Dharmsinh Desai University, Nadiad
Faculty of Technology

Computer Engineering Department
B.Tech - Semester – VI

Subject: Web Services Development

Project Title: Food Dish Management System

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CERTIFICATE

This is to certify that the project work carried out
in the subject of
Web Services Development
is the bonafide work of

Amaliyar Himanshubhai Bhimjibhai (CE012) [20CEUTG127]

of B. Tech. Semester-VI Computer Engineering during the
academic year **2022-2023**.

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Abstracts :

The main objective of the project is to create a Food Dish management application that allows users to add Food Dish , to gets it's recipe . Users can add food dish name and food dish recipe and its photo and can also categorize food dishes. All the food dishes can be displayed to the user, which were created by the user earlier. Users will be able to update and delete the food dishes. The user also has the option to filter, sort.

Introduction :

The advancement in technology has made our lives easy like never before. Everything that we require is available at our fingertips. With just a click of a button, you can get access to multiple recipes within a second. Each recipe provides you with all the information, from the ingredients required to each step required to cook the different parts of the dish. These applications are generally used by people who want to try to make some new dish, or by people who live all by themselves, or by working people who are always short on time.

Technology Used :

- React
- C#
- Node
- SQL
- Bootstrap

Tools Used :

- Visual Studio Code
- Visual Studio Community 2019
- Microsoft SQL Server Management Studio

System Requirement Specification (SRS) :

Users of the applications :

    1.) Normal User

Functional Requirements :

1. Category :

    R.1.1 Add Category

    Description : User can Add Category for Food Dish.

    Input : Name of Category

    Output : Category will be added

    R.1.2 CRUD Operation in Category

    Description : Through this operation users can edit, delete, update departments.

2. Dish :

    R.2.1 Add Dish

    Description : User can Add Dish based on Category.

    Input : Name of dish, related category , recipe and image of dish.

    Output : Dish will be added

    R.2.2 CRUD Operation in Dish
    Description : Through this operation users can edit, delete, update employees.

**Non – Functional Requirements :**

N.1 Database :- A suitable data base management system that is secure and fast to manipulate data efficiently.

N.2 Maintaining Performance :- Good graphical user interface and good performance in network traffic and stress testing.
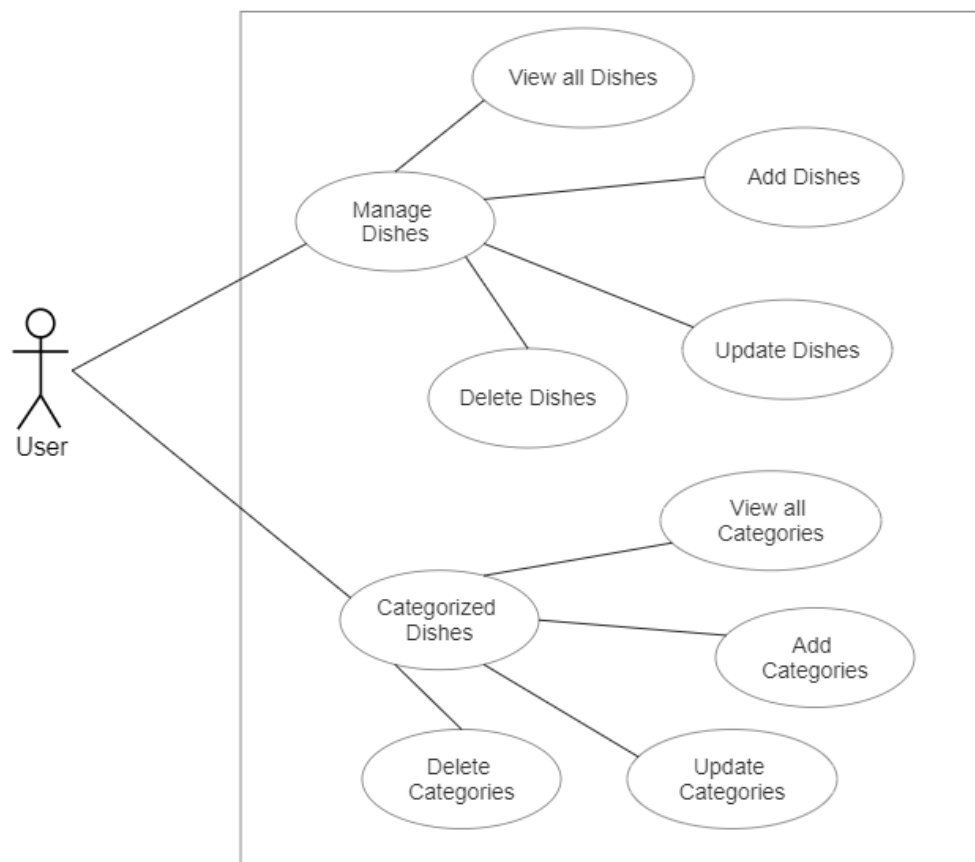

N.3 Security :- System ensure to preserve and protect information of user and manages the access-control activities at database level.

Design :

1.) ER-Diagram :
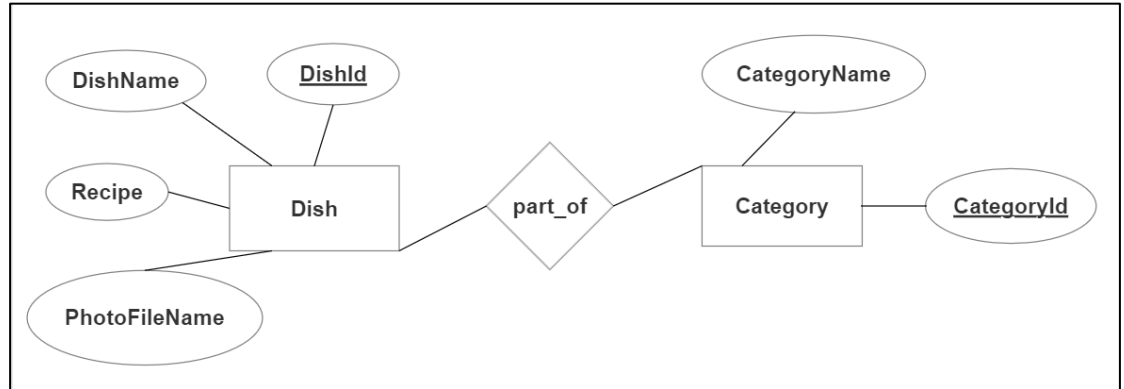
2.) Use Case Diagram :

Models :

1.) Dish Model :

Key (Column name)	Data Type	Constraints
DishId	Integer	Auto-increment
DishName	String	Required
Category	String	Required
Recipe	String	Required
PhotoFileName	String	-

2.) Category Model :

Key (Column name)	Data Type	Constraints
CategoryId	Integer	Auto-increment
CategoryName	String	Required

Implementation Details :

1)Dish Module :

This module saves all the details of the dish i.e. food item. When a new dish is added to the database . It also implicitly assigns ID to all dish . This module also allows you to get a list of all dish , update details of each dish and also delete dish from the database if it is required.

2)Category Module :

This module saves all the details of category when a new category is added to the database . It also implicitly assigns ID to all category . This module also allows you to get a list of all category , update details of each category and also delete category from the database if it is required.

Testing :

For testing the our application, a mixed approach integration testing and regression testing is used.

Integration testing :

Each main part of application is tested after each small small function is tested first and then combine them and test that main part.

Regression testing :

After main part of application is created, added them in the whole system, and then test the whole system that make sure the whole system is work fine after adding some main part.

Manual Testing :

Manual testing is used to find and fix the bug in our application.

| Sr No.	Test Scenario	Expected Result	Actual Result	Status
1	Add Category	Category Should be Added	Category Added	Success
2	Update Category	Category Should be Updated	Category Updated	Success
3	Delete Category	Category Should be Deleted	Category Deleted	Success
4	Add Food Dish	Food Dish Should be Added	Food Dish Added	Success
5	Update Food Dish	Food Dish Should be Updated	Food Dish Updated	Success
6	Delete Food Dish	Food Dish Should be Deleted	Food Dish Deleted	Success
7	Get Photo of the Dish along with its name and recipe	All details should be viewed perfectly in order	All details get viewed correctly	Success
8	Search of Food Dish by name	Food Dish with name entered should be viewed	Food Dish viewed Correctly	Success

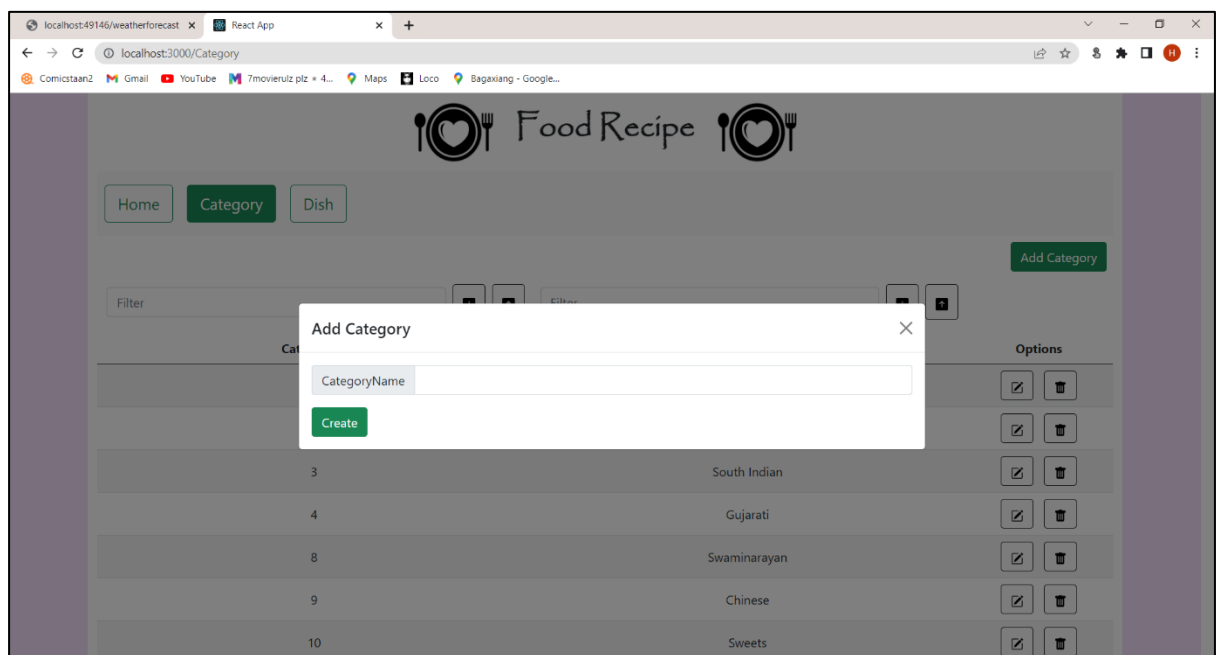**Screen Shots :**

1. Home Page :-
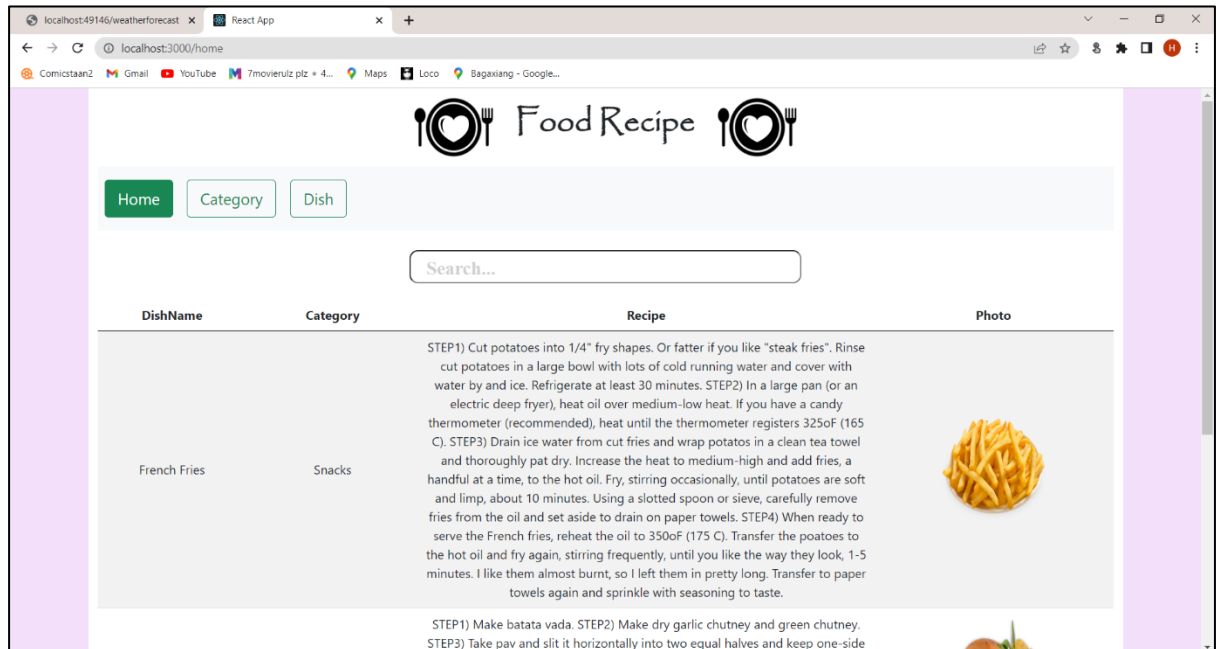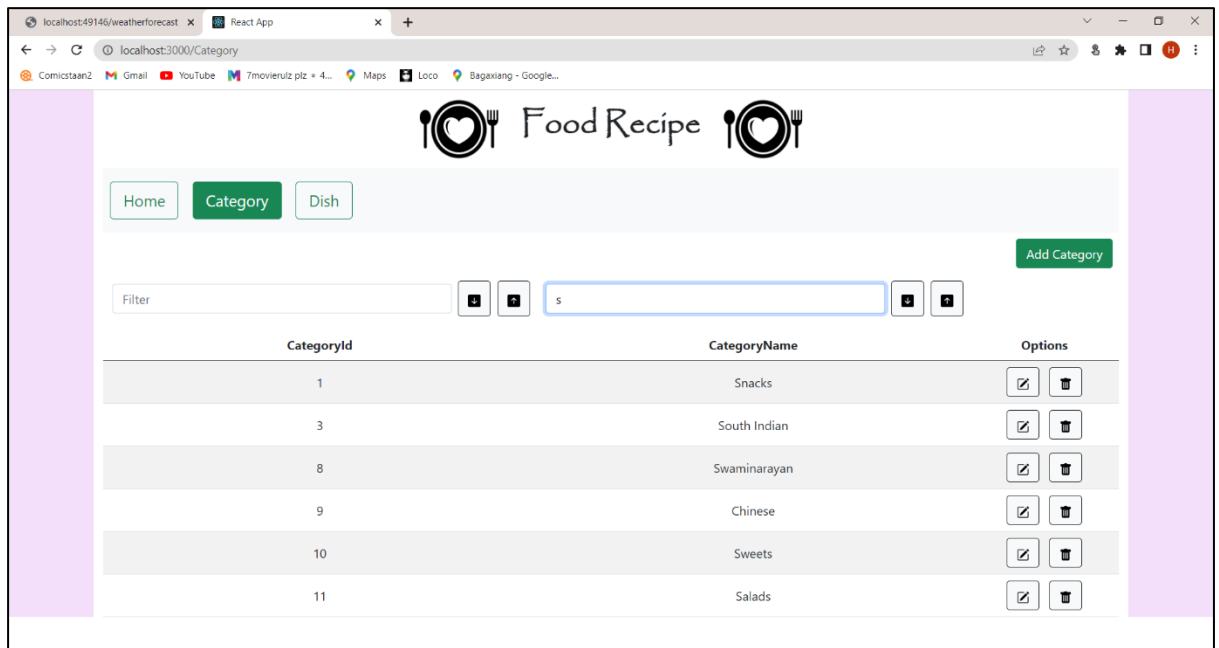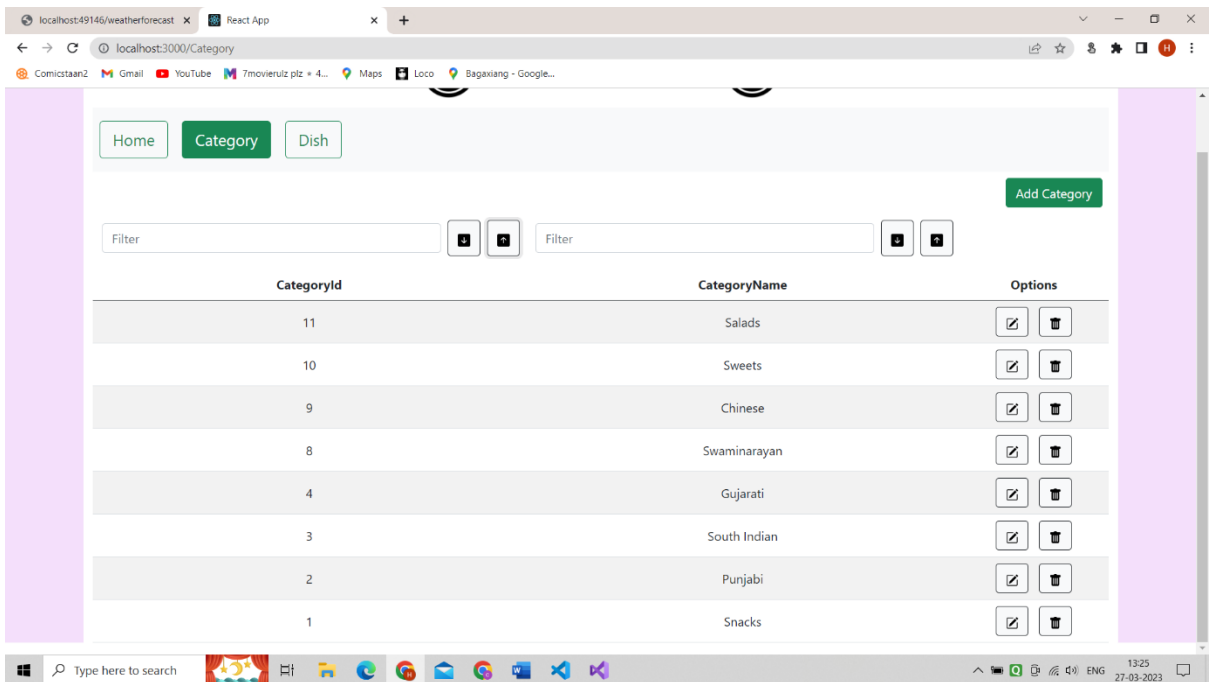

2. Category Page :-
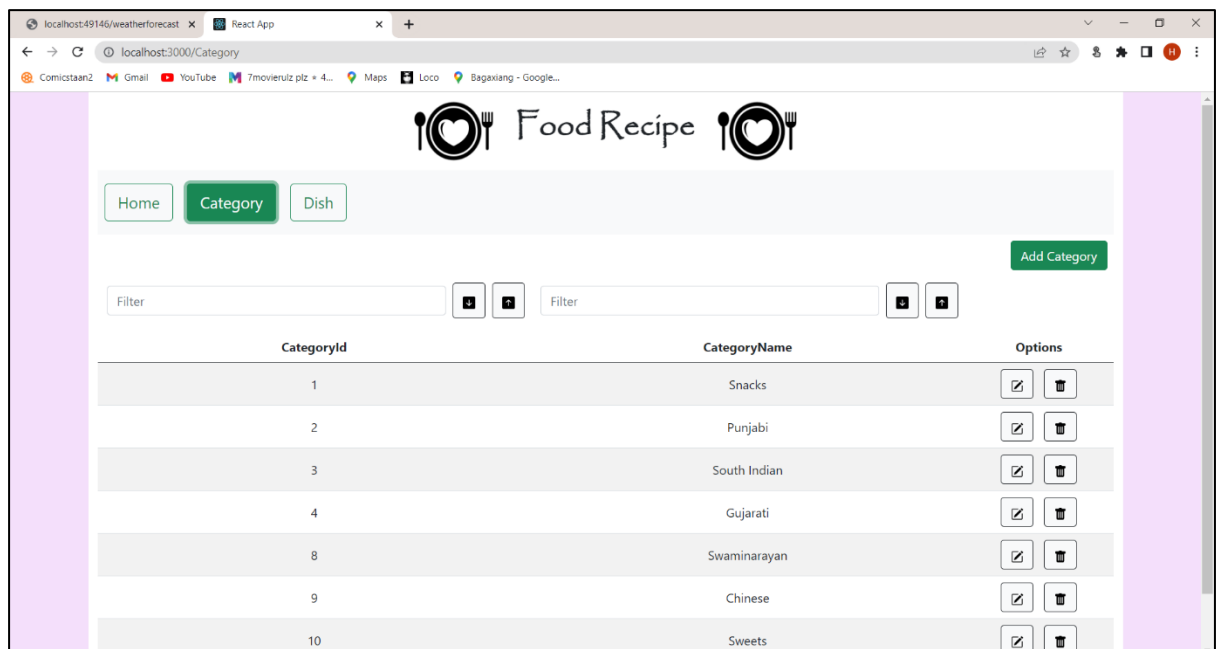
3. Dish Page :-
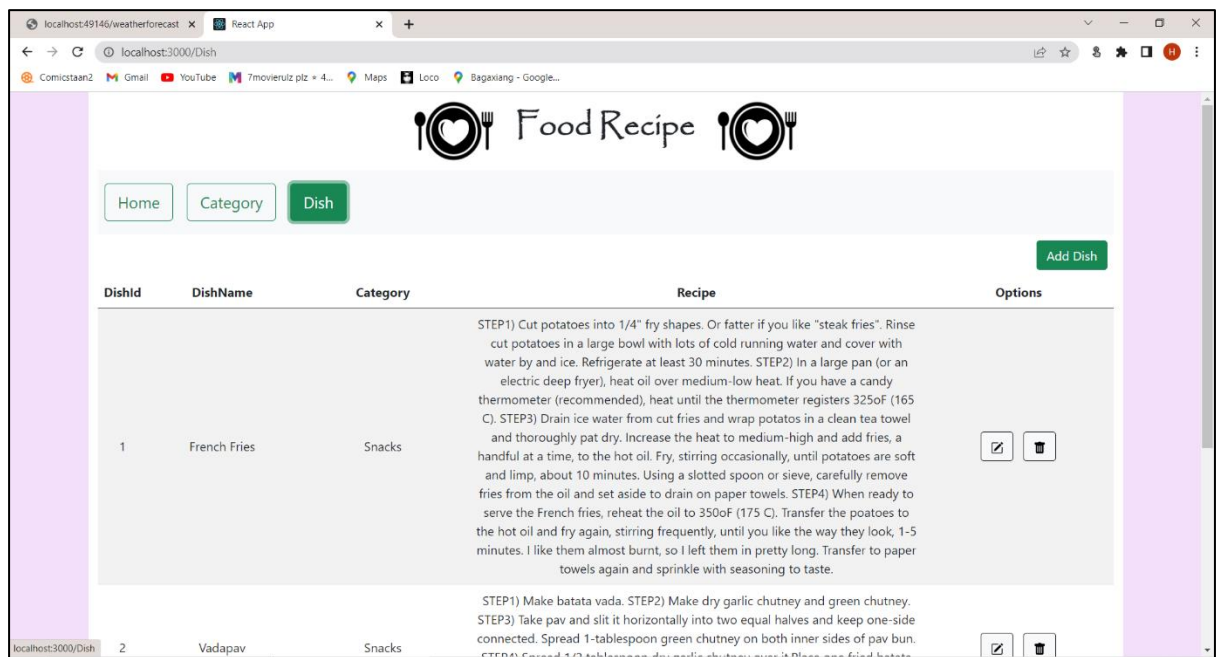
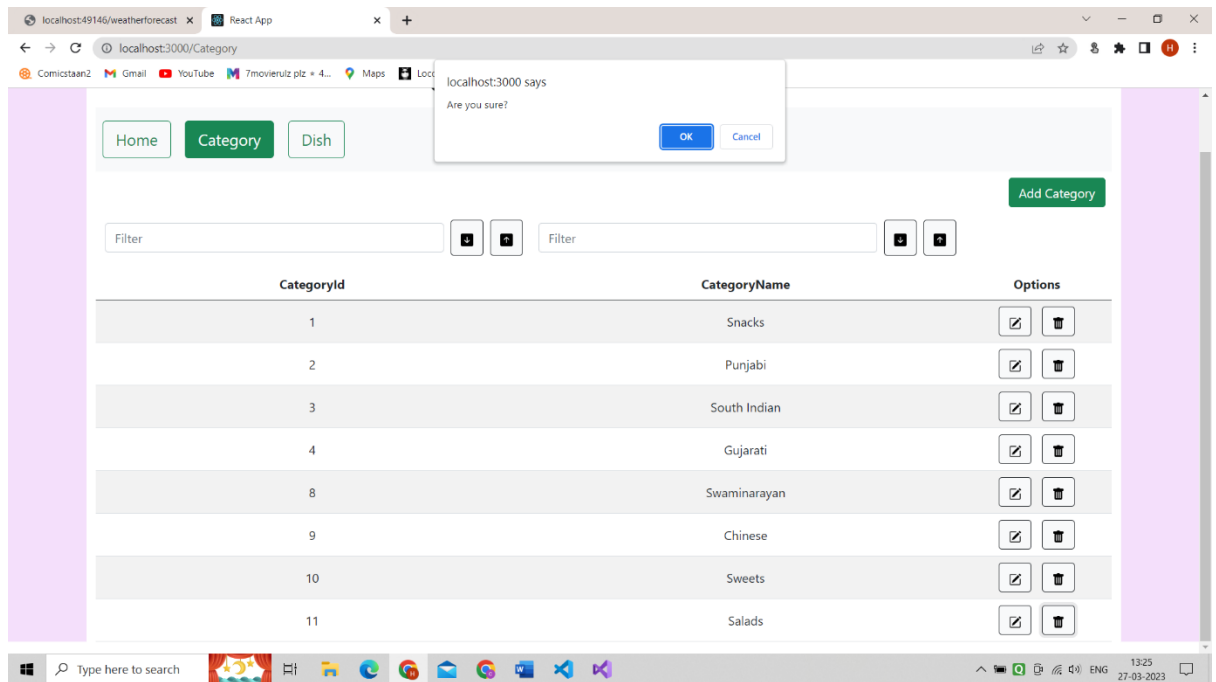## 4. Add category in Category Page :-
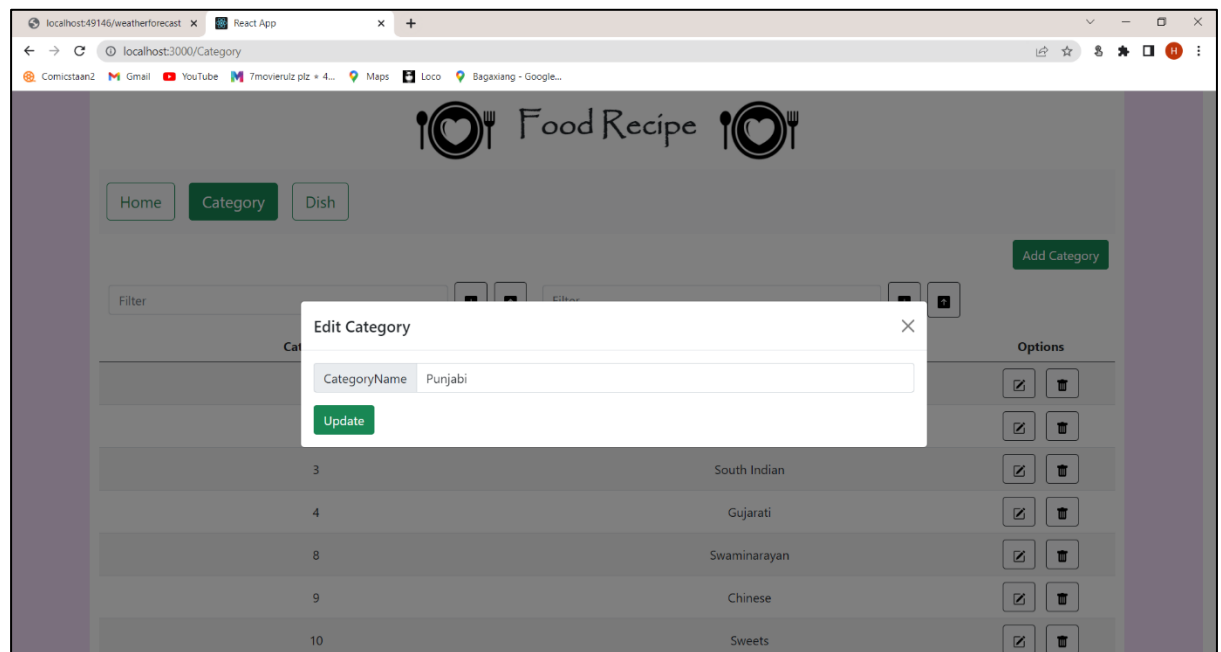
5. Search Filter in category Page :-

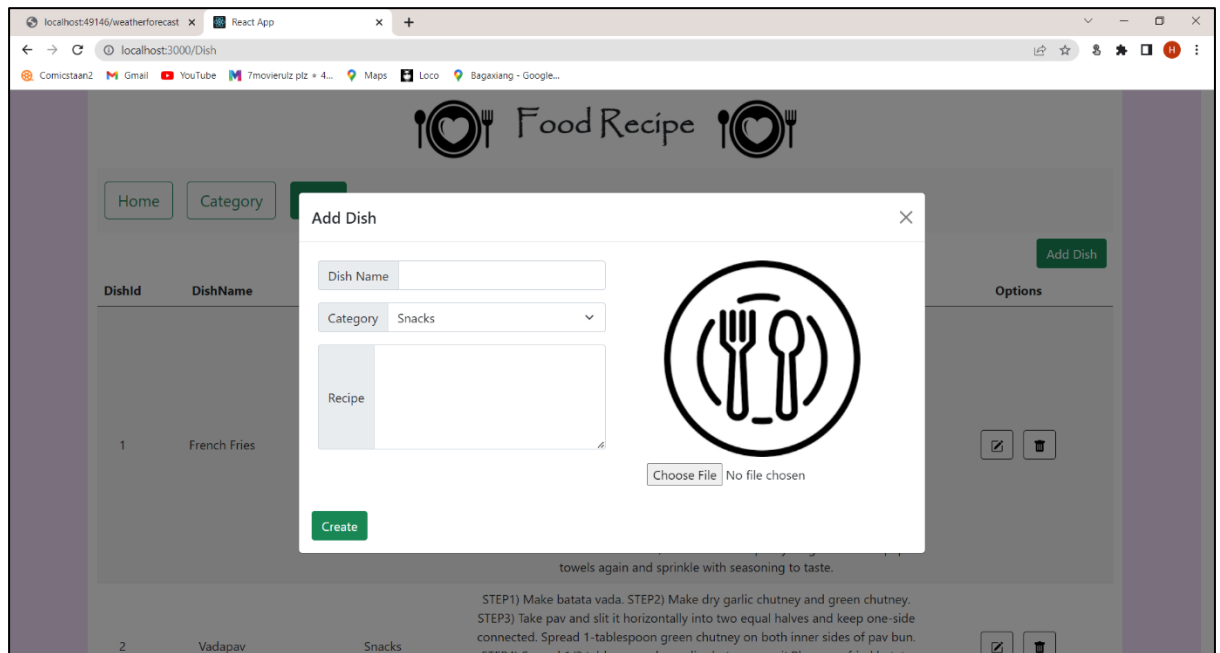## 6. Sorting of categories in Category Page :-

7. Delete category in Category Page :-

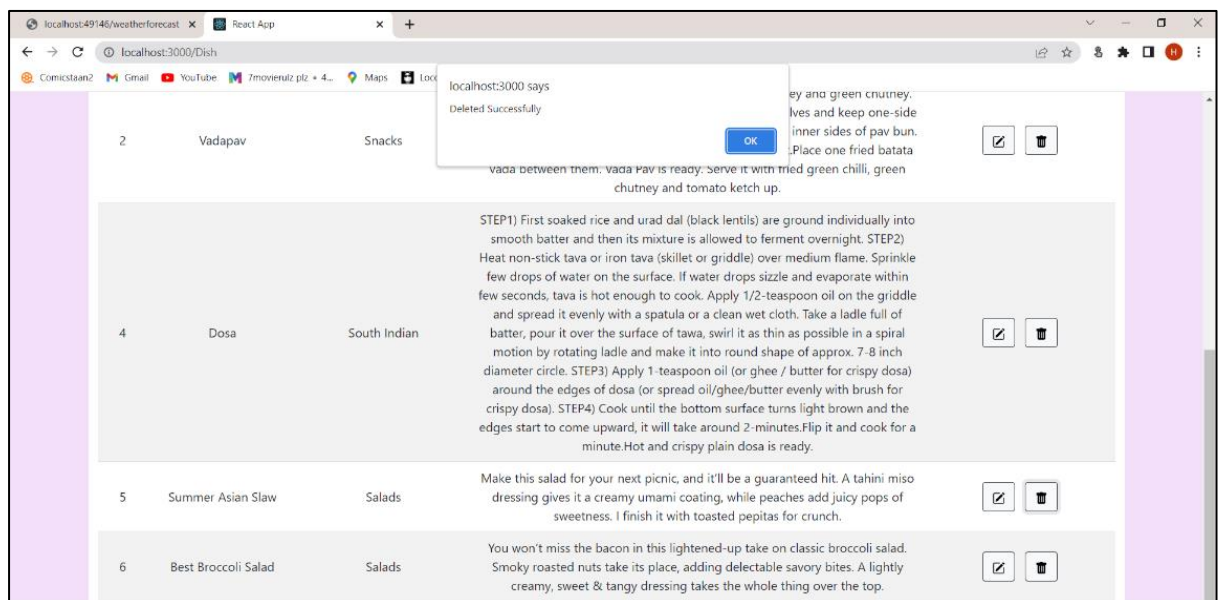# 8. Update category in Category Page :-
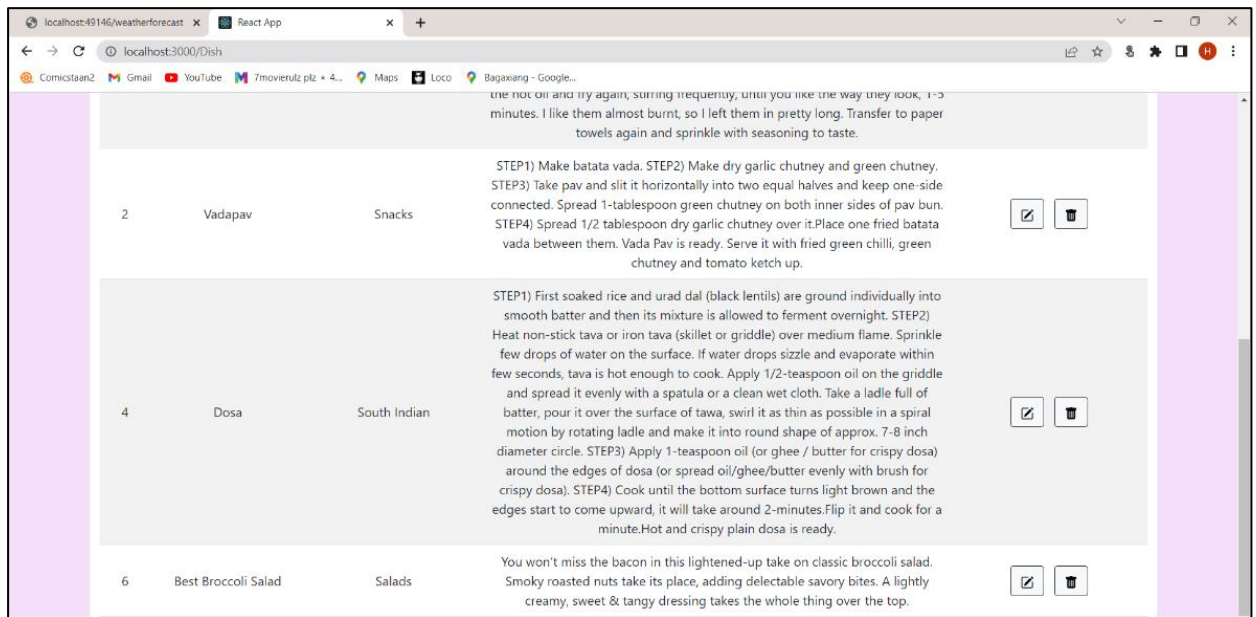
9. Add New Food Dish in Dish Page :-
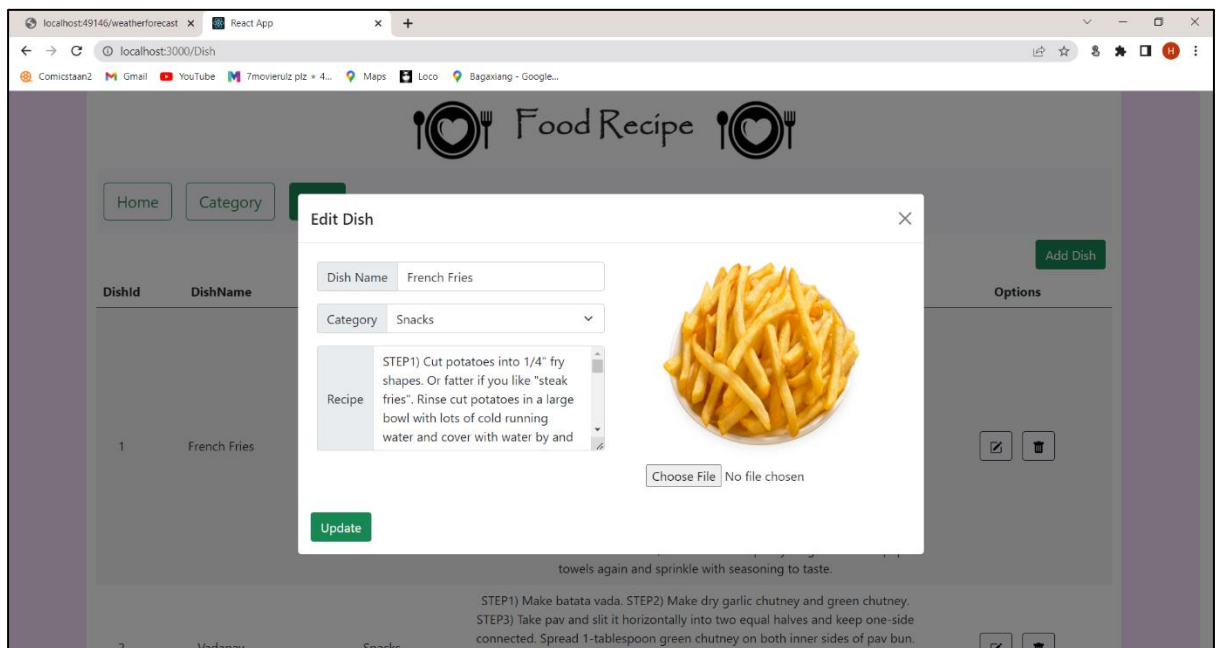

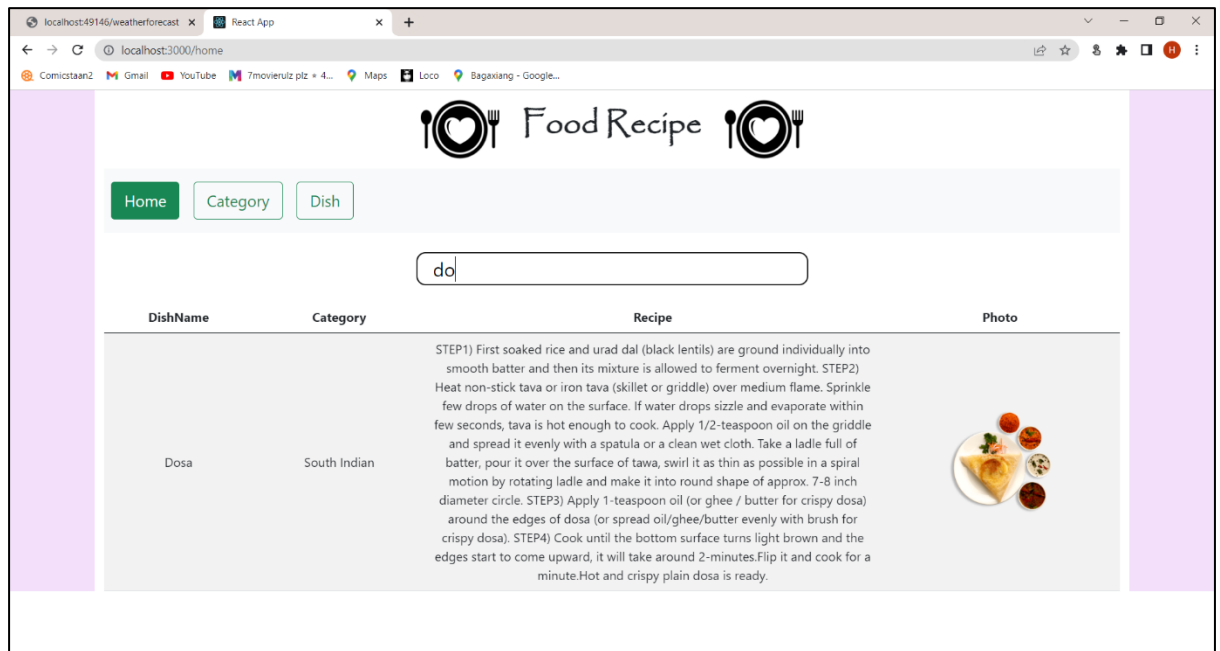## 10. Delete Food Dish in Dish Page :-

Before:

After:

11. Update Food Dish in Dish Page :-

12. Search Filter in Home Page :-

Conclusion :

The functionality are implemented in system after understanding all the thing Functionalities that are successfully added into the application are:

User functionality :-

1. Add a Dish i.e. Food Item
2. View all Dishes
3. Update a Dish
4. Delete a Dish
5. Categorize Dishes

After the implementation and coding of system manual testing was performed and on the system to determine the loopholes and possible flow in the system.

Limitations and Future Extension :

Limitations :

It is applicable to single user only ,because it doesn't provide any authentication of user feature. If a Dish i.e. Food Dish is deleted then it cannot be restored. It will not be stored in trash. No search history available.

Future Extension :

If a Dish i.e. Food Item is deleted , then it will be stored in trash instead of directly removing from the system. User see his search history.

Bibliogarphy :

1. For creating web api : Tutorial: Create a web API with ASP.NET Core | Microsoft Learn

2. Bootstrap : Bootstrap · The most popular HTML, CSS, and JS library in the world. (getbootstrap.com)

3. For error solving : Stack Overflow - Where Developers Learn, Share, & Build Career