

# Food4U – A Recipe-Finding Website

Finding the perfect recipe for various categorized people

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**Abstract—In — Today’s world, many people don’t know how to cook. It is difficult for many people to rely on others to learn how to cook. In this hustle life, finding someone willing to teach others about cooking is difficult. Everyone is involved in their respective jobs allocated. the Usage of websites is the most common thing. In this snowballing society, people find it hard to cook food with the limited ingredients they have. Others face difficulty in finding the recipe that suits their health condition. Using the most popular technology among the common people and satisfying their basic needs would be magnificent. Not all websites need to have a proper net connection. Some apps work offline too. Many technologies could be implemented and we can develop a new efficient website that has all the mentioned requirements. We have designed a website that includes a lot of features that are all required to cook food at the home. People now can be relieved from worrying about cooking. With our website, people can easily prepare desired unique dishes that assure the quality of ingredients, and food as well.**

## INTRODUCTION

Food is a need for the survival of a specie. There is no life without food. There are many types of food around this world. Different people have different tastes. Even there is a specific food that belongs to a particular culture. There are various categories of food like spice food, vegan food, non-veg food, etc. Our world is growing fast. Our technology is expanded. We have tremendous technologies to know the place where the desired food is available, How to buy the Food, Where to buy it, and How much it costs too. But we find that the living expenses of the current world have grown rapidly. Living expenses in this world nearly increased by 11.1% in 40 past years.

We have different apps for different reasons. We have apps for buying food where the food directly approaches you by the delivery person. You may be given eye-satisfying offers in those kinds of apps. But actually, the offers are just to attract customers. We cannot even give assurance for the quality of food. Of course, there are considerable cons of buying the food outside but when compared to making the food on your hits are different. Buying food outside either by using apps or getting it directly from a store costs high. There is a need for food that fits in their pocket. The food production rates increased by 8.3% from 1980[6]. Since the production rates were being increased, the cost of making a dish in a restaurant would also cost you high. With interest and a small effort you can prepare your own food with this you can save your money too. Nowadays, our education

system’s subjects are vast. There are a lot of subjects to be learned even for small kids. Every student including kids of 1-5 years is getting busy with their homework who are trying to compete with the running world of technology.

Everyone is busy learning subjects that are related to their professional careers. But sadly people are forgetting to at least have a glance about the things that are essential to our life. This includes cooking too. Since many people don’t know how to cook them in a proper way they keep on wasting food. The ingredients of that dish will be wasted by many since they don’t know how to cook them in a proper way. because of this, a lot of production is being wasted annually.

In this hustling world, everyone is involved in their busy schedules. Very few people spend their time helping others with cookery work. It’s better to rely on technology than to bother others. By considering all the things, If you find something that is affordable and trustworthy to learn cooking is a website that is free. We can use the latest technology to satisfy our needs. We can design a website that works offline and has selecting language options. If we have this feature on the website then we can learn cooking food easily. This will guide you on how to prepare a dish, what ingredients require, and what are tips can be followed in the kitchen.

A website can be built using the languages like HTML, CSS, and JavaScript. We can use the framework called bootstrap for the smoother use of the website on mobile too. Hence, our app could be used on both laptops and mobile. This could be a dynamic website as well. But for smoother performance, a static website is preferred. We have even used the Vanilla JavaScript frameworks then and there this could give us the light weighted website.

## LITERATURE SURVEY:

Akiyo Nadamoto, Shunsuke Hanai, Hidetsugu Nanba proposed a method for “Clustering for Similar Recipes in User-generated Recipe Sites based on Main Ingredients and Main Seasoning”[1]. This method will analyze and minimize the additional meal for the user who is looking for a specific meal in the main seasoning. Ryo Sobue proposed a method for “Cooking Video Summarization Guided By Matching with Step-By-Step Recipe Photos”[2]. The method is a well-designed structured query for summarizing the cooking video and their step-by-step explanation of the matching meals. Shilpa Chaudhari, Aparna R, Vinay G Tekkur, Pavan G L, and Shreekanth R Karki proposed a

method for “Ingredient/Recipe Algorithm using Web Mining and Web Scraping for Smart Chef”[3]. This approach is primarily concerned with selecting the ideal recipe for the smart chef to prepare the meal according to their diet, schedule, and consumption of the food. Martin Junghans, and Sudhir Agarwal proposed a method for “Efficient Search for Web Browsing Recipes”[4]. This method is based on finding the accurate web page for making a recipe. Mamoru Emoto Proposed a method for “Extraction of Preference of Recipe Providers and Users on Recipe-Sharing Websites”[5]. It is used for extracting and visualizing user preferences from the data they have gathered for making a recipe.

## PROPOSED SYSTEM

In our proposed system, we mostly concentrated on the individuals who are having trouble cooking with the ingredients that are readily available to them. The Project is composed of six distinct features.

### SEARCH BY INGREDIENT

On this page, the recipe can be searched using the provided ingredient in the search bar. A variety of recipes are presented to them based on the ingredient they have been given. Each dish includes information about how to prepare the food, a balanced diet, and calories. We must select a certain recipe from the variety of recipes, and it will then navigate to another page that will explain the recipe to us in clear and detailed terms. The recipe is also available on YouTube, where they are demonstrated graphically before being used to make delicious food.

### SEARCH BY RECIPE

We are aware of the delicious foods we should eat, but we are unaware of the ingredients and other items that should be included. Simply entering the recipe's name in the search bar will provide several recipes for us to choose from. Then, after selecting a specific recipe, we'll give you the calories, a balanced diet, and instructions for making it.

### HEALTH CONSCIOUSNESS

This page specifically lists the recipes that are based on health care. It is used to promote people's health. We used four sections of healthcare categories to make our selections of food. It will assist people in learning what food to consume and what to avoid. This will ensure that people will be leading healthy, productive lives.

### TIPS AND TRICKS

This page contains various cooking tips and tricks as well as instructions on how to safely prepare food while cooking. It enhances cooking techniques. Even individuals without any prior cooking experience can acquire some advice and eventually generate their own suggestions. With those pointers, we can successfully learn to cook. We can prepare a recipe using the information of tips and tricks which are provided to us.

### BOOKMARKS:

Bookmarks are convenient when you find a recipe that you want to remember and look at another day. Storing

favorite recipes on the Internet makes it easier to search for that particular dish.

### NOTES:

Users' significant notes were stored in notes, he/she intended to keep. Notes contain information about the collection of recipes, instructions, and information about the preparation of that dish.

### EDAMAM FOOD DATABASE

For keeping the website light, we did not use the local database. All the information about the recipes that are used in our website is used from the Edamam food API's database. This API consists of around 250 varieties of dishes with a detailed step-by-step process of making with the specification of ingredients that are all necessary to make that particular dish.

### IMPLEMENTATION

To create the application, To create the application, several tools were used in this project. The steps involved in developing this application are detailed here. This is a Heroku app that has been deployed.

Initially, there is no login option on this website, so anyone can visit this application and get whatever they want to cook. Anyone with questions or concerns can contact us via email or phone.

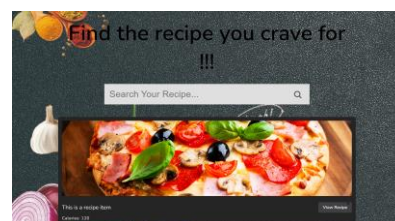
When you get to the home page, a slide bar with pictures shows you what this application has to offer.



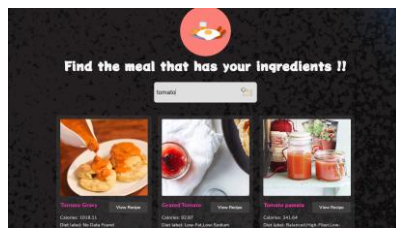
Then there is a brief description of the features of our app, which describes the application's uniqueness. The main body of the application is then visible to the user. It primarily consists of six options.



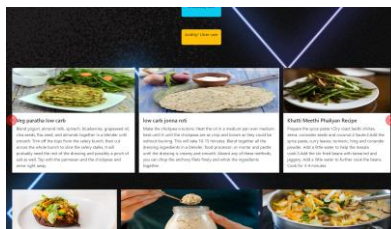
The first thing is to look for a meal by entering a recipe name into the search bar. Once the recipe name is entered, all of the meals appear.



The second option requires the user to enter an ingredient with which they want to cook food, and then the recipes will show up.



The third option includes a very useful feature called Special care, which means that several health problems are mentioned here so that if the user needs meals and is aware of any of these diseases, they can select the button and find out the recipes.



The next available option is tips and tricks, which contain efficient cooking tips, food-saving and management tips, meal-making tricks, cutting tips, and so on, which a user can read and use.



## CONCLUSION

Our website is a handy digital book that contains around 250 unique varieties of food. This includes many useful features such as bookmarks, notes, and searching the recipe by name as well as by the list of ingredients. Using the external database and generating the results that contain the procedure of making a dish. All these features including the translation option are really helpful for people who just know their mother tongue.

## REFERENCE

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