ANGEL COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FOOD TRACKING SYSTEM

PROJECT SUBMITTED BY:

TEAM ID	NM2023TMID03895
PROJECT NAME	FOOD TRACKING SYSTEM
DATE	24/10/2023

REPORT-FOOD TRACKING

SYSTEM

FOOD TRACKING SYSTEM

ABSTRACT

The purpose of Online Food Ordering System is to automate the existing manual system by the help of computerized equipment’s and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

The Online Food Ordering System's main purpose is to maintain track of information such as Item Category, Food, Delivery Address, Order, and Shopping Cart. It keeps track of information about the Item Category, the Customer, the Shopping Cart, and the Item Category. Only the administrator gets access to the project because it is totally built at the administrative level. The project's purpose is to develop software that will cut down on the time spent manually managing Item Category, Food, Customer, and Delivery Address. It saves the Delivery Address, Order, and Shopping Cart information

1.1 INTRODUCTION

Online Tracking System is the process of ordering food from a website. The product can either be food that has been specially prepared for direct consumption (such as vegetables straight from a farm or garden, frozen meats, etc.) or food that has not been (such as direct from a certified homekitchen, restaurant). The effort to create an online food ordering system aims to replace the manual method of taking orders with a digital one. The ability to rapidly and correctly create order summary reports whenever necessary is a key factor in the development of this project.

The potential of an online food ordering system is enormous. Any restaurant or fast food chain can use this PHP project to keep track of customer orders. This project is simple, quick, and precise. There is less disk space needed. MYSQL Server is used as the backbone by the online food ordering system, eliminating the risk of data loss and ensuring data security. Customers have the option of either having the food delivered or picked up. A customer starts by selecting the restaurant of their choice, then scans the menu, picks an item, and then decides whether they want it delivered or picked up. Then, when picking up the food, you can pay with cash at the restaurant or with a credit card or debit card using the app or website. The customer is informed by the website and app about the food's quality, how long it takes to prepare, and when it will be ready for pick-up or delivery.

1.2 Overview

There are several good reasons to create an online food ordering application. There is a lot of demand, which is why so many restaurants are utilizing online ordering. Customers enjoy how convenient it is to purchase food online and have it delivered to their place of residence or workplace. By providing the services, you may maintain your competitiveness in the restaurant business.

1.3 Purpose

The management of the information regarding item category, food, delivery address, order, and shopping cart is the system's primary goal. It oversees the management of all customer, shopping cart, and item category information. Since the project was entirely developed on the administrative end, only the administrator is assured access. The goal is to develop an application program to simplify managing the food consumer item category. It keeps note of every delivery address requested.

1.4 Needs of Online Food Order

Helping customers in placing meal orders whenever they want. Customers will be able to order their preferred foods at any time, but as we've already mentioned, this is only a limited option. As a result, restaurants need to have a specific system in place that will allow them to serve a large number of customers while streamlining operations. One of the best platforms is ordering, which offers all of these services in addition to a host of cutting-edge features that have helped countless small and large enterprises establish themselves as market leaders.

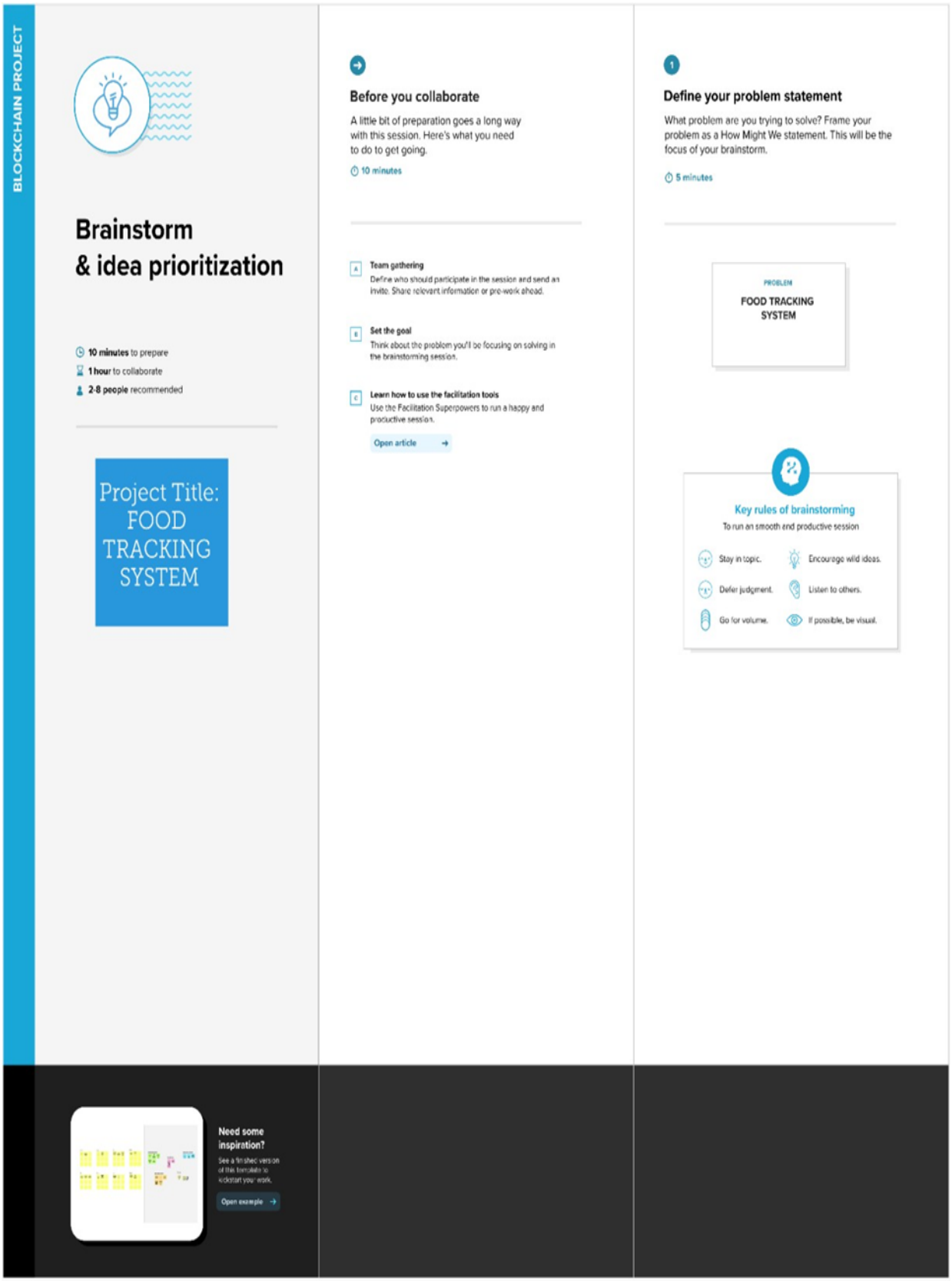
1.5 Functionalities

- Provides search options based on a variety of criteria. like Food Item, Customer, Order, and Order Confirmation.
- Online food ordering systems also manage payment information for order details, order confirmation details, and food items online.
- It keeps track of all the data regarding Categories, Payments, Orders, etc.
- Manage the category's details.
- Displays the food item's information and description for the customer. Easy to manage the Food Item, Category more effectively.
- It focuses on keeping track of order's data and transactions.
- Manage the food item's information.
- Improvements in editing, adding, and updating records lead to proper resource management of food item data.
- Manage the order's information by combining all Confirm Order data.

1.6 Problem Thinking and Design Thinking

Empathy map:

1.7 IDEATION AND BRAINSTORMING MAP:



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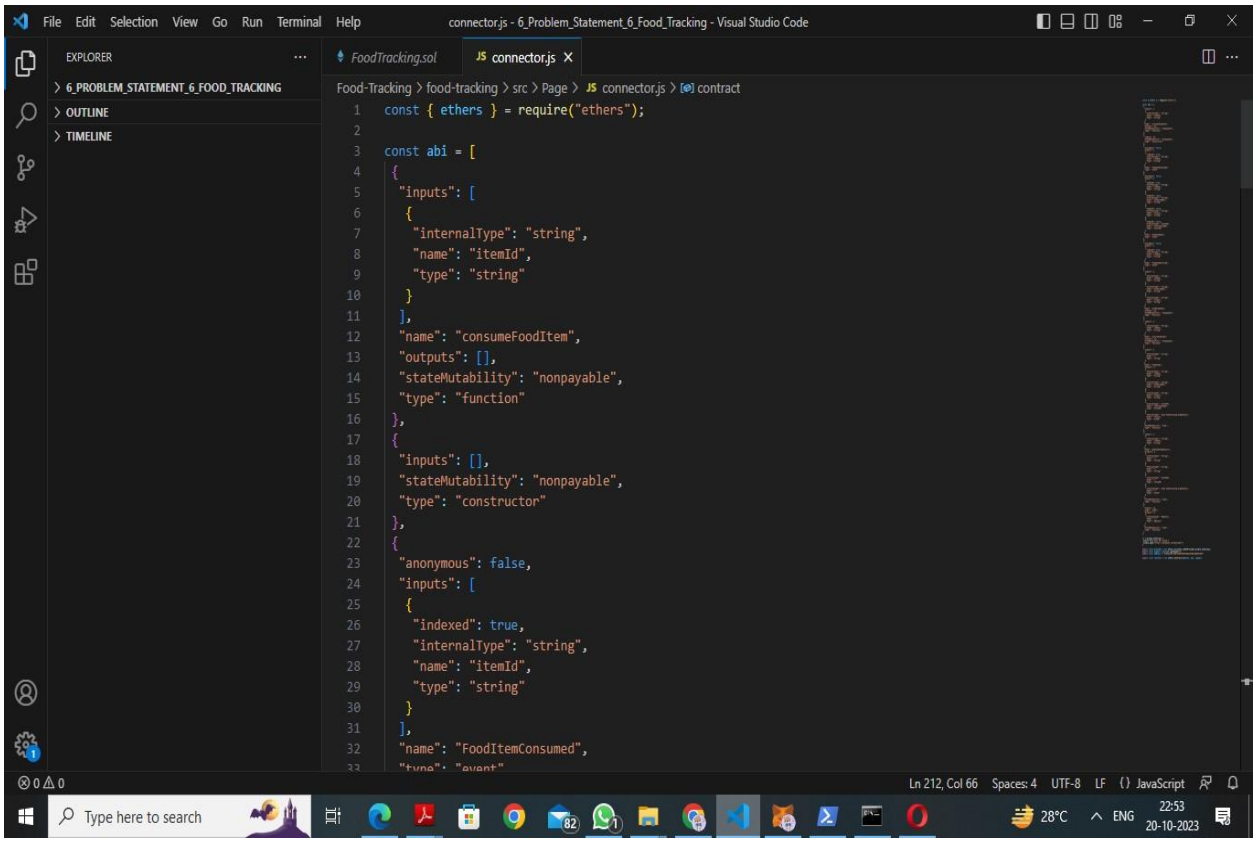
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connector.js - 6_Problem_Statement_6_Food_Tracking - Visual Studio Code
EXPLORER
6_PROBLEM_STATEMENT_6_FOOD_TRACKING
OUTLINE
TIMELINE
FoodTracking.sol
connector.js
Food-Tracking > food-tracking > src > Page > connector.js > contract
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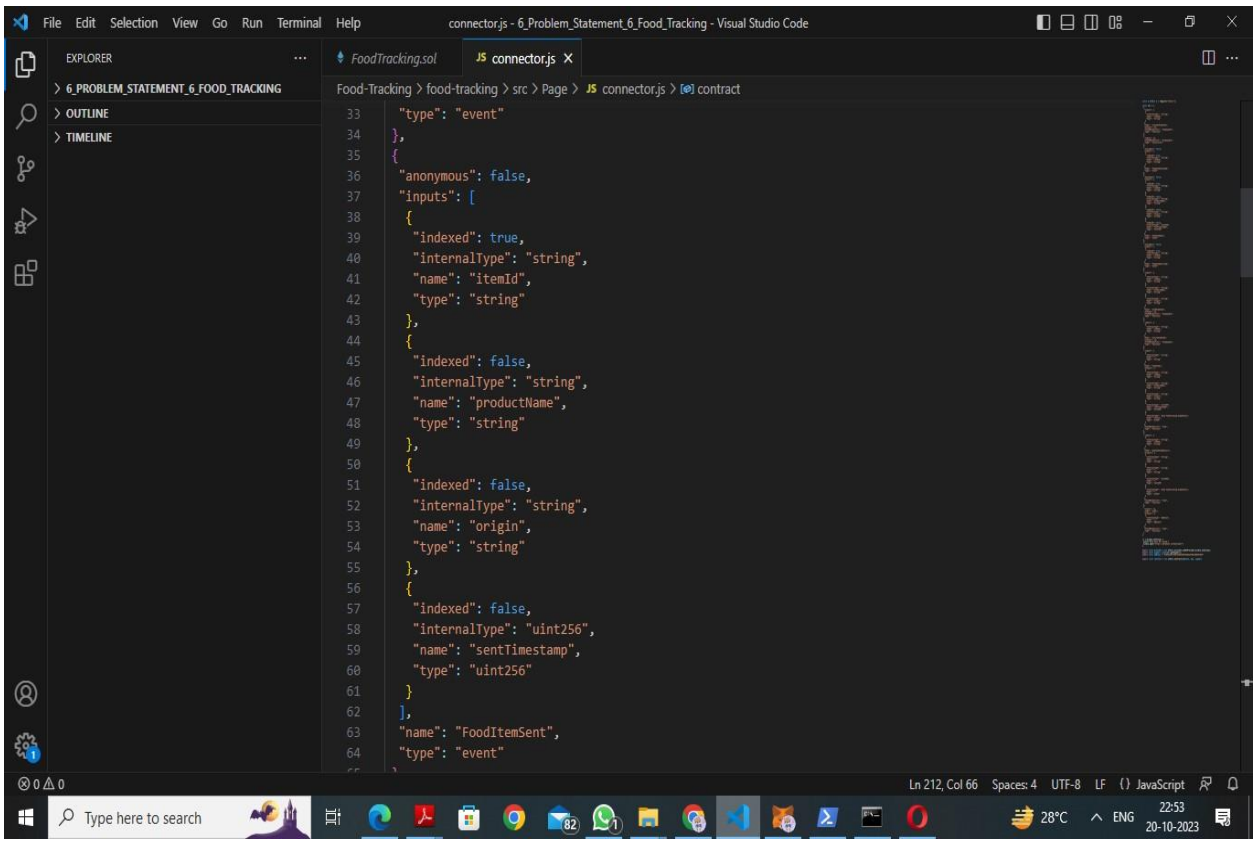
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6_PROBLEM_STATEMENT_6_FOOD_TRACKING
OUTLINE
TIMELINE
FoodTracking.sol
connector.js
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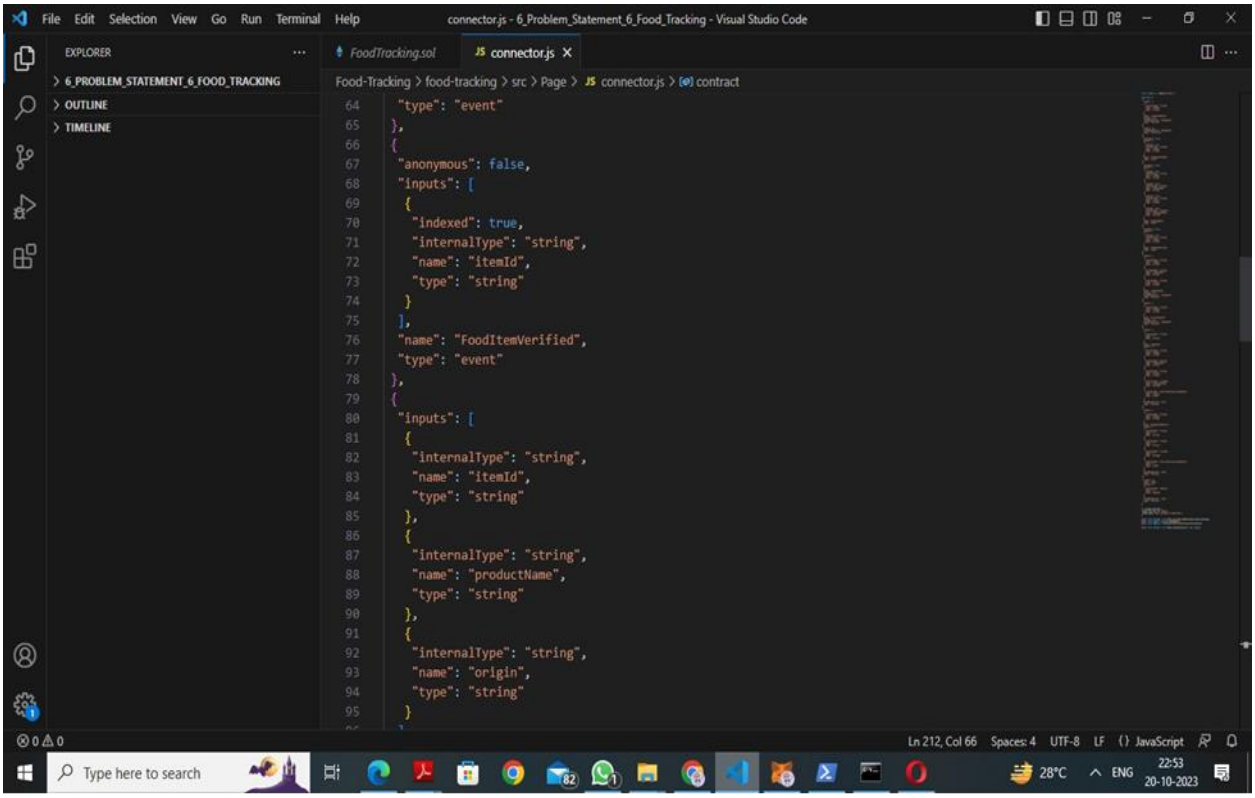
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OUTLINE
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FoodTracking.sol
connector.js
Food-Tracking > food-tracking > src > Page > connector.js > contract
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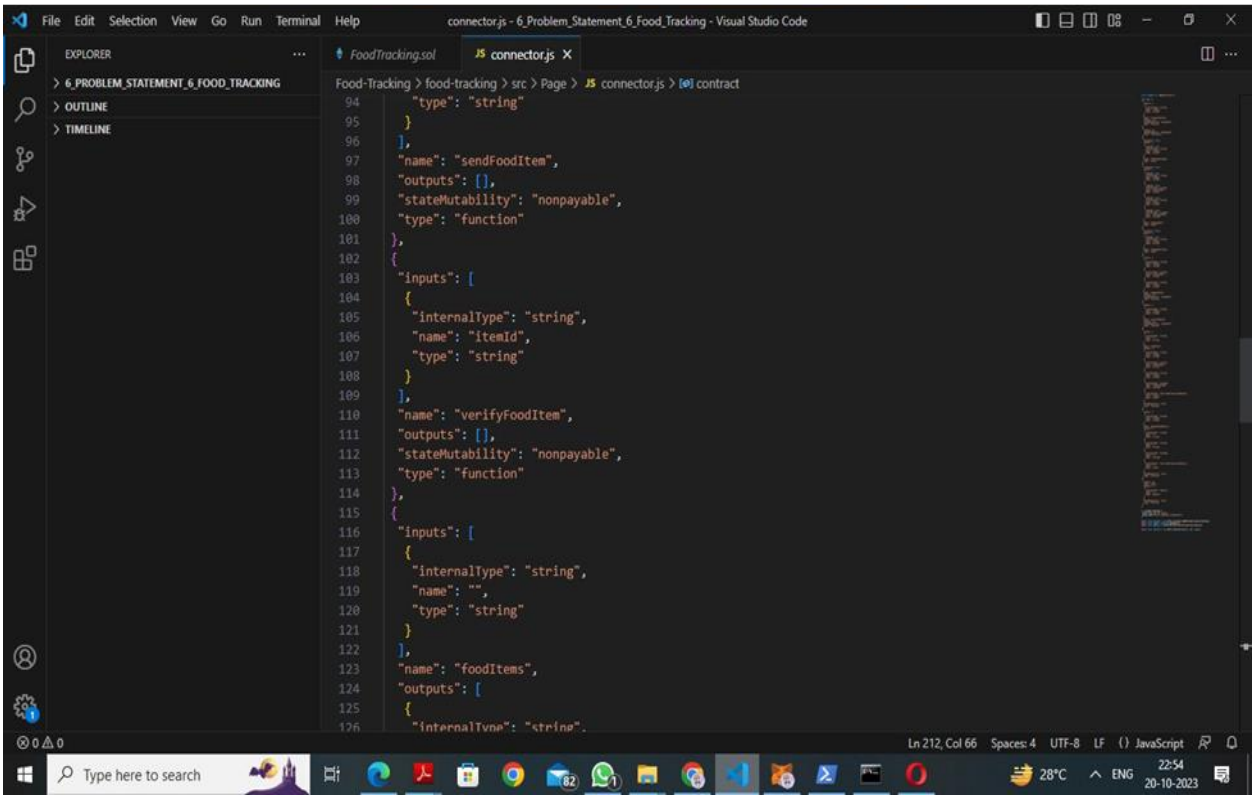
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FoodTracking.sol
connector.js
Food-Tracking > food-tracking > src > Page > connector.js > contract
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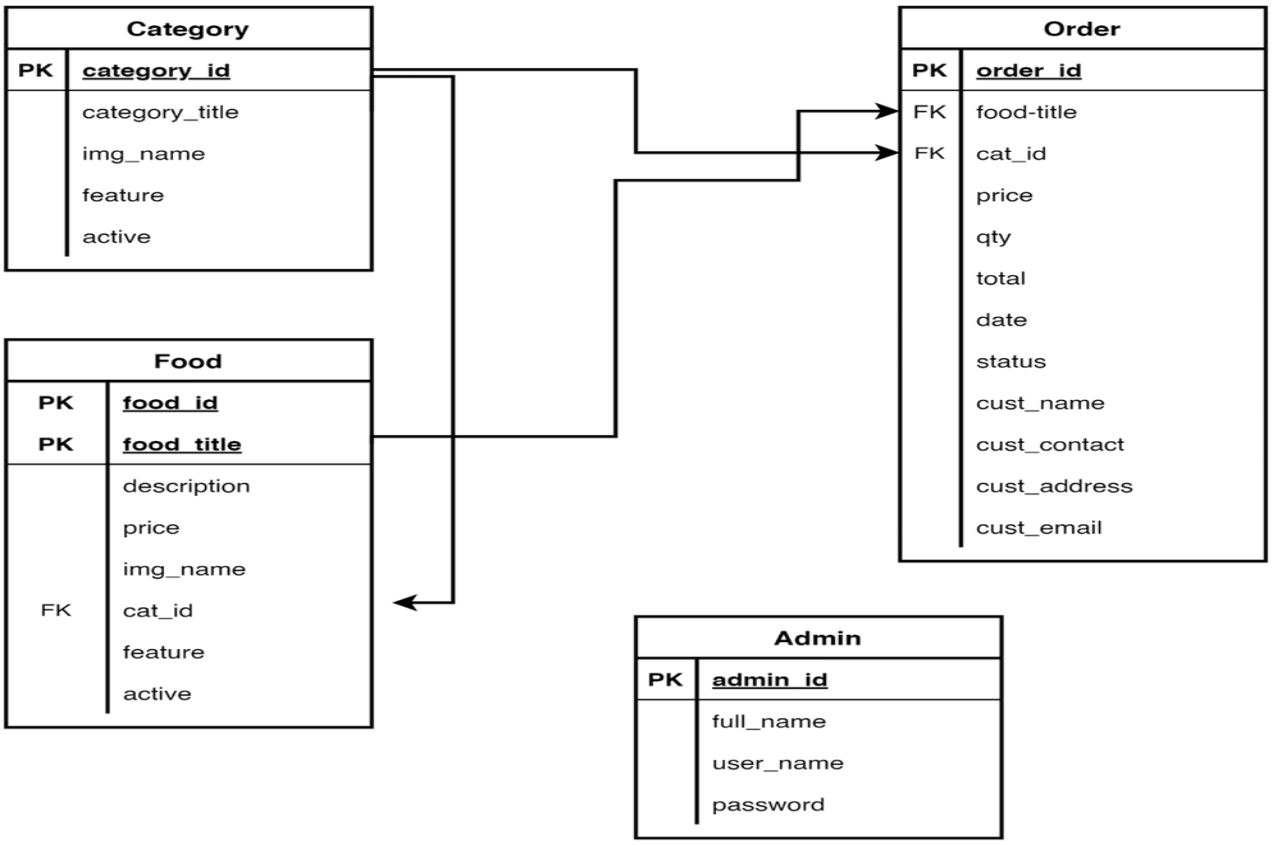
1.9 ADVANTAGES:

- It is quick, simple, and pleasant.
- Managing an online menu is easier.
- Access is only a click
- Less work for you.

2.0 DISADVANTAGES:

The system has certain other restrictions as well. There are only a few basic functions in the system's shopping cart, and it cannot be extensively customized. Additionally, practically all of the functionality of the application, including validation, is handled by server-side programming. It increases the server's workload, especially when a large number of users access the program. This issue can be resolved by using client-side languages, such as JavaScript or HTML 5, to check data. Additionally, the order model has been created.



2.1Application

- Restaurants, takeaways, and businesses that sell food to go profit from internet meal ordering software designed specifically for them. Customers like the ease of online meal ordering, which is why it is expanding quickly. Expand your sales channels by downloading our online food ordering application.

- Through this food ordering website, customers may place orders from their computers, tablets, and cellphones. They can look through your menu options, choose what they want, and submit an order online. Internet-based payment will also be accepted. Meals can be picked up in person or delivered to customers.

- There are many benefits to using an online food ordering app or a restaurant ordering app, including reduced labor expenses, fewer walk-away customers, and shorter wait times. This restaurant's online ordering system is intended for independent and multi-location chains that offer food to go, including eateries, fast food outlets, take-out, and other catering services. Putting your company online will enable you to generate a lot more revenue, which will enhance your marketability. Your online menu will give current clients a terrific new option to place orders, and new customers will easily find you thanks to well-known search engines. To complement the style and feel of your present website, the system is tailored. In the digital age, we help business owners grow their enterprises.

2.2 Conclusion

Restaurant Management System is a web-based technology that aids the restaurant industry in carrying out tasks effectively and efficiently. It aids in managing cash flow for managers. Managers can view analytics data to assess company growth. The manager can control orders and employee schedules by using this system. The full complement is a restaurant management system. It provides access to the Online Order platform, third-party connectors software, and comprehensive CRM solution, which together cover a sizable portion of your restaurant's requirements. They are not the outdated hardware and software sets for restaurants that were previously offered. They are the hottest things around, smooth, manageable, inexpensive, and quick.

In the "Online Food Ordering Project," we made every effort to meet all the demands of the restaurant. Because it is straightforward and adaptable, the project is successful. The biggest benefit of my project is that it draws plenty of users because of its simplicity. A novice user may operate it with ease. Any type of restaurant can utilize our software. By automating meal ordering, billing, and inventory control, the restaurant management system assists the restaurant manager in managing the restaurant more successfully and efficiently. The system handles the transaction and stores the data produced. These data will be used to create reports that assist the restaurant manager in making wise business decisions. For example, the manager can decide whether more waiters, delivery men, delivery carts, and cooks are needed based on how many clients will be present during a specific time period. When this project is finished, all security concerns will be resolved. Additionally, a quick and secure authentication process will be used for record maintenance. Because it automatically pulls information about a consumer from the database on subsequent visits, data entry is quick and easy. As a result, our program will undoubtedly succeed in replacing the antiquated manual way of storing secure information. The work plan also specifies the specific front end and back end characteristics of the technology being used in the project. Future project goals and its scope have been elaborated.

3.7.2 E-R Diagram

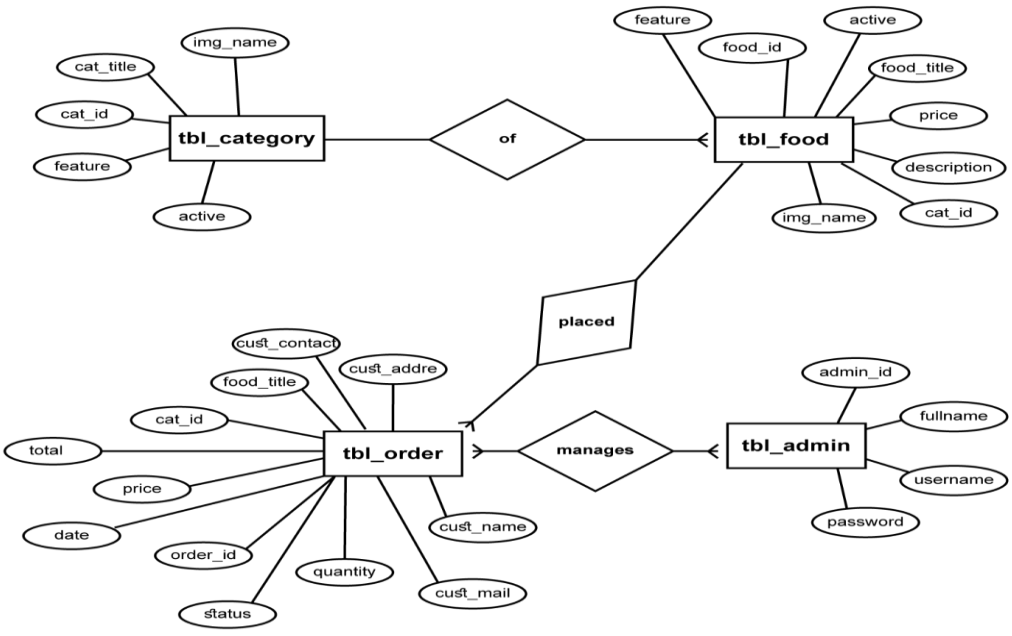


Figure 3.7.2.2 : E-R Diagram

2.3 FUTURE SCOPE

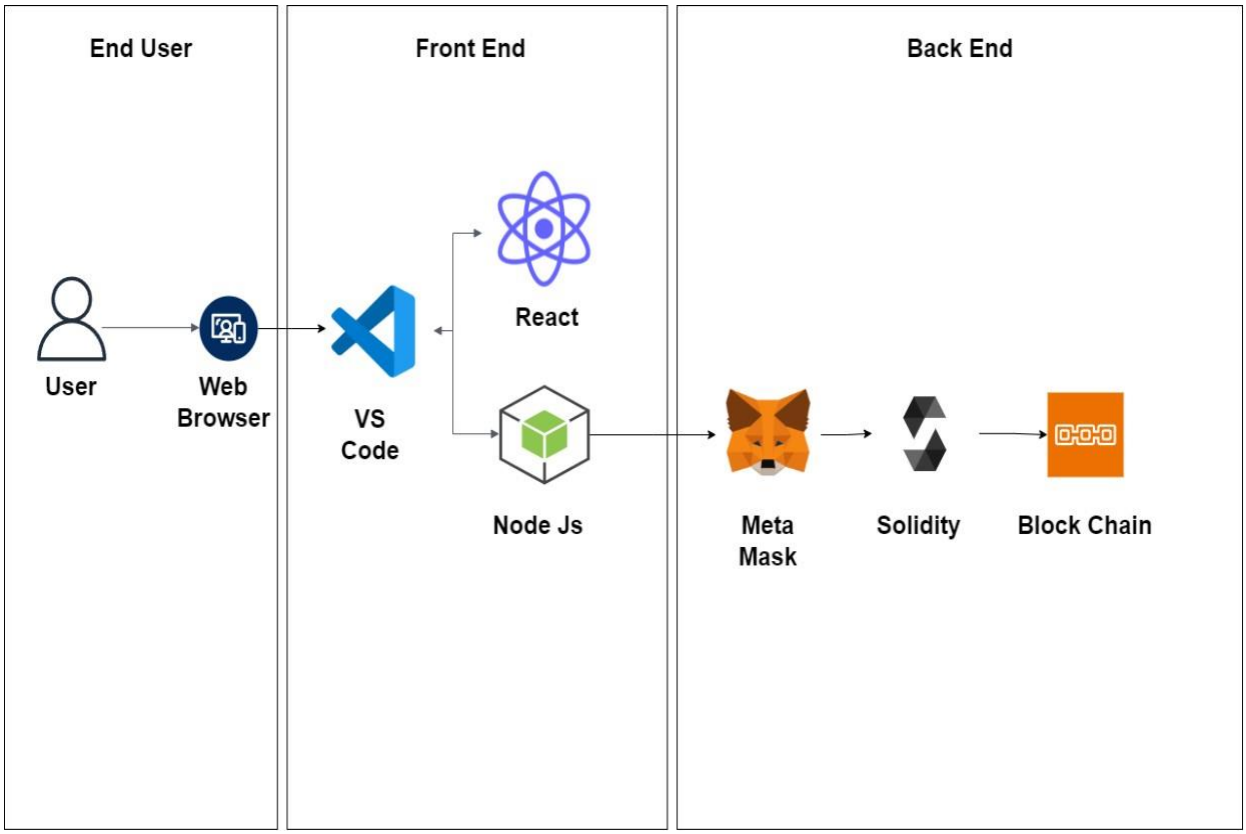
Each project should pay close attention to future development because it contains the system's most recent features. It lessens software issues and defects. It develops a close relationship with customers based on their comments or preferences. Developer will incorporate certain dynamic elements that are briefly described below into my restaurant management system.

Reporting module with real time mechanism.

- Modern architecture with smooth transitions.
- System for email and mobile confirmation.
- Selling Point

2.4 APPENDEX

SOURCE CODE:



FOOD TRACKING SYSTEM:

INPUT:

```
// SPDX-License-Identifier: MIT pragma solidity ^0.8.0;

contract FoodTracking { address public owner;

    enum FoodStatus {
        Unverified,
        Verified,
        Consumed
    }

struct FoodItem {
        string itemId; string productName; string origin; uint256 sentTimestamp;
        FoodStatus status;
    }

                                                    mapping(string => FoodItem)
public foodItems;

    event FoodItemSent( string indexed itemId, string productName, string origin,
                                    uint256 sentTimestamp
```

```
    );
    event FoodItemVerified(string
indexed itemId); event FoodItemConsumed(string
indexed itemId);



    constructor() {
        owner = msg.sender;
    }



    modifier onlyOwner() {
                                                                require(msg.sender == owner,
"Only contract owner can call this");
        _;
    }



    modifier onlyUnconsumed(string memory itemId) {
        require(
            foodItems[itemId].status == FoodStatus.Verified,
            "Item is not verified or already consumed"
        );
        _;
    }



    function sendFoodItem(
        string memory itemId, string memory productName, string memory origin
    ) external onlyOwner { require( bytes(foodItems[itemId].itemId).len gth == 0,
            "Item already exists"
        );
```

```
        foodItems[itemId] = FoodItem({ itemId: itemId, productName: productName,
            origin: origin, sentTimestamp:
block.timestamp, status: FoodStatus.Unverified
        });



                                        emit FoodItemSent(itemId,
productName, origin, block.timestamp);
    }
    function verifyFoodItem(string
memory itemId) external onlyOwner
{
        require(


bytes(foodItems[itemId].itemId).len
gth > 0,
                                          "Item does not exist"
        );
        require(
            foodItems[itemId].status == FoodStatus.Unverified,
            "Item is already verified or consumed"
        );
                                        foodItems[itemId].status =
FoodStatus.Verified;



                                                                emit FoodItemVerified(itemId);
    }



    function consumeFoodItem(
        string memory itemId
    ) external onlyUnconsumed(itemId) { foodItems[itemId].status = FoodStatus.Consumed;
```

```
        emit
FoodItemConsumed(itemId);
    }
                                    function getFoodItemDetails(
        string memory itemId
    )
        external view
                                                                returns (string memory, string
memory, uint256, FoodStatus)
    {
                                    FoodItem memory item =
foodItems[itemId]; return (item.productName,
item.origin, item.sentTimestamp,
item.status);
    } }
```

ABI CODE:

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