**Project Name: FLAVOURZILLA**

**Project Group Members:**

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**INRODUCTION**

"FOOD MAY BE ESSENTIAL AS FUEL FOR THE BODY, BUT GOOD FOOD IS FUEL FOR THE SOUL". A Healthy and tasty food is what we all need but unfortunately everyone does not have the art of making healthy and most important, tasty food. In order to help them, this project i.e. **FLAVOURZILLA** will help them by providing a wide range of food recipes of different categories along with videos and required ingredients which will help the user in making delicious and healthy food.

The whole Website will revolve around user and their comfort. User module will help the user to find out their desired recipes. Recipes will be divided into three categories - Meal Timings, Ingredients and Cuisine. In each category, user can find the relevant recipes which will contain ingredient list, set of instructions to prepare the food and a video tutorial which make the understanding easier. User can view a limited number of recipes as a visitor and after that he/she will have to register themselves to view more recipes. After registering themselves, user can manage their profile, rate a recipe, Upload their own recipe in desired category and share their opinion about a recipe which will help in further improvement in recipes.

**PROBLEM STATEMENT**

Over the years Globalization, advances in technology, changing gender roles and climate change have had a huge impact on how we live our lives. Along with this, time has also changed our eating habits. Previously, people used to eat limited variety of food repeatedly. Innovations in fooding were not so common and trying new recipes were not so interesting for the peoples. But as the time has passed, we can see a drastic change in individual's eating habits and taste. Now, people always like to try new dishes of different cuisines, explore different tastes, and try to do innovations and experiments with raw ingredients. Everyone want to have good food in different flavours and taste but don't know how to prepare it.

Usually when people try to make a new dish, the very first thing they do is searching it on Google. Their primary concerns are always about finding the required raw ingredients, their relative quantity, set of instructions to prepare the food, and most important, a related video from where they can see the preparation procedure which will help them in hands on preparation of the food. But unfortunately they don't find all these stuffs (Ingredients, Steps of preparation and video tutorial) at a single place and to do so, they have to visit a numerous platform like websites or applications or Youtube which is quite time consuming and hectic. Many of the times, people gave up their plan of cooking the dish and order it from restaurants because they don't find enough resources which could help them in preparing food.

To resolve all these issues, a platform should be there which have all the features i.e. different categories of food (based on Meal timings, Required Ingredients, Cuisine) along with their ingredient requirement, preparation steps and video tutorial which will help the people in making new dishes and exploring the new flavours.

**MOTIVATION**

Motivation is something that initiates, guides, and encourages persons or group to give their best performance and help in reaching the desired goal. The main motivation behind this project is to provide a all in one place for food lovers which will help those people who have little or no knowledge about cooking and also don't have enough time to explore different platforms for the recipe.

No person needs to learn cooking as long as he/she is at their home but when they have to leave their home to study or for job, then sometimes a situation comes when they have to cook their own food. Now a days many people leave their homes for studies or for job. Some of them lives as paying guest where they get their food from outside but some lives in rented house where they have to make their own meals. Due to their studies or jobs, people don't have enough time to explore a healthy dish by surfing on internet. In order to help them, we are trying to make this project where user can find a wide range of recipes which will help them in making new and healthy dishes. All the recipes will be divided into different categories and sub categories which will save the time of user and will help them in reaching their desired recipe easily.

**WORKING METHODOLOGY**

**FLAVOURZILLA** is a food oriented website which will provide a wide range of food recipe to the users. The target audience are the food lovers, youngsters (who cooks their own food), household peoples and many more. All the recipes will be divided in three main categories i.e. Meal Timing, Ingredients, Cuisine and sub categories inside it which will give the initial flow of direction to the user. Each recipe would include the Ingredients along with their quantity, set of instructions to prepare the food, a video tutorial which will help in preparing the food. Each user can visit the website the website as a visitor also where he/she can view a limited number of recipes with some restrictions. To remove all the restrictions, user must register themselves with our website after which they can view any number of recipes, like or dislike a recipe, add their comment on the recipe whether they like it or not and they can contribute to our website by adding their own recipes as per the category. User can also manage their profiles after registration/login.

**TECHNOLOGIES USED**

**Primary Technologies**

Our main focus is to make an user-friendly and interactive interface which make it easy for the user to navigate over the website and for this the following technologies will be used:

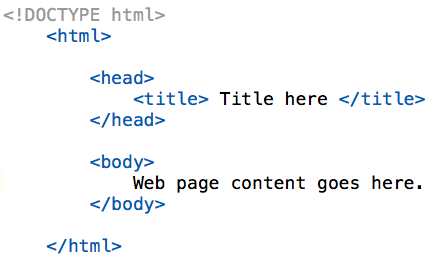
1. **HTML:** HTMLStands for "Hypertext Markup Language". HTML is the language used to create webpage. "Hypertext" refers to the hyperlinks that an HTML page may contain. "Markup language" refers to the way tags are used to define the page layout and elements within the page. HTML is a text-based approach to describing how content contained within an HTML file is structured. This markup tells a web browser how to display text, images and other forms of multimedia on a webpage.

Fig 1: Basic HTML Code

**Limitation:**

* HTML has limited designing capabilities so, we can’t be able to create appealing websites and for that we use CSS.
* HTML has no programming capabilities so we can' not create dynamic webpages and for that we use JavaScript.

1. **CSS:** CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. CSS helps Web developers create a uniform look across several pages of a Web site. While CSS is great for creating text styles, it is helpful for formatting other aspects of Web page layout as well. For example, CSS can be used to define the cell padding of table cells, the style, thickness, and color of a table's border, and the padding around images or other objects.

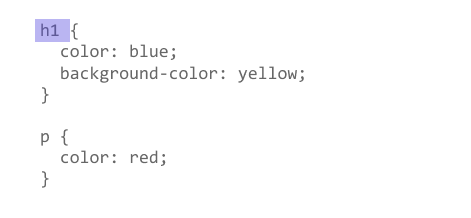


Fig 2: Basic CSS code

**Limitations:**

* It cannot perform any logical operations like if/else, for/while, +/-, etc.
* You cannot read your files using CSS.
* You cannot interact with databases using CSS.
* CSS can’t request a web page.

1. **JavaScript:** JavaScript is a programming language commonly used in web development. It was originally developed by Netscape as a means to add dynamic and interactive elements to websites. While JavaScript is influenced by Java and the syntax is more similar to C. JavaScript is a client-side scripting language, which means the source code is processed by the client's web browser rather than on the web server. This means JavaScript functions can run after a webpage has loaded without communicating with the server.

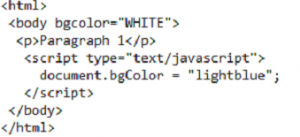


Fig 3: Basic JavaScript Code

**Limitations:**

* JavaScript could not used for networking applications because there is no such support available.
* JavaScript cannot access databases.
* JavaScript cannot protect your page source or images.

1. **Bootstrap:** Bootstrap is a free and open source front end development framework for the creation of websites and web apps. The Bootstrap framework is built on HTML, CSS, and JavaScript (JS) to facilitate the development of responsive, mobile-first sites and apps. Responsive design makes it possible for a web page or app to detect the visitor’s screen size and orientation and automatically adapt the display accordingly. Originally created by a designer and a developer at Twitter, Bootstrap has become one of the most popular front-end frameworks and open source projects in the world.

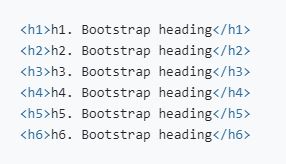


Fig 4: Basic Bootstrap Code

**Limitations:**

* Can require lots of overriding styles or rewriting their files if you have lots of customizations or want to deviate from Bootstrap structure.
* Websites can start to look the same if you don't customize the styles and colors much.
* Styles are verbose and can lead to lots of HTML output that's not perfectly semantic.

**Other Technologies**

Other than an interactive and user friendly interface, we also need a Relational Database Management System and a Backend language for server side scripting and linking database with the website. For this purpose, following Technologies will be used:

1. **PHP:** PHP stands for "Hypertext Preprocessor". PHP is an HTML-embedded Web scripting language. This means PHP code can be inserted into the HTML of a Web page. The output from the PHP functions on the page are typically returned as HTML code, which can be read by the browser. Because the PHP code is transformed into HTML before the page is loaded, users cannot view the PHP code on a page. This make PHP pages secure enough to access databases and other secure information.

**Limitations:**

* **PHP is a fully synchronous language**. This has impact on which things you can easily implement in PHP and which not.
* **PHP is slow** as compared to other scripting languages.

1. **SQL:** Structured Query Language (SQL) is a programming language that is typically used in relational database or data stream management systems. It was developed by IBM in the early 1970s and is now an official standard recognized by the American National Standards Institute (ANSI) and the International Organization for Standardization (ISO). SQL is a language to operate databases; it includes database creation, deletion, fetching rows, modifying rows, etc.

**Limitations:**

* SQL has a difficult interface that makes few users uncomfortable while dealing with the database.
* Interfacing an SQL database is more complex than adding a few lines of code.

**TOOLS USED**

1. **Text Editor:** For many developers, a trusty text editor is all you need for even the most complex Web Applications.Different types of text editors are used for coding in different programming and scripting language. Some of them are Sublime Text 3, VS Code, Notepad++ etc.
2. **phpMyAdmin:** phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

**DESCRIPTION OF THE MODULES**

The main focus of our project is to provide an interactive and user friendly GUI which will make it easy and comfortable for the user to navigate over the website and include the database for storing recipes details, user details, user ratings etc. For this we have broadly divided the whole website into 5 modules which are described below.

1. **View Recipe Module:** This module is basically the face of the website. All the recipes are categorized into three main categories i.e. Meal Timings (It further include various sub categories i.e. Breakfast, Lunch, Snacks, Dinner), Ingredients (It include sub categories of different ingredients which consists recipes with similar ingredients), Cuisine (It further include list of different cuisines like Chinese, Italian etc which consists related recipes). Each recipe includes List of required ingredients, Instructions to prepare the food and related video tutorial for user convenience.
2. **Signup/Login Module:** User can visit the website as a casual visitor where he/she can view a limited number of recipes with some restrictions. To remove all the restrictions, and to get access to all functionalities, user have to register themselves on our website after which they will become our permanent user and will get all the access which are giving to our users. After registration, each user will have their unique user id and password which will be required in login every time they visit our website.
3. **Rate** **Recipe Module:** If a person likes or dislikes a recipe, he can't rate it as a visitor but after registering themselves on the website, user can rate a recipe on a scale of 5 as per their opinion. Along with this, user can also share their opinion on the recipe as comment. Comment and Rating would be stored in the database and would be displayed onto the screen.
4. **Add Recipe Module:** After Signup/Login, user can also add a recipe of their own in a particular category and sub-category by providing all the required details like Ingredient List, Steps of Preparation and the url of the video tutorial. After providing all the details, user's recipe would be added in the selected category. User can view their added recipe inside a separate panel.
5. **Profile Update Module:** After Login/Signup user can view their details under profile section and if by mistake, user have entered some wrong details during registration, he/she can change it easily under the profile section. After updation, the updated details would be shown in profile section.

**TEAM CONTRIBUTION**

Our Project team consists of 4 members and each member will have their equal contribution in the development of this project.

**TEAM DETAILS**

1. **Kartik Agrawal**

Github Account - kartikagrawal3a

University Roll No. - 181500311

Kartik Agrawal will look after the the structure, layout of the website as well as backend. So he will be working on HTML, CSS, Bootstrap and PHP.

1. **Tushar Gupta**

Github Account - tushar-manish

University Roll No. - 181500760

Tushar Gupta will look after layout, responsiveness and functioning of the website. The basic field of working are CSS, Bootstrap and JavaScript.

1. **Yash Vardhan Gautam**

Github Account - yashgautam172000

University Roll No. - 181500830

Yash Vardhan Gautam will look after the Structure, layout and functioning of the website. The basic field of working are HTML, CSS and JavaScript.

1. **Anubhav Nag**

Github Account - anubhav-nag

University Roll No. - 181500109

Anubhav Nag will look after the layout and responsiveness of the website as well as Database. The basic field of working are CSS, Bootstrap and SQL.

These are the roles and responsibilities of each member of the group. But it doesn't mean that every member is restricted to work on their part only. All the group members will help each other and make this project successful.

**LIMITATION OF THE PROJECT**

Though we have made a lot of effort in deciding the idea and functionality of the project but as we all know that nothing is totally perfect, this project also have some limitations. Food and innovations in food covers a very large variety and there are numerous food recipes of different genre of food across the world, but in this project, we are covering a limited range of food recipes which will be classified into 3 main categories because our primary concern is to provide a interactive and user interface of the website using front-end technologies.

As we all know that there are different ways of cooking a dish and each recipe has it's unique identity, but FLAVOURZILLA will only be showing a single approach to prepare a dish. Analyzing different recipes for a single dish and presenting it to the user can' not be achieved now.

**ONLINE GIT REPOSITORY**

For more details and Project Schedule, kindly refer to the link mentioned below

<https://github.com/kartikagrawal3a/fullStackProject>

**CONCLUSION**

The project named FLAVOURZILLA is basically a Food Recipe Provider. It is a web application which will be helpful for many types of people like those who love food and try to do experiments with the ingredients and for those who have to make their own meals and don't have enough time to checkout different platforms for appropriate information like Students, working youngsters who live away from their homes. As we have discussed above, user can get their desired recipe by selecting the appropriate category and the recipe would contain all that stuff that would be enough to prepare the food. As a visitor user can only view the recipes with restriction, but after registering themselves user can rate a recipe as per their opinion and can add a new recipe inside a particular category.

At this time, the primary concern of the project is to provide synergistic and user-friendly interface for the website and for this purpose various front-End technologies are going to be used like HTML for providing the Structure to every webpage of the website, CSS for describing the presentation of the webpages like color, margin, padding, font etc, JavaScript for providing dynamic and interactive experience to the user, Bootstrap for making the website responsive as per device like LED screens, PC, Laptops, Tablets, Smartphones. Other than these technologies several Back-end technologies are also going to be used for connecting to the server and data storage. These technologies are PHP( for server side scripting and connecting database to the website) , SQL( for storing data into database).

By the completion of this project, every member of this group will learn all these respective technologies and will be able to work well on all these technologies. This project will help us to learn team ethics and management, task management and many more skills other than all mentioned technical skills.

**REFERANCES**

* www.wikipedia.org
* www.quora.com
* www.stackoverflow.com
* www.getboostrap.com
* www.php.net