming Interface

SRS: Software Requirements Specification

SB Foods: Name of the food ordering app

CRUD: Create, Read, Update, Delete

2. Overall Description

2.1 Product Perspective

SB Foods is a standalone web application developed using the MERN stack (MongoDB, Express.js, React.js, Node.js). It is intended for desktop and mobile browsers.

2.2 Product Functions

****User Functions:****

- Sign up / Log in
- Browse and search dishes
- Add items to cart
- Checkout and make payment
- Track order status
- View previous orders

****Admin Functions:****

- Login
- Add/edit/delete products
- View/manage user orders
- View platform analytics

2.3 User Characteristics

End Users: College students, working professionals, late-night food seekers

Admin Users: Restaurant managers or system admins

2.4 Constraints

- Hosted on a single server
- Internet connectivity required
- Responsive design must be mobile-compatible
- Secure payment integration (placeholder for now)

2.5 Assumptions and Dependencies

- Payment gateway integration assumed to be third-party in the future
- MongoDB used for storing all backend data
- React Router used for frontend routing

3. Specific Requirements

3.1 Functional Requirements

[FR-01] Users must be able to register and log in securely.

[FR-02] Admin users will have a separate login.

[FR-03] Users should browse a categorized menu (e.g., Fast Food, Indian, Chinese).

[FR-04] Search functionality must support dish name, type, and keywords.

- [FR-05] Users can add dishes to a cart.
- [FR-06] Checkout process includes address and payment method input.
- [FR-07] Order confirmation must display summary and estimated delivery time.
- [FR-08] Admin can add/update/delete dishes.
- [FR-09] Admin can monitor and update order status.
- [FR-10] Admin can manage users and view analytics.
- [FR-11] Users will receive real-time order status updates.

3.2 Non-Functional Requirements

Performance: App should load within 3 seconds on standard broadband

Scalability: Designed to handle 1000+ concurrent users

Security: Passwords encrypted; API protected by JWT

Usability: Intuitive UI/UX for all user roles

Availability: 99.9% uptime expected during normal operations

3.3 Interface Requirements

****Frontend**:** React.js with pages for Login/Register, Home, Product Details, Cart, Checkout, Profile, Admin Dashboard

****Backend**:** Node.js with Express for RESTful APIs (/api/users, /api/orders, /api/products, /api/admin)

****Database**:** MongoDB with collections for Users, Products, Cart, Orders, Admin

4. Use Case: Late-Night Craving Resolution

Actor: Lisa (Student)

Scenario: Orders food at midnight

Trigger: Hunger during late-night study

Pre-condition: Lisa has an account and app access

Flow:

1. Lisa logs into the app
2. Opens the late-night delivery section
3. Selects items and adds to cart
4. Enters address & payment
5. Confirms order
6. Receives delivery and notification

5. Technical Architecture

[Frontend: React.js]

└─ Pages: Login | Menu | Cart | Checkout | Profile | Admin Dashboard

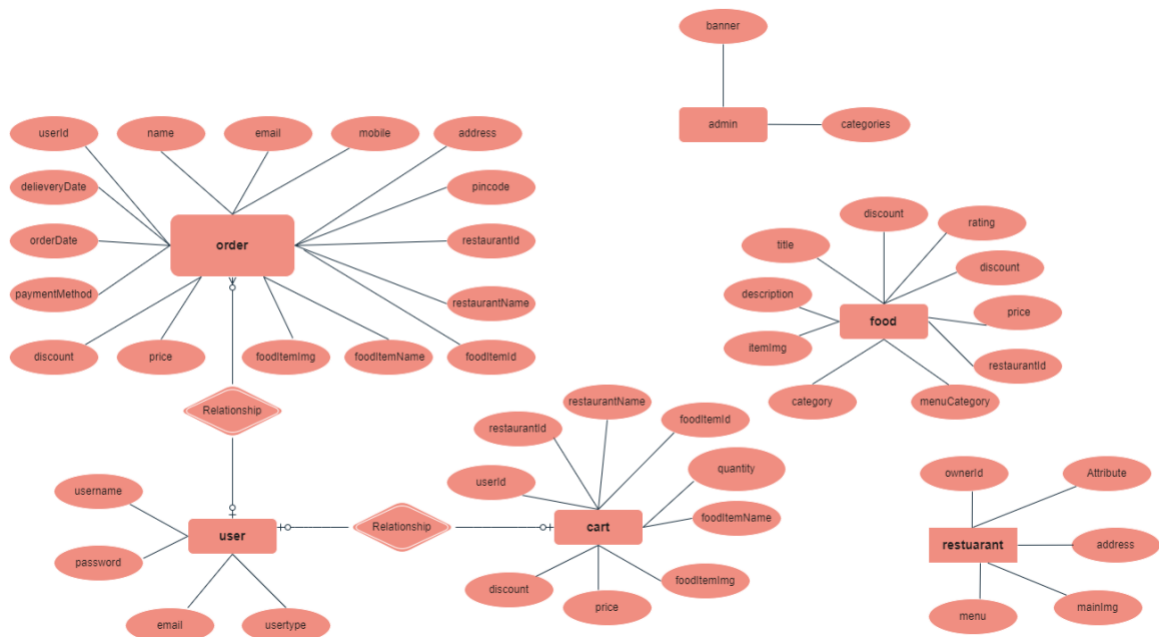
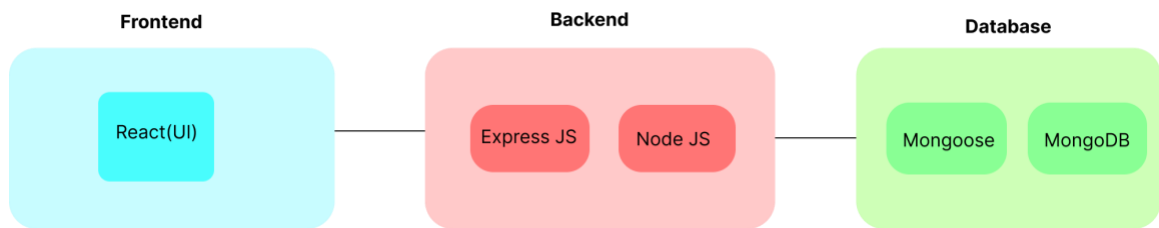


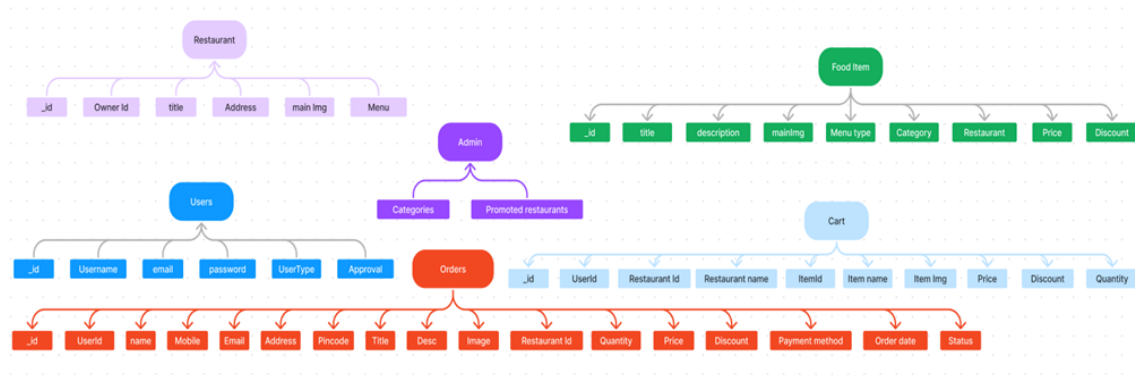
[Backend: Node.js + Express]

└─ APIs:
└─ /api/users
└─ /api/orders
└─ /api/products
└─ /api/admin

[Database: MongoDB]

└─ Collections:
└─ Users
└─ Products
└─ Orders
└─ Cart
└─ Admin





6. Appendix

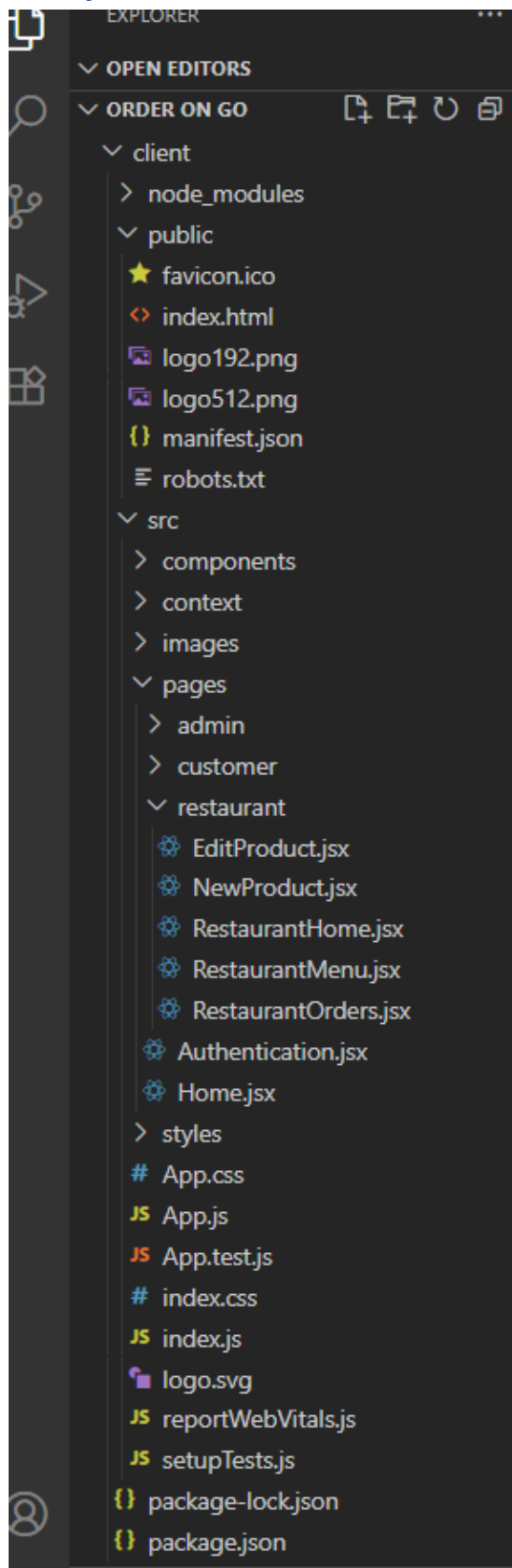
Technology Stack:

- Frontend: React.js7
- Backend: Node.js, Express.js
- Database: MongoDB
- Auth: JWT + bcrypt
- Hosting: (Future deployment - e.g., Vercel/Render + MongoDB Atlas)

Future Features:

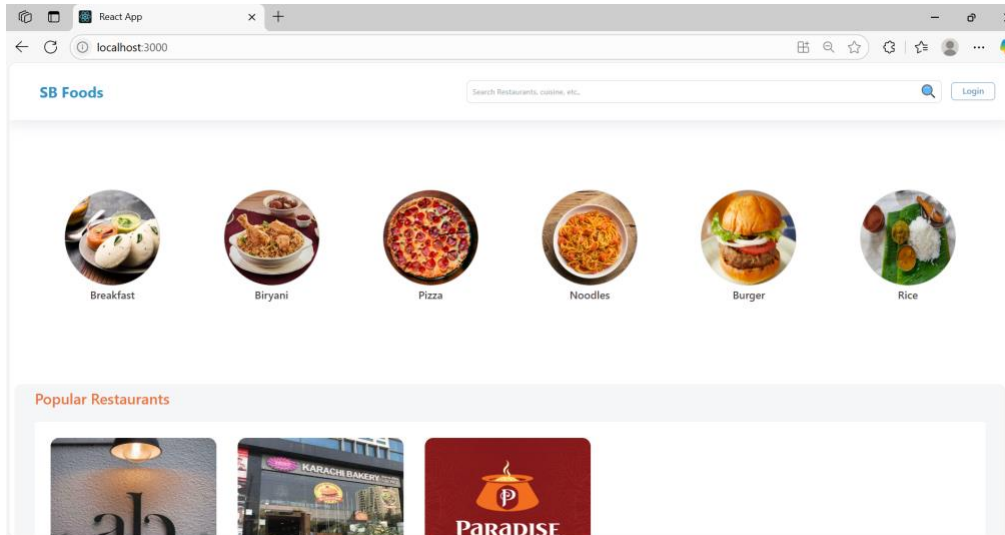
- Real-time delivery tracking
- AI-based dish recommendation
- Coupons & wallet system

7. Project Structure

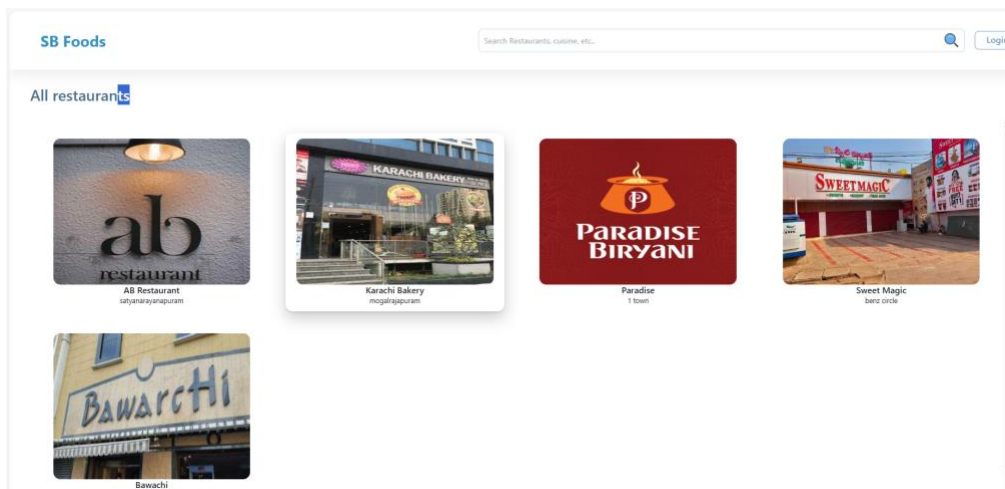


8.Screenshots

Landing page



Restaurants



Restaurant Menu

SB Foods

Search Restaurants, cuisine, etc.

Login

Filters

Sort By

☐ Popularity

☐ Low price

☐ High price

☐ Discount

☐ Rating

Food Type

☐ Veg

☐ Non Veg

☐ Beverages

Categories

☐ Biryani

☐ Cakes

☐ STARTER

☐ RICE

☐ ICE CREAM

☐ DRINKS

☐ CURRY

☐ ROTTI

☐ Noodle

☐ Pizza


☐ Burger

☐ Noodles


☐ Milkshakes

☐ Biscuits


☐ Breakfast




CHICKEN DUM BIRYANI
HYDRABADI STYLE...
₹ 240-300
[Add item](#)




MUTTON DUM BIRYANI
HYDRABADI STYLE...
₹ 400-480
[Add item](#)





FISH BIRYANI
SPICY...
₹ 500-590
[Add item](#)




PANEER BIRYANI
PURE VEG...
₹ 350-399
[Add item](#)









Authentication

Register

Username

Email address

Password

Password must be at least 6 characters, include an uppercase letter, a number, and a special character

Sign up

Already registered? [Login](#)

Login

Email address

Password

Sign in

Not registered? [Register](#)

User Profile

SB Foods

Home

Search Restaurants, cuisine, etc...

Bhavs


Username: Bhavs

Email: bhavs8@gmail.com

Orders: 3

Logout

Orders




CHOCOLATE MILKSHAKE

Karachi Bakery

Quantity: 2 Total Price: ₹ 460 ₹ 460 Payment mode: upi

Ordered on: 2025-06-28 Time: 02:59 status: order placed

Cancel



Vanilla cool cake


Karachi Bakery

Quantity: 1 Total Price: ₹ 350 ₹ 346 Payment mode: upi

Ordered on: 2025-06-28 Time: 02:59 status: order placed

Cancel

Cart




MUTTON DUM BIRYANI

Paradise

Quantity: 1 Price: ₹ 500 ₹500

Remove




PANEER BIRYANI

Paradise

Quantity: 1 Price: ₹ 150 ₹150

Remove



BUTTER CHICKEN CURRY

Paradise

Quantity: 1 Price: ₹ 340 ₹340

Remove

Pr

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Fir


Admin Dashboard

All Orders


SB Foods (admin)

[Home](#)
[Users](#)
[Orders](#)
[Restaurants](#)
[Logout](#)

Orders



status:



CHICKEN CHEESE BURST PIZZA

Karachi Bakery

UserId: 685e34d6f9dd1641799562a

Name: jam

Mobile: 123478962q2

Email: jam12@gmail.com

Quantity: 3

Total Price: ₹ 1300

₹ 1300


Payment mode: upi

Address: 20-243

Pincode: 521002

Ordered on: 2025-06-28 Time: 02:59

status:



MUTTON DUM BIRYANI

AB Restaurant

UserId: 685e349ae9dd16417995615

Name: sam

Mobile: 122345678

Email: ab@1gmail.com

Quantity: 1

Total Price: ₹ 400

₹ 400

Payment mode: card

Address: parasupet

Pincode: 521001

Ordered on: 2025-06-27 Time: 07:55


status:

All Restaurants


SB Foods (admin)

[Home](#)
[Users](#)
[Orders](#)
[Restaurants](#)
[Logout](#)


All restaurants




AB Restaurant
satyanarayanasapuram




Karachi Bakery
mogalajapuram



Paradise
1 town



Sweet Magic
benz circle



Bawarchi

Restaurant Dashboard

SB Foods (Restaurant)

HomeOrdersMenuNew ItemLogout

All Items

10

View all

All Orders

2

View all

Add Item

(new)

Add now

New Item

SB Foods (Restaurant)

HomeOrdersMenuNew ItemLogout

New Product

Product name

Product Description

Thumbnail img url

Choice

☐ Veg

☐ Non Veg

☐ Beverages

Category

Choose Product category

Price

0

Discount (in %)

0

Add product