



# CHRIST

(DEEMED TO BE UNIVERSITY)

BANGALORE · INDIA

## InstaChef

by

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A Project report submitted in partial fulfillment of the requirements for the award of degree of Master of Computer Applications of CHRIST (Deemed to be University)

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CERTIFICATE

*This is to certify that the report titled **InstaChef** is a bona fide record of work done by **Rachit Jigneshkumar Desai (2147225)**, **S Akshaya (2147256)**, and **Teyash Basu (2147259)** of CHRIST (Deemed to be University), Bengaluru, in partial fulfillment of the requirements of III Trimester MCA during the year 2022.*

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## ABSTRACT

The website InstaChef aims to solve the problem that many people, especially people who are not comfortable in the kitchen, face where they do not know what to do with the ingredients available in the pantry. InstaChef shows recipes where user can enter the ingredients that they have available with them. On entering the ingredients, the users are redirected to recipes along with instructions on how to prepare the recipes. Apart from this, this website allows the users to search by category such as their favourite cuisine or recipes that can be cooked easily.

The users can also request for recipe and this will be viewed by the administrator. The administrator will be able to add recipes, categories as well as the ingredients. The user will also be able to add ingredients to their shopping list if they do not have a specific ingredient used in the recipe with them. The users can also bookmark their favourite recipes as well as provide feedback of each recipe which is also viewed by the administrator.

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## 1. Introduction

### 1.1 Overview

People who live by themselves often do not know what to cook with the ingredients in their pantry. The proposed software ‘InstaChef’ strives to provide recipe ideas to such users. Categories of recipes on the basis of cuisine or the ease of preparation etc. will be visible on the homepage. Users will have the option to either look for recipes based on a category or based on available ingredients. Users will be asked to input ingredients available in their pantry and then recipes that meet the criteria will be displayed.

Users will be able to view the names of recipes without logging in, but to perform any operation such as reading the recipes or bookmarking their favorite recipes they should log in. If the user finds a recipe they like but does not have all the necessary ingredients, they will have the option to add ingredients to their shopping list. This functionality facilitates easy shopping for users.

Users will also have an option to request a recipe when the recipe for the specified food item is unavailable. These requests will be visible on the home page, and users can choose to respond to them by posting recipes. The recipe will be published on approval from the admin.

### 1.2 Existing System

FoodCombo, SuperCook, and MyFridgeFood are some of the existing websites for online food recipe generators.

#### 1.2.1 FoodCombo

**FoodCombo** recommends recipes and food pairings with ingredients users have in their fridge or pantry. It aims to reduce food waste. Users can select one or more ingredients from the list, and then all the ingredient combinations get displayed to make a dish. On

selecting a specific combo, all the related recipes are revealed. After choosing a recipe the website redirects the user to the website where the recipe was originally posted.

#### 1.2.2 Supercook

**Supercook** is a recipe search engine that allows users to search by ingredients they have at home. All the recipes that meet the criteria will be displayed. Users can also search by a specific dish name. On selecting a particular recipe, the cooking time, nutrition values, and servings are displayed along with the instructions.

#### 1.2.3 MyFridgeFood

**MyFridgeFood** is yet another online recipe management website similar to FoodCombo and SuperCook. Users have to select all the ingredients they have in their pantry, and recipes that meet the criteria will be displayed. Users can bookmark the recipes they like for future use as well as submit their recipes. The website also contains kitchen tips and a decider that randomly picks a recipe based on a few questions to be answered by the user.

### 1.3 Limitations of Existing Systems

1. The existing applications mentioned above focuses either on search by categories or only on recipe ingredients but not on both.
2. The existing application does not have any option to add to shopping list if the user likes a recipe and want to add the ingredients for future use.

### 1.4 Proposed System and Advantages

1. InstaChef aims to provide a facility to search by category as well as search by ingredients.
2. Our website facilitates adding of shopping list if the user likes a recipe and want to add the ingredients for future use.
3. Apart from these features, InstaChef allows users to look up recipe information and displays ingredients of the recipe.

## 2. Requirement Specification

### 2.1 Requirement Description

### **2.1.1 Login**

System must allow the admin to log in to the system. Users should also be provided with login credentials which must be used to log into the system. System must allow the user to perform operations such as bookmarking recipes or uploading recipes to the website.

### **2.1.2 Search by Category**

System must provide users with different categories which will be selected by the user. Once a category is selected, the user will be able to view recipes available in that specific category. Details of recipes, such as recipe name along with an image of the recipe will be displayed on the recipe cards.

### **2.1.3 Search by Ingredients**

System must provide the user with an option to input ingredients available and display recipes that meet the given constraints. Admin should be allowed to add ingredients as necessary.

### **2.1.4 Add ingredients to shopping list**

System must allow users to add ingredients in a recipe to a shopping list. System should then store these and enable the user to view the added ingredients in their respective shopping list page.

### **2.1.5 User profile**

Admin should store generic details of the users in their respective profiles. System should allow users to bookmark the frequently used recipes. Shopping list of users is also visible here.

### **2.1.6 Request Recipe**

System should allow users to request a recipe in the cases where the recipe is not available in the website. System should give the admin the ability to approve recipes posted before publishing to the website.

### **2.1.7 Rate and review a Recipe**

System should allow an user to rate and add review comments in the recipe. System should display these comments.

## 2.2 Analysis Modelling

### User Authentication module

The user must be able to sign into their account or sign up to create a new account as required. The correct credentials must by the user to be logged in or the user will have the ability to change their password. On logging in, user should be able to update their profile and view their bookmarked recipes.

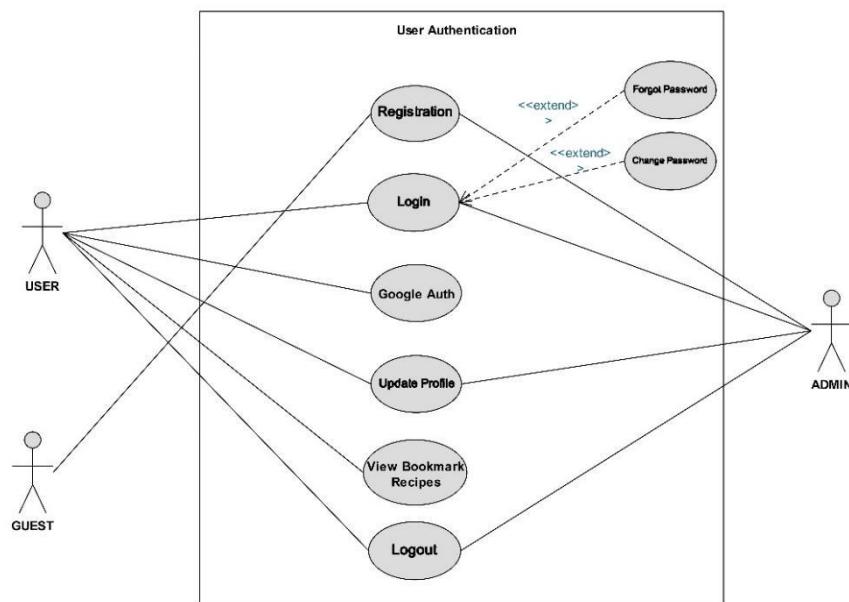


Fig 2.1

Recipe information module:

This module allows the user to view the details of recipe that has been clicked. The ingredients utilized in the recipe should also be displayed. The user should be able to add ingredients to the shopping list as well.

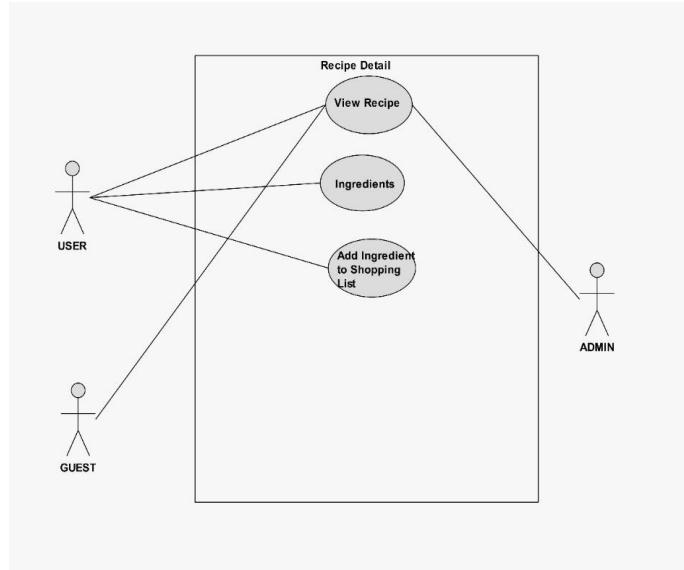


Fig 2.2

### Recipe Request module

The user must be able to request recipe that they do not find in the website. On filling the form with details such as recipe name, recipe type and category, the form is submitted and the information is stored in the database.

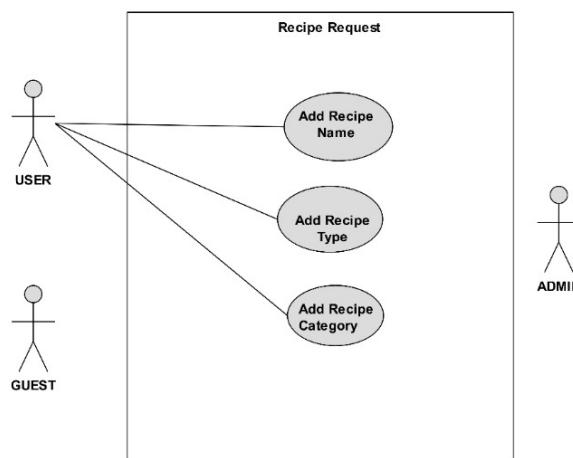


Fig 2.3

### Search module

The user should be able to enter the name of the recipe and then search for a particular recipe. The user can also select ingredients and search for a particular recipe as well as select category and view all the recipe that fall into the particular category.

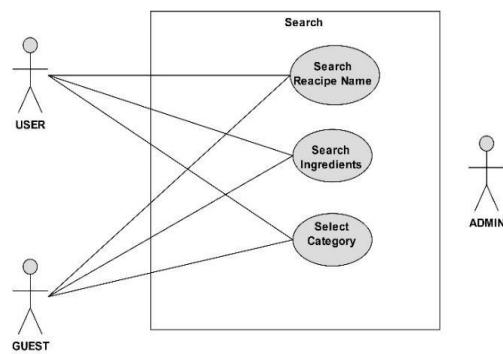


Fig 2.4

### Shopping List module

The user should be able to add ingredients to the shopping list and then this is stored in a database. The entered ingredients are then accessed by the user in the shopping list page and the ingredients can be added or removed as required.

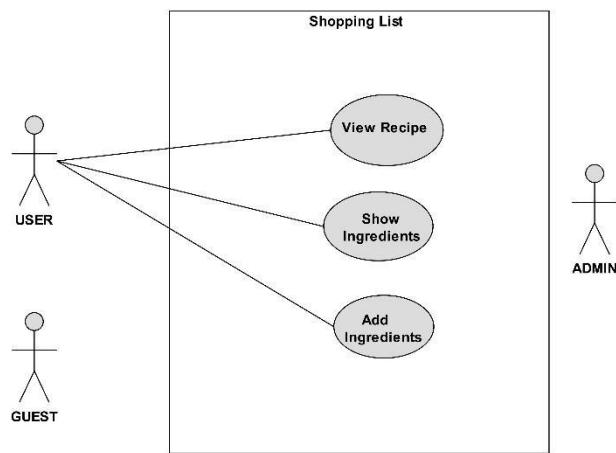


Fig 2.5

### 3. Detailed Design

### 3.1 Architectural Diagram

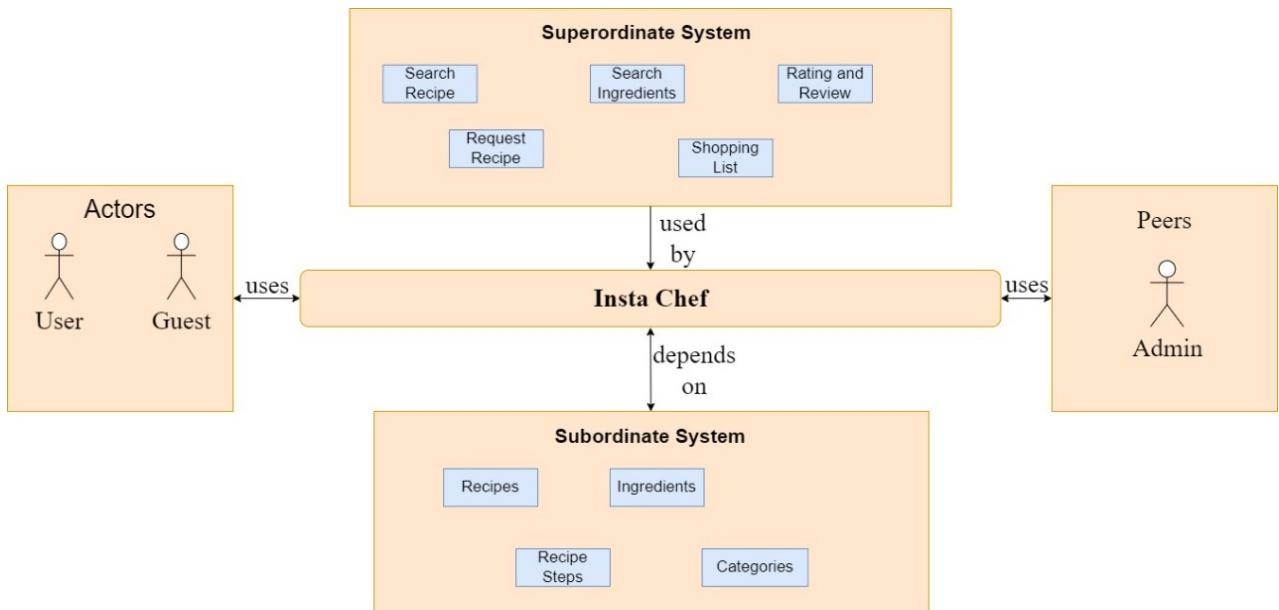


Fig 3.1

### 3.2 Entity Relationship Diagram

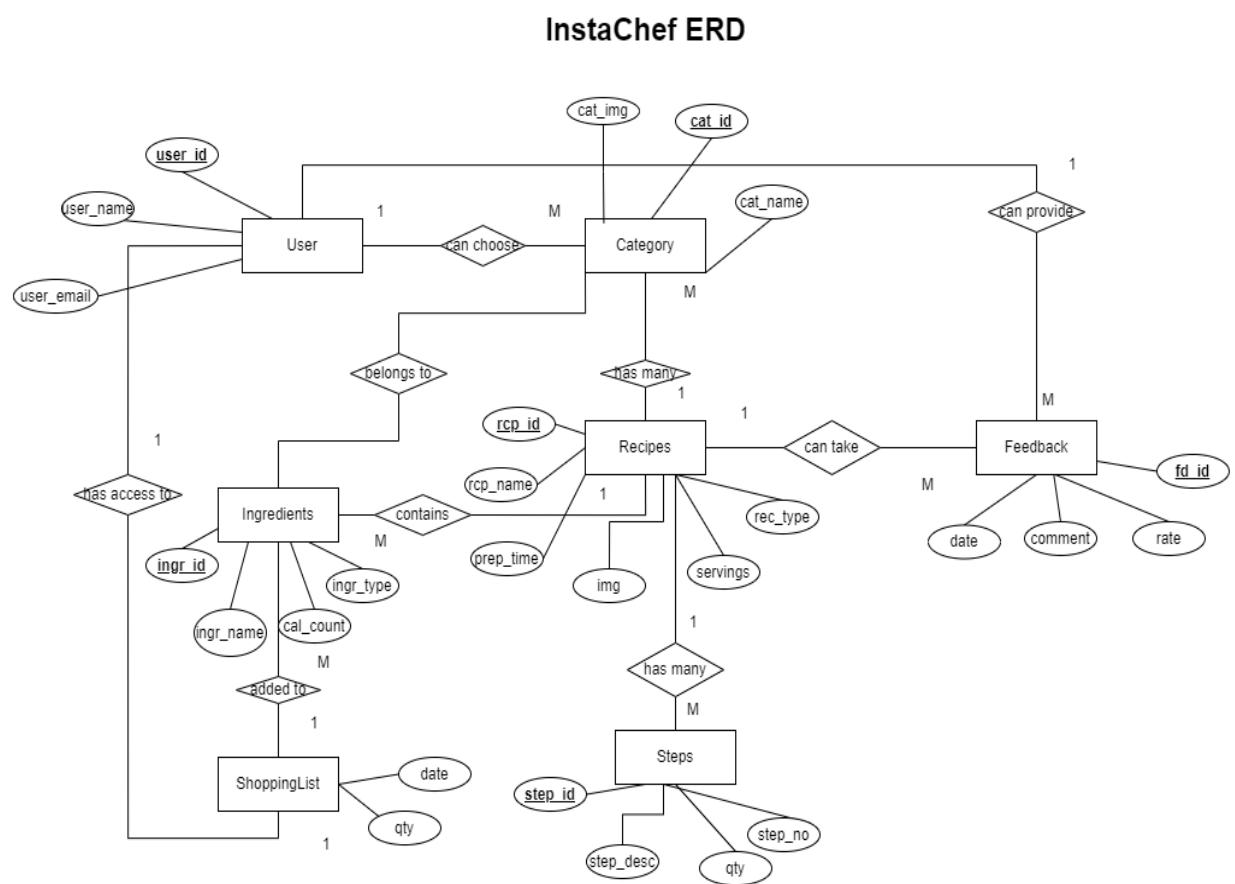


Fig 3.2

### 3.3 Relationship Schema

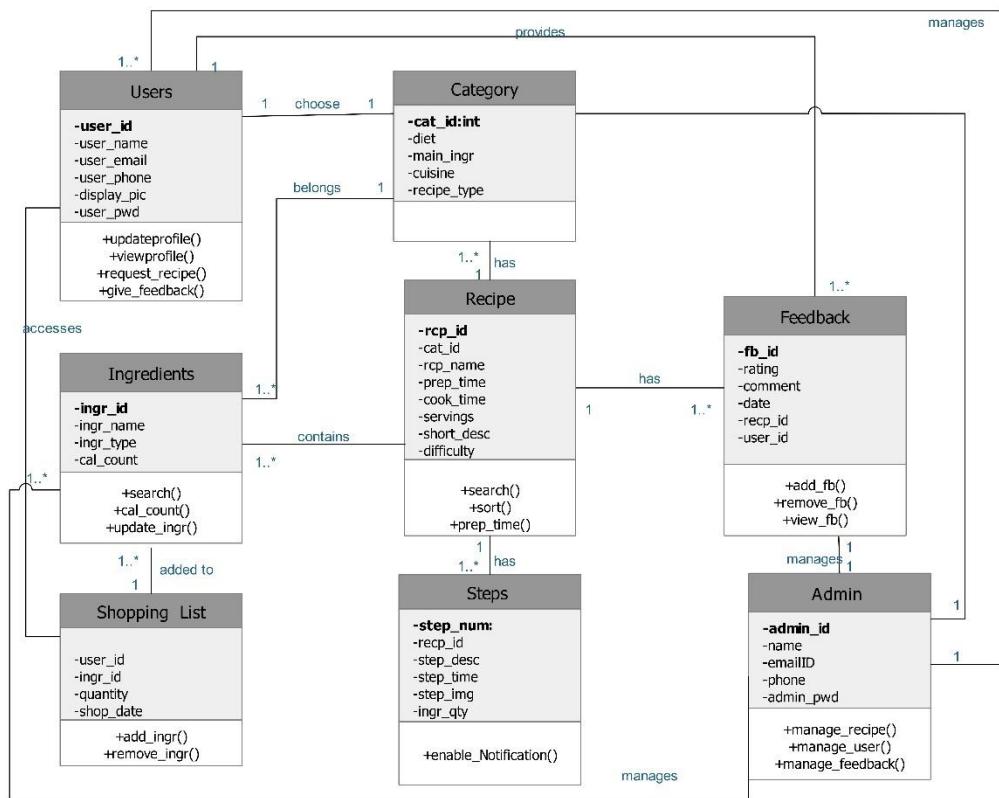


Fig 3.3

### 3.4 Table Description

## USER TABLE

Attribute	Data Type	Size	Constraint	Description
user_id	int	5	Primary key	User ID
user_name	Varchar	50	NOT NULL	Name of the user
user_email	Varchar	50	UNIQUE, NOT NULL	Email ID of the user
user_username	Varchar	100	NOT NULL	User name for login
user_pwd	Varchar	100	NOT NULL	Password

## CATEGORY\_DETAILS

Attribute	Data Type	Size	Constraint	Description
id	int		Primary key	Category ID
cat_name	Varchar	50	NOT NULL	Main ingredient of the recipe
cat_img	Varchar	50	NOT NULL	Cuisine type of the recipe

## INGREDIENTS

Attribute	Data Type	Size	Constraint	Description
id	int		Primary	Ingredient ID

			key	
ing_name	Varchar	50	NOT NULL	Name of the ingredient
ing_type	Varchar	50	NOT NULL	Type of Ingredient

## GET INGREDIENTS

Attribute	Data Type	Size	Constraint	Description
id	int		Primary Key	Get Ingredients ID
user_id	Varchar		Primary key	User ID
ing_name	Varchar	50	NOT NULL	Name of the ingredient

## RECIPE

Attribute	Data Type	Size	Constraint	Description
id	int		Primary key	Recipe ID
name	Varchar	50	NOT NULL	Name of the recipe
rec_type	Varchar		Foreign key	Recipe Type
prep_time	int	50	NOT NULL	Preparation time of recipe
serve_people	Varchar	50	NOT NULL	Number of people to be served
img	Varchar		NOT NULL	Image of the recipe
cat_name_id	Big Int	50	Foreign Key	Category name ID

## STEPS

Attribute	Data Type	Size	Constraint	Description
id	int		Foreign key	Recipe ID
step_no	int		Primary key	Step number
step_desc	Varchar	200	NOT NULL	Description of the step
qty	int	10	NOT NULL	Quantity of the ingredients used.
ingr_id	int		NOT NULL	Ingredient ID

## FEEDBACK

Attribute	Data Type	Size	Constraint	Description
id	int		Foreign key	User ID
feedback_id	int		Primary key	Feedback ID
rating	int		NOT NULL	Rating of the recipe
comment	Varchar	500	NOT NULL	Comment given for the recipe
date	Varchar			Date feedback is given

## REQUEST RECIPE

Attribute	Data Type	Size	Constraint	Description

		e		
id	int		Primary Key	User ID
Recipe name	Varchar	50	NOT NULL	Name of the recipe to be requested.
Recipe type	Varchar	50	NOT NULL	Veg/Non-Veg/Vegan is entered by the user.
Category type	Varchar	50	NOT NULL	Category of the recipe

### 3.5 Interface Design

[Index page](#)

**InstaChef LOGO**

**Search Bar**

**Request Recipe** **Contact Us** **User** **Book Mark** **Cart**

**Ingredients**

**Category 1**

- Ingredient 1  Ingredient 2
- Ingredient 3  Ingredient 4
- Ingredient 5  Ingredient 6

**Category 2**

- Ingredient 1  Ingredient 2
- Ingredient 3  Ingredient 4
- Ingredient 5  Ingredient 6

**Category 3**

- Ingredient 1  Ingredient 2
- Ingredient 3  Ingredient 4
- Ingredient 5  Ingredient 6

**Chinese** **Italian** **Fast Food** **Diet Food** **North Indian** **South Indian**

# Carousel

— Recepies —

**Pasta**

**Noodles**

**Butter Chicken**

**Sandwich**

**Fried Rice**

**Idly**

**InstaChef LOGO**

**Quick Links**

**Contact Us**

## Footer

Fig 3.4

User Authentication Page

# Sign In

Please sign in with one of your existing third party accounts.  
Or, sign up for a account and sign in below:

Email

Password

[Forgot Password?](#)

**Sign In**

**Sign In With Google**

Fig 3.5

Search recipe page



## — Recepies —



Pasta

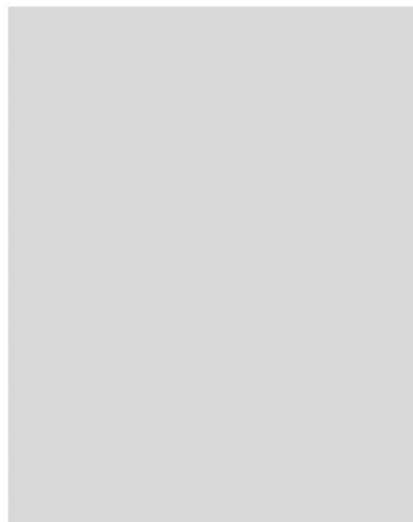


Noodles



Fig 3.6

Recipe detail page



## Chicken Noodles

1. Instruction 1
2. Instruction 2
3. Instruction 3
4. Instruction 4
5. Instruction 5
6. Instruction 6
7. Instruction 7
8. Instruction 8
9. Instruction 9
10. Instruction 10

**Preparation Time : 30 mins**

**Serve : 2**

### Ingredients

Ingredient 1  Ingredient 2  Ingredient 3  Ingredient 4

[Add To Shopping List](#)

Fig 3.6

# Shopping List

Products	Quality	Remove	Summary
Milk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potato	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bell Peper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chicken	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

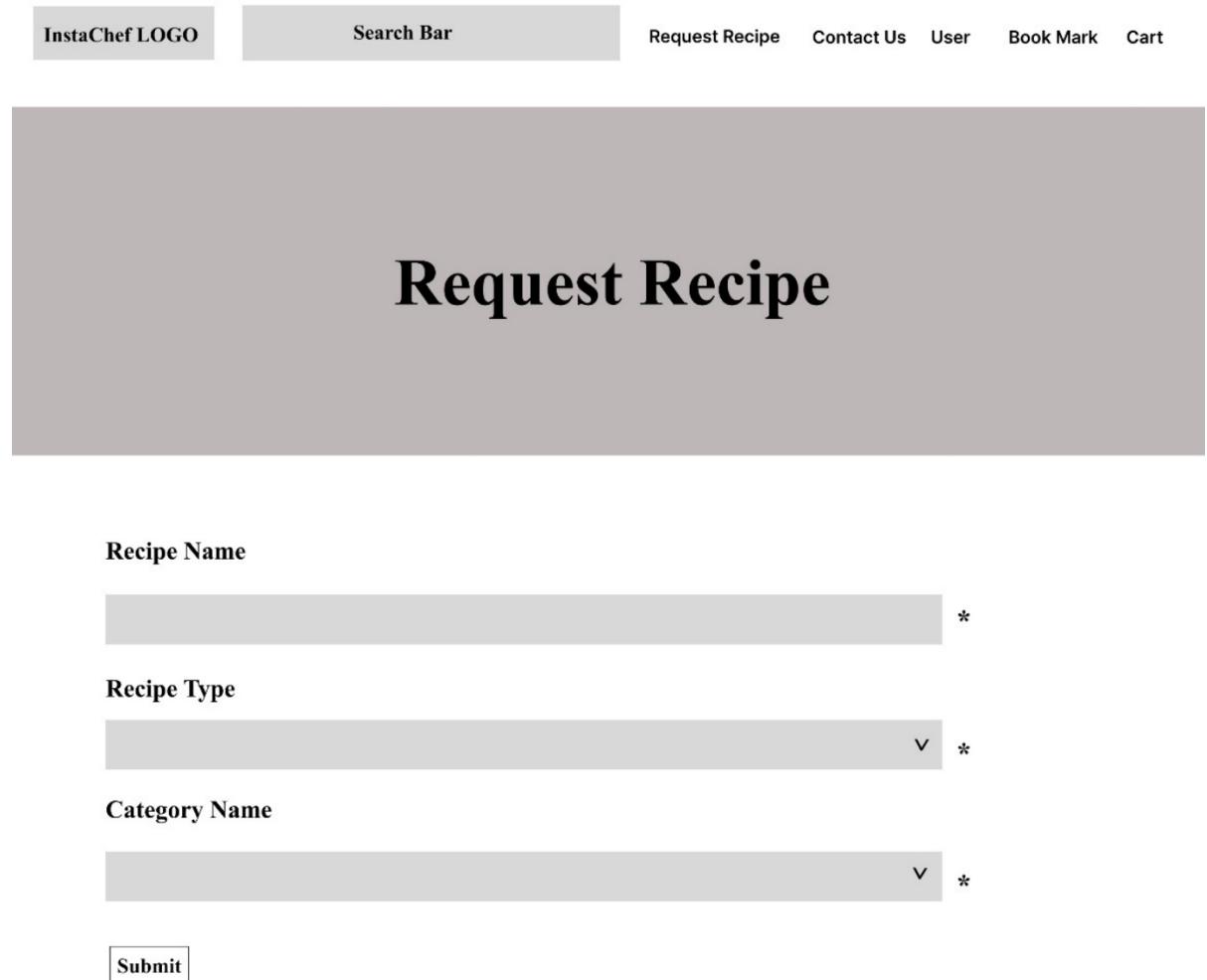
Date : 24 / 5 / 2022

Time : 11:02 AM

# Footer

Fig 3.7

Request recipe page



The image shows the 'Request Recipe' page of the InstaChef application. At the top, there is a navigation bar with the 'InstaChef LOGO' on the left, followed by a 'Search Bar'. To the right of the search bar are links for 'Request Recipe', 'Contact Us', 'User', 'Book Mark', and 'Cart'. Below the navigation bar is a large, light gray rectangular area containing the title 'Request Recipe' in a bold, black, serif font.

**Recipe Name**

\*

**Recipe Type**

v \*

**Category Name**

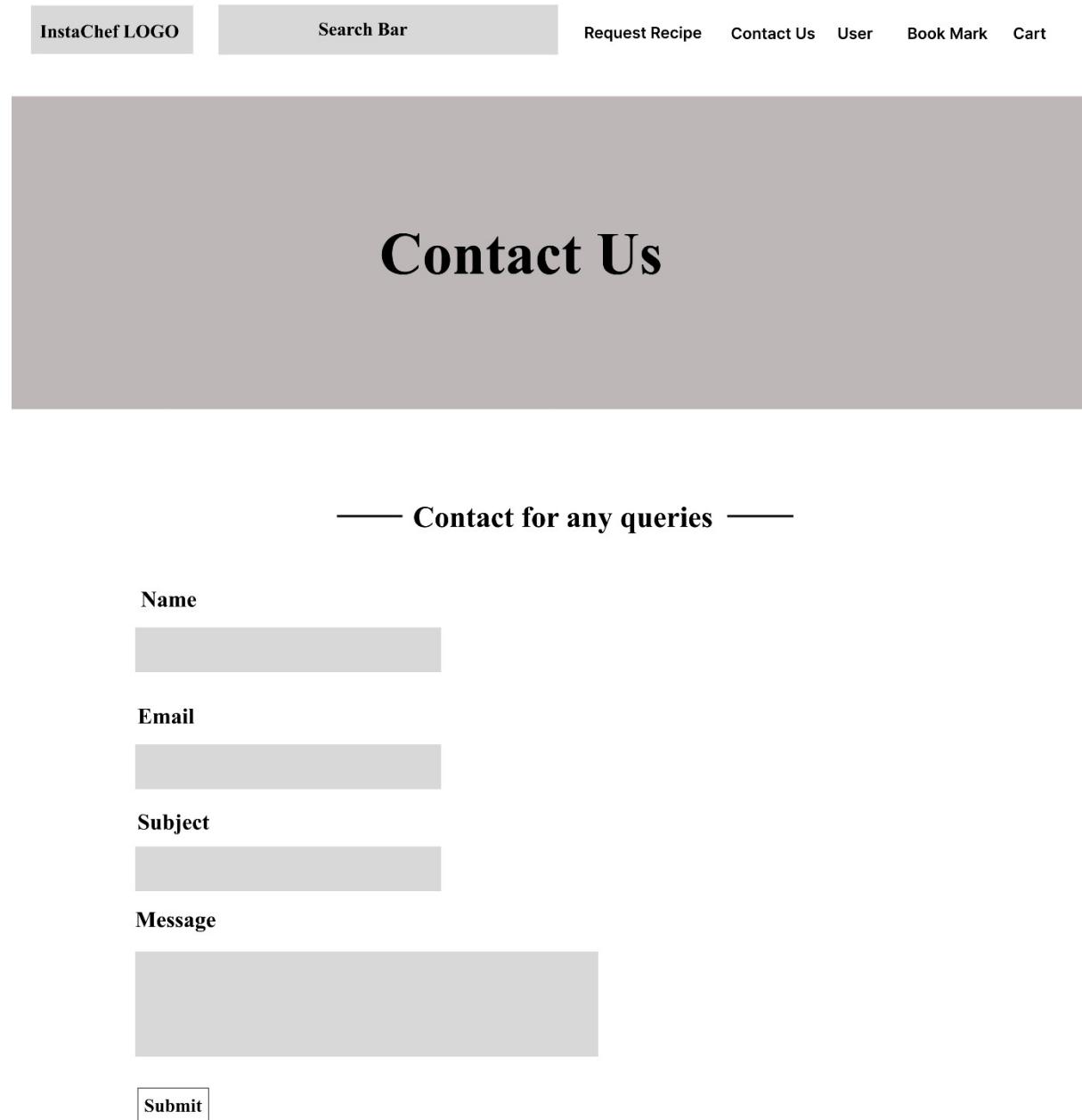
v \*

**Submit**



Fig 3.8

## Contact Us



The image shows a 'Contact Us' page from a website. At the top, there is a navigation bar with the 'InstaChef LOGO' on the left, followed by a 'Search Bar'. To the right of the search bar are links for 'Request Recipe', 'Contact Us', 'User', 'Book Mark', and 'Cart'. Below the navigation bar is a large, solid grey rectangular area containing the text 'Contact Us' in a large, bold, black font.

— Contact for any queries —

**Name**

**Email**

**Subject**

**Message**

**Submit**



Fig 3.9

## 4. Construction

#### 4.1 Hardware Specifications

Processor	AMD Ryzen 5 4500U with Radeon Graphics 2.38 GHz
Installed RAM	8.00 GB (7.39 GB usable)
System type	64-bit operating system, x64-based processor

#### 4.2 Software Specifications

Front end	HTML, CSS, Java Script
Database	PostgreSQL
Back end	Django
Text editor	Visual Studio Code
Documentation	Microsoft Word 2019

There are numerous frameworks in development, but only a few meet a certain use case or set of business objectives, such as Python web development with the Django framework. It is easy to use and was first provided with excellent, high-quality documentation that is still in place. Django also accomplishes the key goals by covering the basics and simplifying the development process, allowing the team to concentrate on the more difficult and unique aspects of the project.

Python web application development needs less work and produces shorter code. Businesses also favor Django web development since it takes less time to write code, resulting in lower project development costs. Django has a flexible and well-structured admin panel that makes the lives of developers easy.

Django has always maintained the highest standards, keeping up with the current developments in website security and development. Security patches are released on a regular basis even for earlier versions of Django. Long-term Support (LTS) is available for Django.

The object-relational mapper is abbreviated as ORM. The fundamental purpose of the ORM is to transfer data between a relational database and an application model. As a result, the entire development process is quick and error-free.

Django includes its own ORM by default. It's a fast ORM that's strongly integrated with the Django framework. Django ORM is designed to handle queries of low to medium complexity.

PostgreSQL is an open-source, strong object-relational database system. Because of its excellent stability, it delivers good performance with minimal maintenance. PostgreSQL was the first database management system to implement multi-version concurrency control (MVCC).

## 5. Testing

### 5.1 Test Cases

Test Case ID	Test Case Name	Test Case Description	Req ID	Execution Steps	Expected Result
LOG. 1	User login Button	On clicking the user icon in the home page, the user should be redirected to the login page.	1	User should click on the user symbol on the navigation bar. On clicking, user should be redirected to the login page.	User should be redirected to the login page.
LOG. 2	User sign up	User account should be able to create an account through Sign Up page.	2	User should click on Sign Up and enter the required details and Click on Sign Up.	In the administrator page, a new user should be created in the database.
LOG.	User Login	User should be	3	On entering the	Users' details must

3		able to login after entering correct credentials.		correct username and password, the user should be able to login.	be updated in the database.
LOG. 4	User Incorrect Login	User should not be logged in after entering incorrect credentials.	4	The user should enter their username and password. If the credentials do not match, user should not be signed in.	Incorrect username/password must be displayed in the database.
LOG. 5	Forgot password	On clicking forgot password, user should be redirected to a form with email ID	5	In the log in page, a forgot password option must be enabled. On clicking that, the user should be redirected to a form with emailID.	Instructions to change the password must be mailed to the user.
SRC.1	Category Sorting	The recipes belonging to a category must be displayed when clicked on a category.	6	On clicking the category icon present at the navbar, the recipes that belong to the category is displayed.	The recipes belonging to the category is displayed.
SRC.2	Recipe name search	The recipe should be visible when recipe name is searched.	7	On entering the name to the recipe in the search bar, the recipe card containing recipe image and name should be	Search should give recipe whose name matches with the search name.

				displayed.	
SRC.3	Ingredients sorting	The recipe containing the given ingredients must be displayed.	8	A panel in the left hand side must be displayed with ingredients. The user should select the necessary ingredients and press submit.	The recipes containing the selected ingredients must be displayed.
SRC.4	Recipe detail in category selection	The recipe detail of each category must be displayed.	9	On clicking the recipes belonging to a particular category, the recipe detail must be displayed.	On clicking the recipe card, the recipe detail must be displayed.
SRC.5	Recipe detail in recipe search	The recipe detail of searched recipe should display.	10	On entering the name of the recipe to be searched, the recipe detail card containing all the information is displayed.	On clicking the recipe card, the recipe detail must be displayed.
SRC.6	Recipe detail in home page	The recipe detail must be displayed on clicking the recipe.	11	The recipe detail must be displayed on clicking the recipe card present in the home page.	On clicking the recipe card, the recipe detail must be displayed.
DET.1	Ingredients panel in the index page	The ingredients must be displayed in the index page. The	12	The ingredient details are entered in the admin page. The entered ingredients should then be	The ingredients present in the ingredients table are displayed in the index page.

		ingredients must be fetched from the database.		dynamically reflected in the home page.	
DET.2	Recipe detail card in index page	The recipe name and image that is displayed in the index page must be fetched dynamically from the database.	13	The recipe details are entered in the admin page. The recipe name and image from the database are displayed in the index page.	The entries present in the recipe information table must be displayed.
DET.3	Category detail in the index page.	The category must be displayed in the index page. The ingredients must be fetched from the database.	14	The category details are entered in the admin page. The recipe name and image from the database are displayed in the index page.	The entries present in the category details table must be displayed.
DET.4	Recipe detail	On clicking the recipe detail, the recipe information along with the ingredients must be displayed.	15	On clicking the card containing the recipe name and image in the index page, the user must be redirected to the recipe detail page.	The entries present in the recipe steps table must be displayed along with recipe image.
DET.5	Ingredients in	Ingredients of	16	In the recipe	The ingredients of

	recipe detail	a recipe must be dynamically fetched and displayed.		information page, the ingredients of the recipe must be dynamically fetched from the database.	the recipe must be displayed in the recipe information page dynamically.
SHP.1	User shopping List	User should be able to redirect to shopping list page	17	The user must be redirected to shopping list page on click of shopping list icon on top bar.	The user should be able to view the shopping list page.
SHP.2	Shopping list detail	Ingredients selected by the user must be dynamically fetched and displayed.	18	In the shopping list page, the ingredients selected by the user must be dynamically fetched from the database.	The ingredients selected by the user must be displayed in the shopping list page and must be fetched dynamically.
SHP.3	Shopping list add/remove	User should be add or remove ingredients to and from the shopping list	19	User must select ingredients to add and click on a remove button present at each ingredient row to remove the ingredients.	user should be able add or delete ingredients from the shopping list and this must be reflected in the database.
REQ.1	Request recipe form	User can request for recipes by clicking on the request recipe form.	20	On clicking on request recipe in the navigation bar at the index page, the request recipe form must be	Request recipe form must be displayed.

				displayed with all the required fields.	
REQ.2	Request recipe form drop down menu	User should be able to click on the required drop-down menu.	21	In the request recipe, the recipe types must have drop down menu with options along with category type. The category type must be fetched from the database.	The request recipe form must have all the required options for the user to fill.
REQ.3	Posting to the request recipe table	The information in the fields must be posted to the database.	22	After entering the information in the fields and clicking on submit, the recipe must be posted to the requestrecipe table.	The new record must be added to the request recipe table.
REQ.4	Alert after request submission	On successful submit, an alert must be displayed conveying the same.	23	After necessary details are entered, the form is submitted. An alert appears conveying the same.	An alert saying form has been submitted successfully is displayed.

## 5.2 Module Integration Plan

Each member of the team was assigned a module to work on. Upon completion of a functionality module, the members of the team uploaded their files to GitHub and the necessary code was integrated to the rest of the project. We integrated every functionality along the way and often assisted each other in adding more functionality to a module.

## 5.3 Testing

Test	Test Case	Test Case	Re	Execution	Expected Result	Resul

Case ID	Name	Description	q ID	Steps		t
LOG. 1	User login Button	On clicking the user icon in the home page, the user should be redirected to the login page.	1	User should click on the user symbol on the navigation bar. On clicking, user should be redirected to the login page.	User should be redirected to the login page.	Pass
LOG. 2	User sign up	User account should be able to create an account through Sign Up page.	2	User should click on Sign Up and enter the required details and Click on Sign Up.	In the administrator page, a new user should be created in the database.	Pass
LOG. 3	User Login	User should be able to login after entering correct credentials.	3	On entering the correct username and password, the user should be able to login.	Users' details must be updated in the database.	Pass
LOG. 4	User Incorrect Login	User should not be logged in after entering incorrect credentials.	4	The user should enter their username and password. If the credentials do not match, user should	Incorrect username/password must be displayed in the database.	Pass

				not be signed in.		
LOG. 5	Forgot password	On clicking forgot password, user should be redirected to a form with email ID	5	In the log in page, a forgot password option must be enabled. On clicking that, the user should be redirected to a form with emailID.	Instructions to change the password must be mailed to the user.	Pass
SRC.1	Category Sorting	The recipes belonging to a category must be displayed when clicked on a category.	6	On clicking the category icon present at the navbar, the recipes that belong to the category is displayed.	The recipes belonging to the category is displayed.	Pass
SRC.2	Recipe name search	The recipe should be visible when recipe name is searched.	7	On entering the name to the recipe in the search bar, the recipe card containing recipe image and name should be displayed.	Search should give recipe whose name matches with the search name.	Pass
SRC.3	Ingredients sorting	The recipe containing	8	A panel in the left hand side	The recipes containing the	Pass

		the given ingredients must be displayed.		must be displayed with ingredients. The user should select the necessary ingredients and press submit.	selected ingredients must be displayed.	
SRC.4	Recipe detail in category selection	The recipe detail of each category must be displayed.	9	On clicking the recipes belonging to a particular category, the recipe detail must be displayed.	On clicking the recipe card, the recipe detail must be displayed.	Fail
SRC.5	Recipe detail in recipe search	The recipe detail of searched recipe should display.	10	On entering the name of the recipe to be searched, the recipe detail card containing all the information is displayed.	On clicking the recipe card, the recipe detail must be displayed.	Fail
SRC.6	Recipe detail in home page	The recipe detail must be displayed on clicking the recipe.	11	The recipe detail must be displayed on clicking the recipe card present in the	On clicking the recipe card, the recipe detail must be displayed.	Pass

				home page.		
DET.1	Ingredients panel in the index page	The ingredients must be displayed in the index page. The ingredients must be fetched from the database.	12	The ingredient details are entered in the admin page. The entered ingredients should then be dynamically reflected in the home page.	The ingredients present in the ingredients table are displayed in the index page.	Pass
DET.2	Recipe detail card in index page	The recipe name and image that is displayed in the index page must be fetched dynamically from the database.	13	The recipe details are entered in the admin page. The recipe name and image from the database are displayed in the index page.	The entries present in the recipe information table must be displayed.	Pass
DET.3	Category detail in the index page.	The category must be displayed in the index page. The ingredients must be fetched from the database.	14	The category details are entered in the admin page. The recipe name and image from the database are displayed in the index page.	The entries present in the category details table must be displayed.	Pass

DET.4	Recipe detail	On clicking the recipe detail, the recipe information along with the ingredients must be displayed.	15	On clicking the card containing the recipe name and image in the index page, the user must be redirected to the recipe detail page.	The entries present in the recipe steps table must be displayed along with recipe image.	Pass
DET.5	Ingredients in recipe detail	Ingredients of a recipe must be dynamically fetched and displayed.	16	In the recipe information page, the ingredients of the recipe must be dynamically fetched from the database.	The ingredients of the recipe must be displayed in the recipe information page dynamically.	Pass
SHP.1	User shopping List	User should be able to redirect to shopping list page	17	The user must be redirected to shopping list page on click of shopping list icon on top bar.	The user should be able to view the shopping list page.	Pass
SHP.2	Shopping list detail	Ingredients selected by the user must be dynamically	18	In the shopping list page, the ingredients selected by the	The ingredients selected by the user must be displayed in the shopping list page	Pass

		fetched and displayed.		user must be dynamically fetched from the database.	and must be fetched dynamically.	
SHP.3	Shopping list add/remove	User should be add or remove ingredients to and from the shopping list	19	User must select ingredients to add and click on a remove button present at each ingredient row to remove the ingredients.	user should be able add or delete ingredients from the shopping list and this must be reflected in the database.	Pass
REQ.1	Request recipe form	User can request for recipes by clicking on the request recipe form.	20	On clicking on request recipe in the navigation bar at the index page, the request recipe form must be displayed with all the required fields.	Request recipe form must be displayed.	Pass
REQ.2	Request recipe form drop down menu	User should be able to click on the required drop-down menu.	21	In the request recipe, the recipe types must have drop down menu with options along with category	The request recipe form must have all the required options for the user to fill.	Pass

				type. The category type must be fetched from the database.		
REQ.3	Posting to the request recipe table	The information in the fields must be posted to the database.	22	After entering the information in the fields and clicking on submit, the recipe must be posted to the request recipe table.	The new record must be added to the request recipe table.	Pass
REQ.4	Alert after request submission	On successful submit, an alert must be displayed conveying the same.	23	After necessary details are entered, the form is submitted. An alert appears conveying the same.	An alert saying form has been submitted successfully is displayed.	Pass

#### 5.4 Defects

The following are the bugs/defects in our project:

- User profile containing favourite recipes bookmarked by the user is missing in the current version of the website.
- Removal of ingredients from the shopping list is yet to be included on the website.
- Posting request recipes on the homepage is missing from the website.

#### 6. Screenshots

Home page

[Ingredients](#)
**Recipe Base**
 Rice  Roti  Noodles  Pasta

**Vegetables & Greens**
 Garlic  Onion  Capsicum  
 Tomato  Carrot  Cabbage

**Fruits & Berries**
 Orange  Pineapple  Strawberry  
 Pomegranate  Blackberry


Chinese



Italian



Fast Food



Diet Food



North Indian



South Indian


**— Recipes —**
**— Recipes —**


Red Sauce Pasta



Sandwich



Butter Chicken



Idly and Vada



Fried Rice



Noodles

**Quick Links**

- [» Home](#)
- [» Shopping Cart](#)
- [» Checkout](#)
- [» Contact Us](#)

**Contact Us**

[Sign In](#)

[Sign Up](#)

## Sign In

Please sign in with one of your existing third party accounts.  
Or, sign up for a example.com account and sign in below:

[Sign in with Google](#)

Username\*

Password\*

Remember Me

[Sign In](#)

[Forgot Password?](#)

[Change E-mail](#)

[Home](#)

[Sign Out](#)

## Sign In Via Google

You are about to sign in using a third party account from Google.

[Continue](#)

 Sign in with Google

### Choose an account

to continue to [Instachef](#)

 S AKSHAYA 2147256 s.akshaya@mca.christuniversity.in
 Akshaya Sridhar akshaya.sridhar05@gmail.com
 SANDEEP G 2147232 g.sandeep@mca.christuniversity.in
 Infobahn Magazine infobahnmagazine@cs.christuniversity.in
 S AKSHAYA 1840336 s.akshaya@science.christuniversity.in
 Akshaya Sridhar mailto:akshaya5@gmail.com
 Use another account

To continue, Google will share your name, email address, language preference, and profile picture with Instachef.

[Sign In](#)

## Sign Up

You are about to use your Google account to login to example.com. As a final step, please complete the following form:

- An account already exists with this e-mail address. Please sign in to that account first, then connect your Google account.

E-mail:

Username:

[Sign In](#)

## Sign In

Please sign in with one of your existing third party accounts.  
Or, sign up for a example.com account and sign in below:

Username\*

Password\*

Remember Me

[Forgot Password?](#)

Recipe details page



### Red Sauce Pasta

1. Put pasta to boil for 10 minutes and keep it aside.
2. Boil tomato for a few minutes to soften it. Put it in mixer to make puree.
3. Dice onions and keep it aside.
4. Dice garlic and keep it aside.
5. Keep spices such as oregano and chilli flakes ready.
6. Make oil hot and add onions and garlic and saute it.
7. Add pasta to the sautéed vegetables and add the herbs.
8. Your pasta is ready to be served!

**Preparation Time :- 45**

**Serve :- 2 people**

Ingredients

Pasta  Tomato  Onion  Garlic  Oregano  Oil  Chilli Flakes  Salt

[Add to Shopping List](#)

A personalized Cooking Website which not only helps you in cooking but also allows you to post recipes.

1st Main S.G Palaya, Benagluru  
InstaChef@gmail.com  
+012 345 67890

#### Quick Links

[Home](#)  
[Shopping Cart](#)  
[Checkout](#)  
[Contact Us](#)

#### Contact Us

Your Name

Your Email

[Subscribe Now](#)

## Sorting by Category

Search by dishes/ingredients



[Request Recipe](#)

[Contact Us](#)



Ingredients

#### Recipe Base

Rice  Roti  Noodles  Pasta

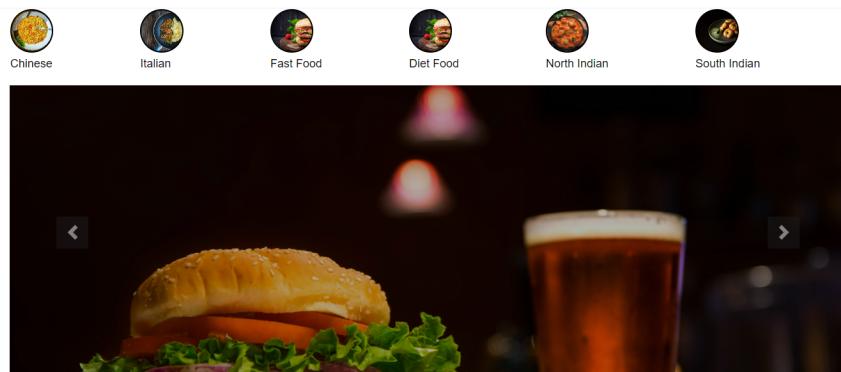
#### Vegetables & Greens

Garlic  Onion  Capsicum

Tomato  Carrot  Cabbage

#### Fruits & Berries

Orange  Pineapple  Strawberry  
 Pomegranate  Blackberry



## — Recipes —

**InstaChef**

**Ingredients**

#### Vegetables & Greens

0/100 ingredients

garlic onion bell pepper  
tomato carrot +94 More

#### Fruits & Berries

0/100 ingredients

orange pineapple mango  
pomegranate blackberry

**Recipes**



**Red Sauce Pasta**

## Search

**InstaChef**

**Ingredients**

#### Recipe Base

Rice  Rotti  Noodles  Pasta

#### Vegetables & Greens

Garlic  Onion  Capsicum  
 Tomato  Carrot  Cabbage

#### Fruits & Berries

Orange  Pineapple  Strawberry  
 Pomegranate  Blackberry

 Chinese
 Italian
 Fast Food
 Diet Food
 North Indian
 South Indian



**Recipes**

**InstaChef**



**Red Sauce Pasta**

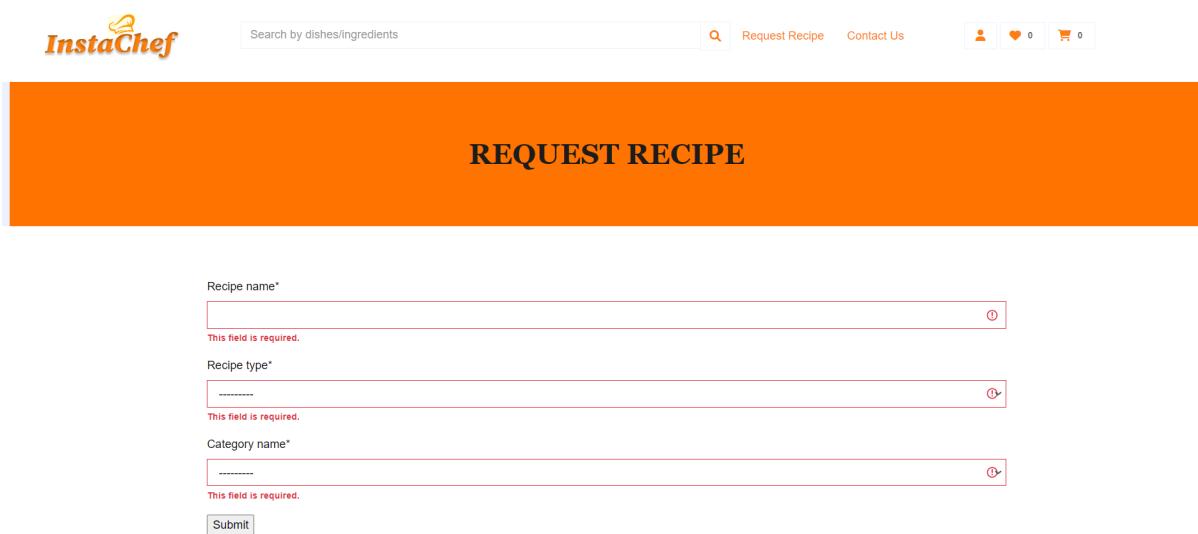
**Recipes**

**InstaChef**

Quick Links

Contact Us

## Recipe Request



The screenshot shows the InstaChef Recipe Request form. At the top left is the InstaChef logo. To its right is a search bar with the placeholder "Search by dishes/ingredients". Further right are three buttons: "Request Recipe", "Contact Us", and a user profile icon with a heart and a shopping cart. Below the header is a large orange banner with the text "REQUEST RECIPE". The main form area contains four input fields: "Recipe name\*" (empty), "Recipe type\*" (empty), and "Category name\*" (empty). Each of these fields has a red border and a small error message below it: "This field is required.". A "Submit" button is located at the bottom of the form.

Recipe name\*

This field is required.

Recipe type\*

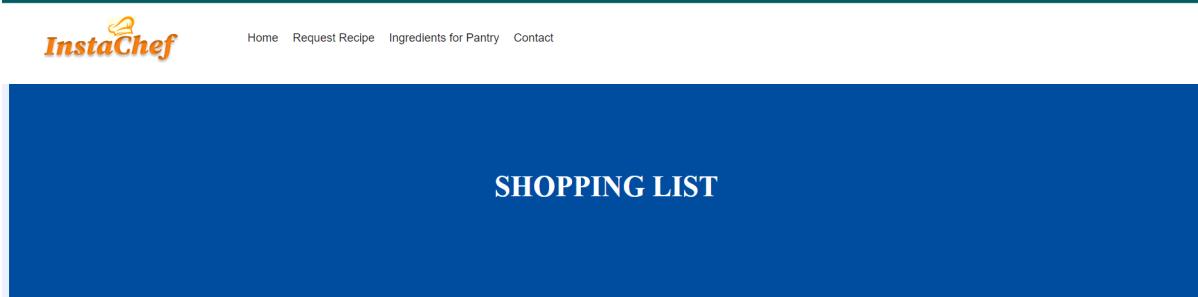
This field is required.

Category name\*

This field is required.

Submit

## Shopping List



The screenshot shows the InstaChef Shopping List form. At the top left is the InstaChef logo. To its right are links for "Home", "Request Recipe", "Ingredients for Pantry", and "Contact". Below the header is a large blue banner with the text "SHOPPING LIST". The main form area contains a table for managing inventory. On the right side is a summary section titled "Invantry Summary" with fields for "Current Time :" and "Date :" and a "Done" button.

Home Request Recipe Ingredients for Pantry Contact

SHOPPING LIST

Products	Quantity	Remove
Milk	1	Remove
Capsicum	1	Remove
Peanuts	1	Remove
Potato	1	Remove

Invantry Summary

Current Time :

Date :

Done

## 7. Conclusion and Learnings

### **7.1 Challenges faced**

We chose Django and PostgreSQL as our backend and database respectively as we were keen to learn new technologies. Learning them has been challenging yet rewarding and has expanded our horizons as well as trained us to think out of the box. We also faced some difficulty in integrating the project as each person worked on different modules. We also learnt to communicate with each other and help one another in learning this technology.

Overall, working on this project has been immensely satisfying and has made us eager to take up more projects to improve our skills with this particular technology.

### **7.2 Future Scope**

The future scope of this project is enormous. We can implement a recipe assistance system through a notification system where a user gets notified after certain time to move on to the next step. This would essentially be like an alarm for the user. We can also utilize machine learning algorithms to recommend recipes to the user based on the feedback or popularity as well as recommend recipes based on a user's previous interactions.