

IT 414  
Software Project Management

## **Project Report**

**Date:** 20/12/2021

**Group: 11**  
(Team 1: Mentor- Ms. Ami Pandat)

**Group Members:**  
Mahi Patel (201801039)  
Vanshika Kochhar (201801104)  
Pragati Sharma (202012047)

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## ❖ PROJECT TEAM DETAILS

NAME	ROLES
Pragati Sharma (202012047)	Project Manager, Planning
Mahi Patel (201801039)	Mainly Backend Developer
Vanshika Kochhar (201801104)	Mainly Frontend Developer

## ❖ PROJECT BACKGROUND

### 1. Project Purpose:

Cooking is an activity involved in everyone's lives; it is used for the basic sustenance of human life. It is also important for many individuals to try new foods and explore new recipes. In addition, this information can be made readily available online. Therefore, this project aims to allow users a platform where they can access, rate, and share different recipes; allowing them to explore, assess, and contribute all on one platform.

### 2. Project Scope:

The site will allow access to all recipes for all users, which they will then be able to rate in order to convey their opinions to other users without the necessity of one-to-one communication. Users of the site will also be able to share their own recipes anonymously so as to discard any necessity of logging in.

### 3. Relevant background information:

A recipe is a step-by-step process describing the making of a dish. It serves as an instruction manual for anyone who wants to try making any particular dish. Recipes usually include the required ingredients along with detailed instructions on how to use them. Hence this platform provides the users an easy way to access these recipes and also add them in a proper format for others to view.

## ❖ PROJECT PERSPECTIVES

- 1. Users:** Any and all individuals looking for recipes for particular dishes or simply trying to find a dish to try and want to share their recipes on the platform.
- 2. Stakeholders:** These are the website users who wish to contribute to the community by adding the recipes and the project development team who maintain the database.

## ❖ PROJECT OBJECTIVES

### 1. Business Rules of the system:

- a. Only users will be allowed to rate recipes; no interception from the system will be included so as to keep the ratings unbiased and the feedback user-based.
- b. All recipes added to the website must follow a particular pattern to maintain uniformity for all users.
- c. All recipes must be accessible by all users irrespective of the rating of the recipe.

### 2. Functional and Non-functional requirements:

Functional requirements:

- a. **Login:** Users will be able to login into the system
- b. **Search Recipe:** Users will be able to search for any particular recipes on the website.
- c. **Review a Recipe:** Users should be able to review and rate any recipe
- d. **Add Recipe:** Users will be able to share any new original recipes of their own with all other users of the platform.
- e. **Edit Recipe:** Users will be able to make simple edits to any recipes that they have shared.
- f. **View Recipe:** Users will be able to view all shared recipes by all users of the website.
- g. **Wishlist:** The users should shortlist recipes.

Non-functional requirements:

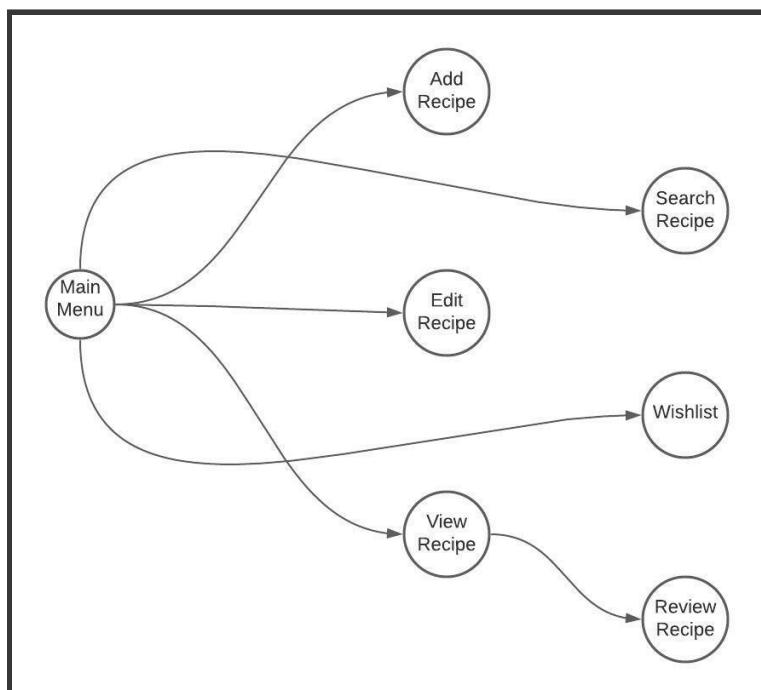
- a. **Scalable:** Scalable database should be used to store huge recipe set.
- b. **Consistency:** Additions and edits to any information on the website should be consistent with the data stored in the server.
- c. **Performance:** The response time for any query to the server should be as short as possible to enhance the user experience.
- d. **Ease of Use:** The interface developed should be user-friendly so as to accommodate all and any users of the platform.

### 3. System information and diagrams:

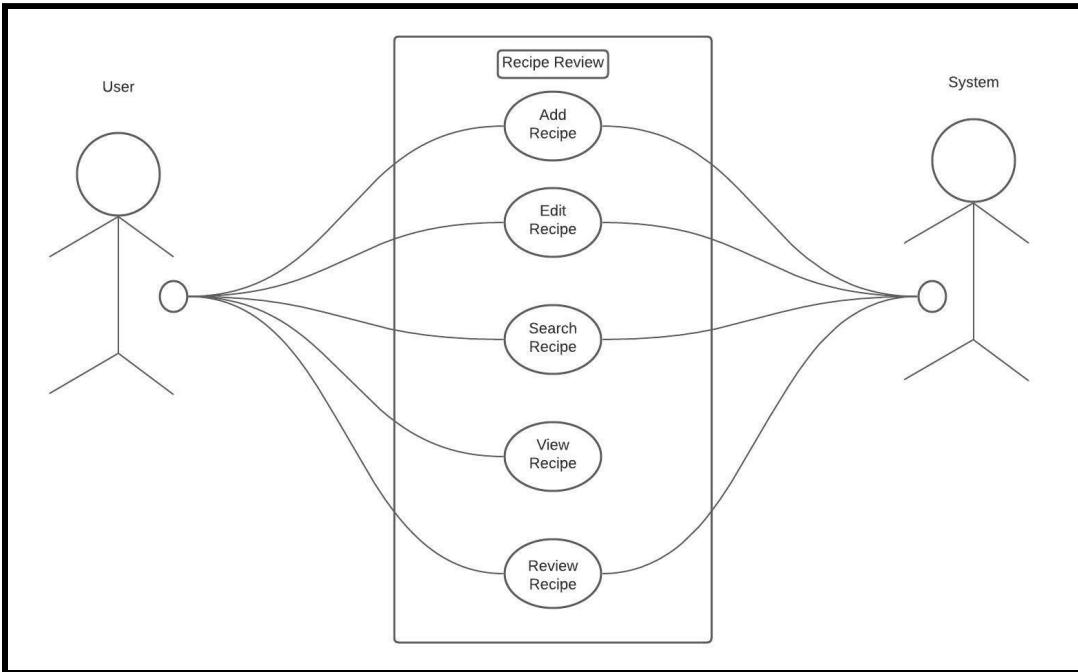
- a. The recipe review application is titled: "FindFood".
- b. It consists of mainly two features:
  - i. Searching the desired recipe: Finding the desired food recipe based on the ingredients and food title. It also allows the user to review a particular recipe and edit the contents like adding any extra ingredient or updating descriptions and directions.
  - ii. Adding any new recipe: The users are also allowed to add new recipes so that others can access the recipe.

All the web application features are described in the form of a diagram.

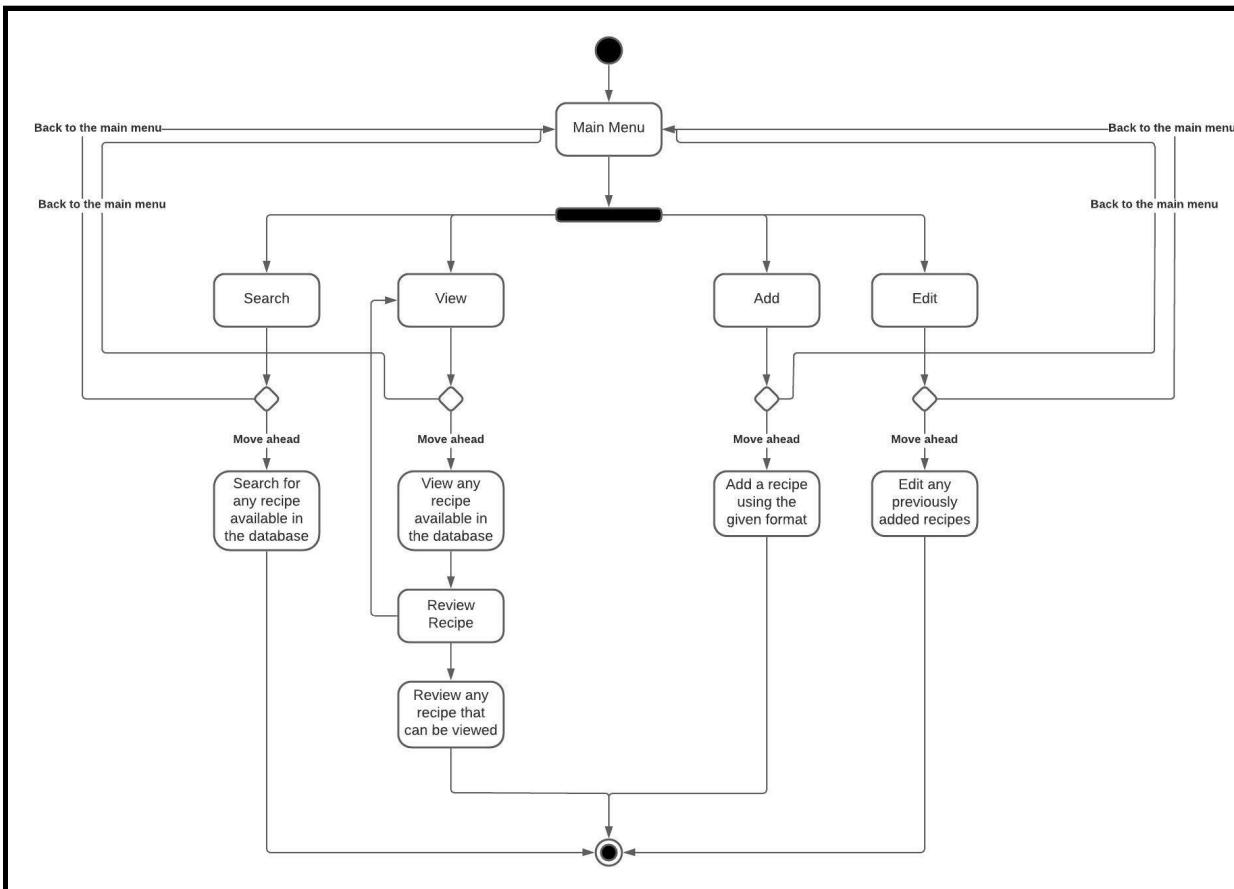
Concept Map:



Use Case Diagram:



Activity Diagram:



#### 4. Tasks and their estimates:

##### Requirement analysis:

This phase includes collecting and understanding the customer requirements as per their expected product. Using various requirements gathering techniques we gathered the end-user requirements according to which potential solutions were identified.

TOTAL DURATION: Sep 15, 2021 - Sep 26, 2021

ACTIVITY	RESOURCES REQUIRED	DURATION	DONE BY
<b>Conducted Interviews:</b> Interviewing potential users and identifying user stories to gain a better understanding of the problem statement.	An interviewee, a prepared set of questions and a room for the interview.	Sep 15, 2021 - Sep 16, 2021 2 days	Pragati Vanshika Mahi
<b>Literature review of the other existing websites:</b> Researched and analyzed various existing websites based on the problem statement	Other existing websites related to recipe review.	Sep 15, 2021 - Sep 17, 2021 3 days	Pragati Vanshika Mahi
<b>Brainstorming:</b> Understanding the issues in the existing system and identifying the potential solutions to them.	An online video-communication platform.	Sep 15, 2021 - Sep 16, 2021 2 days	Pragati Vanshika Mahi
<b>Identifying stakeholders and users:</b> Defining the project solutions based on the potential users.	Various Domain experts and Industry analysts.	Sep 22, 2021 1 day	Vanshika
<b>Identifying functional and non-functional requirements:</b> Finding functional and non-functional requirements as per the user stories and requirements gathered.	None	Sep 23, 2021 - Sep 25, 2021 3 days	Pragati Mahi
<b>Creating a concept map:</b> Creating a basic structure of the project features.	Lucid Chart	Sep 26, 2021 1 day	Vanshika

## Planning:

This phase includes discipline addressing on how to complete a project in a certain timeframe, usually with defined stages and designated resources. Through various surveys and interviews, all the inputs are taken, end users are identified and then a basic approach of the final product is planned.

TOTAL DURATION: Sep 27, 2021 - Oct 11, 2021

ACTIVITY	RESOURCES REQUIRED	DURATION	DONE BY
<b>Creating Sprints and assigning issues:</b> Using a software project management tool, JIRA, the project is planned. It starts with creating sprints and different tasks within it are created and assigned to the team members. The sprints are created based on the milestone to achieve.	JIRA Software, TeamGantt	Sep 27, 2021 - Oct 2, 2021 6 days	Pragati Vanshika Mahi
<b>Identifying dependencies of the various tasks:</b> To highlight the dependency and its type for various tasks.	JIRA Software, TeamGantt	Oct 3, 2021 - Oct 7, 2021 5 days	Mahi
<b>Designing the project roadmap:</b> Creating a rough roadmap by understanding different tasks and their durations. This will give a rough estimate about the pace of the project.	JIRA Software, TeamGantt	Oct 7, 2021 - Oct 11, 2021 5 days	Pragati
<b>Noting all the retrospectives and minutes of the meeting:</b> Writing down all the details discussed and outcomes of the meeting and also keeping an update on the agendas.	JIRA Software, TeamGantt	Oct 7, 2021 - Oct 10, 2021 4 days	Vanshika
<b>Creating various charts:</b> Creating velocity charts and sprint burndown charts to analyze project progress.	JIRA Software, TeamGantt	Oct 7, 2021 - Oct 10, 2021 4 days	Mahi

## **Designing:**

In this stage, various design approaches are defined based on the requirements. It states the product architecture. All the approaches here are reviewed by the stakeholders to decide the best of them based on time constraints, budget, risks involved. So, the final approach of software development is decided here.

TOTAL DURATION: Oct 21, 2021 - Nov 3, 2021

ACTIVITY	RESOURCES REQUIRED	DURATION	DONE BY
<b>Finalizing the proposed project solutions:</b> Discuss various approaches to develop features and finalize the most appropriate way to do the same.	None	Oct 21, 2021 - Oct 25, 2021 5 days	Pragati Vanshika Mahi
<b>Deciding about the tech stacks used for the development:</b> Finalizing the tech stacks used. In our project, we plan to use the MERN stack.	None	Oct 26, 2021 - Oct 27, 2021 2 days	Pragati Vanshika Mahi
<b>Designing UI of the web pages :</b> Creating interfaces of the web pages to be developed on Figma based on the website theme and making it more user-friendly.	FIGMA Tool	Oct 30, 2021 - Nov 3, 2021 5 days	Pragati

## **Development:**

In this stage, the real implementation of the product starts and it is built by the developer once the design document is formed.

Using various tools and decided technology stack and following the programming guidelines, various components like frontend, backend, and databases of the application are developed.

TOTAL DURATION: Nov 5, 2021 - Nov 28, 2021

ACTIVITY	RESOURCES REQUIRED	DURATION	DONE BY
<b>Creating the database:</b> Forming the database of different collections(tables) based on valid attributes and keys along with finding the dependencies associated with other collections.	MongoDB	Nov 5, 2021 - Nov 6, 2021 \ 2 days	Mahi
<b>Connecting the backend to the NodeJS server:</b> After forming collections, the database of MongoDB is connected to the NodeJS server to store the data of the website on MongoDB.	VS Code, MongoDB	Nov 7, 2021 - Nov 8, 2021 2 days	Mahi
<b>Creating a React base application:</b> Using VScode application, React base application is created to have the further development	VS Code	Nov 9, 2021 - Nov 10, 2021 2 days	Vanshika
<b>Developing Search Recipe Page:</b> Creating a Search recipe page where the user can search for the desired recipe and get multiple results based on the input value.	VS Code	Nov 17, 2021 - Nov 21, 2021 5 days	Pragati
<b>Developing View Recipe Page:</b> Creating a view recipe page where details including ingredients and method of a particular recipe are displayed to the user.	VS Code	Nov 17, 2021 - Nov 24, 2021 7 days	Vanshika
<b>Adding Reviews:</b> Creating a section for the user to add the reviews for a particular recipe and give ratings to the same.	VS Code	Nov 25, 2021 - Nov 28, 2021 4 days	Vanshika

<b>Developing Add Recipe Page:</b> Creating an add recipe page where the user can add a particular recipe by embedding a youtube link or by filling in all the details.	VS Code	Nov 17, 2021 - Nov 27, 2021 10 days	Pragati
<b>Developing an API for recipes:</b> Creating an API on Heroku to keep all the added recipes in the database to access the whole data in any local server	VS Code	Nov 17, 2021 - Nov 23, 2021 6 days	Mahi

### Testing:

This phase consists of organizing, controlling, ensuring traceability and visibility of the testing process in order to deliver the high-quality software application.

Testing identifies all the defects in the code which are then rectified by the developers and it helps to check the proper functioning of the website.

TOTAL DURATION: Nov 29, 2021 - Dec 2, 2021

ACTIVITY	RESOURCES REQUIRED	DURATION	DONE BY
<b>Static Analysis:</b> Analysis of source code, its cleanliness, variable and function use, syntactical errors etc without executing the application.	CSS lint, JS lint, VS code, Github	Nov 29, 2021 - Nov 30, 2021 2 days	Vanshika
<b>GUI Testing:</b> After analyzing the source code, GUI Testing is performed that checks the Graphical User Interface of the software to ensure the functionalities work as per specifications.	Google inspect window, VS code, Google chrome	Dec 31, 2021 - Dec 2, 2021 3 days	Pragati

## 5. Dependencies

Task A	Task B	Type of Dependencies
Conducting interviews	Identifying stakeholders and users	Finish to Start
Literature study of similar websites	Identifying stakeholders and users	Finish to Start
Brainstorming	Identifying stakeholders and users	Finish to Start
Identifying stakeholders and users	Identifying functional and non-functional requirements	Finish to Start
Identifying functional and non-functional requirements	Creating a concept map	Finish to Start
Creating a concept map	Creating sprints and assigning issues	Finish to Start
Creating sprints and assigning issues	Identifying dependencies of the various tasks	Finish to Start
Creating sprints and assigning issues	Creating various charts	Finish to Start
Creating sprints and assigning issues	Noting retrospectives and minutes of meeting	Finish to Start
Identifying functional and non-functional requirements	Deciding about the tech stacks used for development	Finish to Start
Finalizing the proposed project solutions	Deciding about the tech stacks used for development	Finish to Start
Deciding about the tech stacks used for development	Designing UI of the web pages	Finish to Start
Designing UI of the web pages	Creating the database	Finish to Start
Creating the database	Connecting the backend to the NodeJS Server	Finish to Start
Creating a react base application	Developing Search Recipe Page	Finish to Start

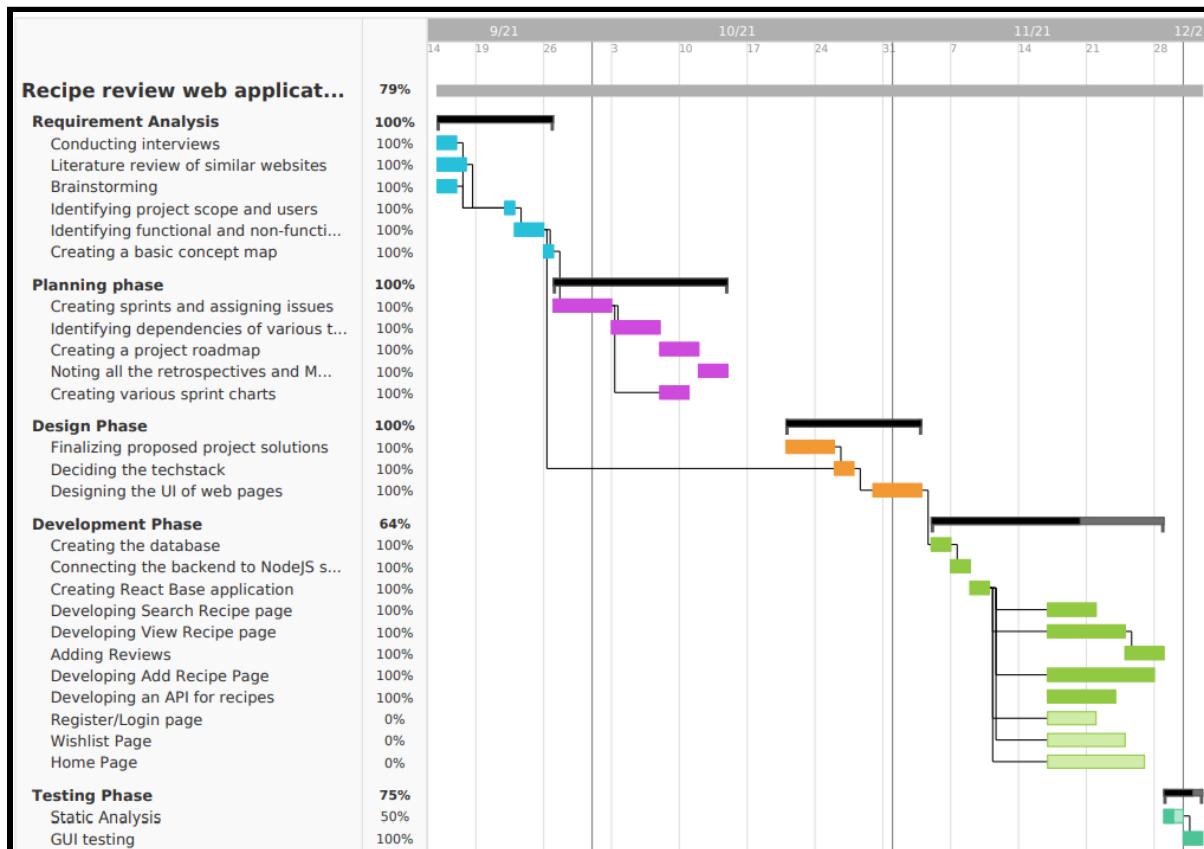
Creating a react base application	Developing View Recipe Page	Finish to Start
Developing View Recipe Page	Developing an Adding Reviews Page	Finish to Start
DEVELOPMENT	TESTING	Finish to Start

## 6. Assumptions

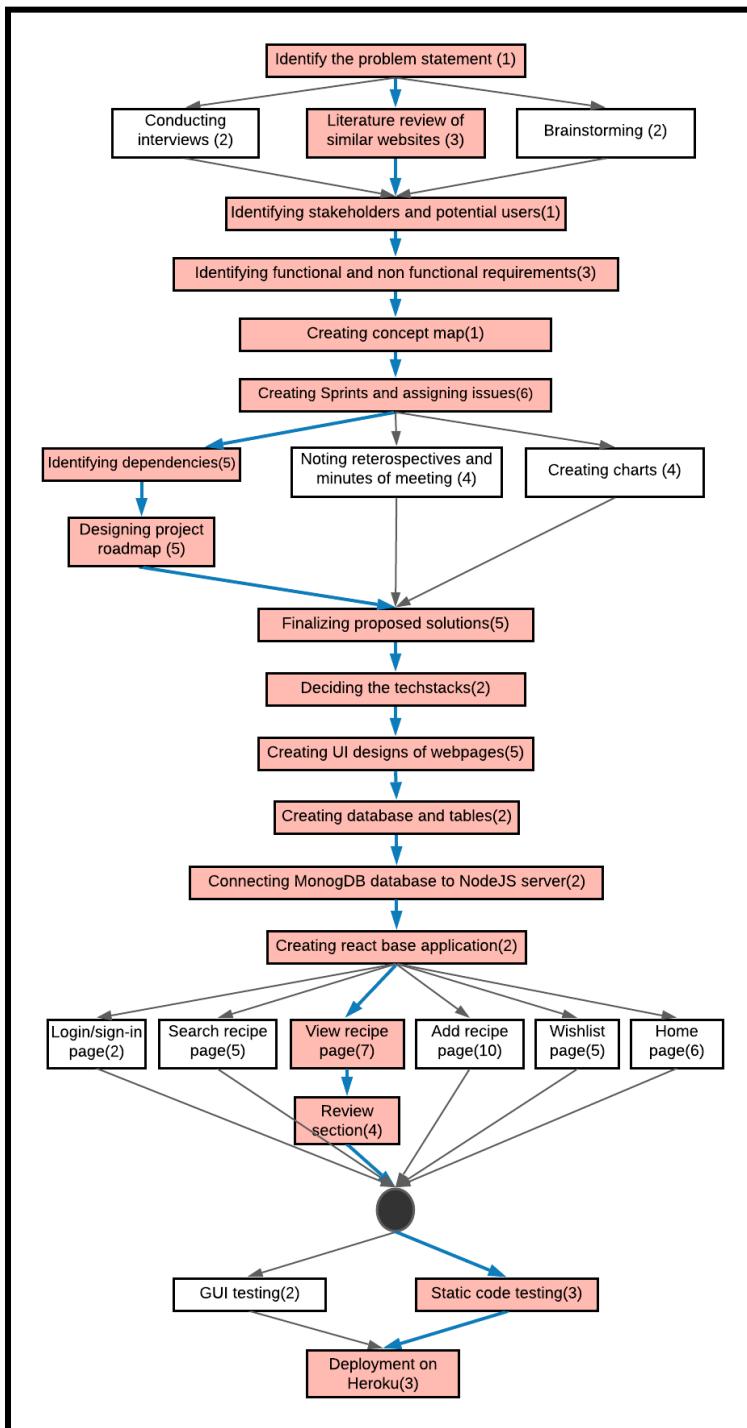
The web application assumes the following:

- a. The recipes entered by the users are authentic.
- b. The users don't fake the data while editing the information.
- c. The ratings given by the users are from 0-5 stars and the average review is also represented as a whole number between 0-5.
- d. The users prefer to add the recipes so as to expand the search API

## 7. Project plan



## 8. Critical Path



The activities in the diagram have their duration written in the bracket daywise. The critical path is calculated by finding the longest route with maximum duration depicting the optimal plan and duration of the project. Delay in critical path will cause delay in the schedule too.

For our project, the total duration calculated from critical path is: 58 days (2 months approx.)

## **9. Design and implementation constraints**

- First, we used a prebuilt API to search any recipe but later we found that its data is constant and we were unable to edit it. So, we had to create our own API with limited data. So, the limited data became the constraint.
- Due to limited data, we were unable to apply different filters on search.
- We were unable to convert the UI designs on Figma to JS code using available plugins and else were paid.
- Due to time constraints, we left some of the issues unresolved.

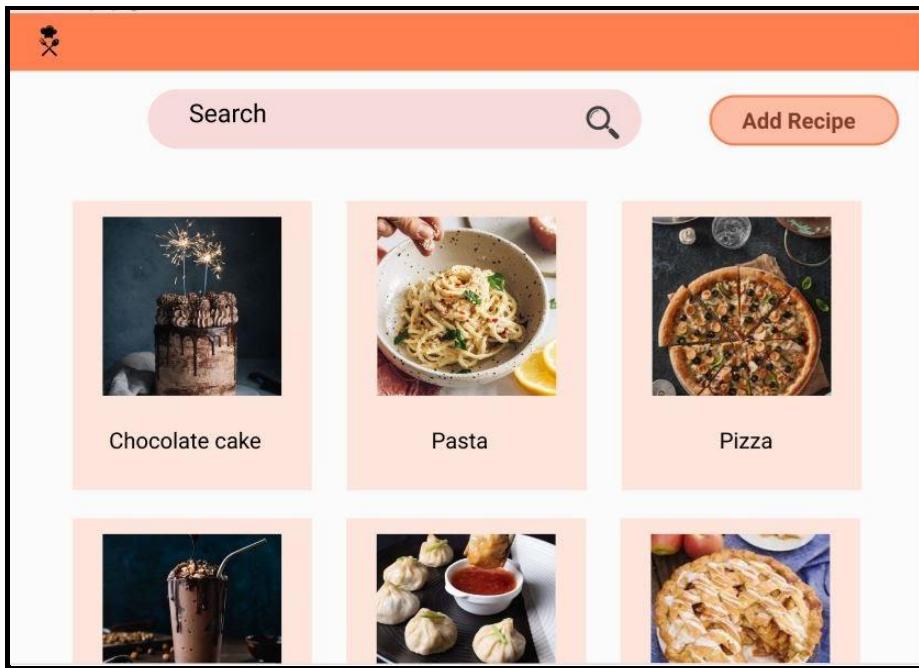
## **❖ RISK ANALYSIS & ASSESSMENT**

RISKS	MITIGATION STRATEGIES
The website is highly user-dependent i.e. the database expands only when the user adds recipes. Hence, users may be unable to find the required recipe.	We can create an API consisting of a huge number of verified recipes with the description. This will help the users to get the desired recipe.
Users might not trust numerical ratings to judge a recipe.	We can add a comment section wherein the user can add their respective reviews for each recipe and using NLP and ML techniques analyze the overall score of the recipes.

## **❖ UX/UI DESIGNS:**

These designs were explicitly made simple and user-friendly since it is made for users of all age groups and hence all should feel comfortable using the same.

## Home Page



## Add recipe Page

The Add Recipe form consists of the following fields:

- Upload image (with camera icon)
- Category
- Title
- Ingredients
- Description
- Steps
- Insert Link (with link icon)
- Cancel
- Add

View recipe Page



**Pizza - (3 stars)** 

**Description**

*Pizza is a worldwide favorite. The reason for pizza spread is that you can add anything to it and eat it anytime of the day and anywhere. The pizza originated in Italy and it is one of the favorite foods for adults and children. It was originally dough with topping of any ingredients as meat or vegetables that baked in the oven..*



**Pizza - (3 stars)** 

**Directions**

Step 1 : Start  
Step 2 : Make Pizza  
Step 3 : Done  
Step 4 : Start Step 2 : Make Pizza  
Step 5 : Done  
Step 6 : Start  
Step 7 : Make Pizza  
Step 8 : Done  
Step 9 : Start Step 2 : Make Pizza  
Step 10 : Done

## Implemented page designs:

### Home page:

FindFood

Search

+ Recipe



Vegan  
Cola marinated steak - 1600 Cals (4★)  
Tattooed austin fixie, microdosing single-origin coffee forage thundercats whate...  
[Read More →](#)



Salad  
Spaghetti Carbonara - 900 Cals (3★)  
Tattooed austin fixie, microdosing single-origin coffee forage thundercats whate...  
[Read More →](#)



Vegan  
Apple Pie - 1300 Calories (5★)  
Tattooed austin fixie, microdosing single-origin coffee forage thundercats whate...  
[Read More →](#)



Wraps  
Mexican Burrito (4★)  
This Vegetarian Burrito Recipe is full of the flavors of Mexico. If you are in n...  
[Read More →](#)



Italian  
Pizza (3★)  
Great snack to have...  
[Read More →](#)



Dessert  
White cake (4★)  
This cake was sent home from our children's school. It is the simplest, great ta...  
[Read More →](#)



Italian  
French Bread Pizza (4★)  
? A build-your-own-pizza night! These clever French bread pizzas are quick and e...  
[Read More →](#)



Dessert  
Oreo Milkshake (4★)  
This oreo milkshake recipe should be on the summer menu of everyone who loves th...  
[Read More →](#)



Snack  
Tandoori Chicken Sandwich Recipe - 442 Calories (3★)  
Be it breakfast, lunch or dinner, this Tandoori Chicken Sandwich is ideal for an...  
[Read More →](#)



Dessert  
Chocolate Yoghurt (5★)  
Home » Dessert Recipes » Homemade Chocolate YOGURT Las...  
[Read More →](#)



Dessert  
Chocolate Sandwich (4★)  
The yummy quick snack for the children. It can be served as a perfect dessert to...  
[Read More →](#)



Snack  
Veg cheese sandwich (5★)  
Serve veg cheese toast sandwich with green chutney or tomato sauce, potato wafer...  
[Read More →](#)



Snack  
Paneer Samosa (4★)  
Samosa cones filled with a delectable and tangy paneer stuffing, baked perfectl...  
[Read More →](#)



Chinese  
Burnt Garlic Noodles (4★)  
Garlic even when sauteed till well browned gives a wonderful flavour. Noodles coo...  
[Read More →](#)



Italian  
White sauce pasta (4★)  
This Creamy Garlic Penne Pasta is a white sauce pasta that is great on its own...  
[Read More →](#)

FindFood

f t i n

## Add recipe

The screenshot shows the FindFood app's 'Add Recipe' screen. At the top right is a red button labeled '+ Recipe'. The main area contains several input fields:

- Category:** A dropdown menu with the placeholder 'category'.
- Title:** An input field with the placeholder 'title'.
- Image:** An input field for 'image url'.
- Ingredients:** An input field for 'Recipe ingredients'.
- Description:** An input field for 'Description'.
- Directions:** A text area for 'Directions' with the placeholder 'Directions'.

Below the form, there are two recipe cards:

- Cola marinated steak** - 1600 Cals (4★)  
Tattooed austin fixie, microdosing single-origin coffee forage thundercats whate...  
[Read More →](#)
- Apple Pie** - 1300 Calories (5★)  
Tattooed austin fixie, microdosing single-origin coffee forage thundercats whate...  
[Read More →](#)

## Edit recipe

The screenshot shows the FindFood app's 'Edit Recipe' screen for 'Paneer Samosa'. At the top right is a red button with three dots. The main area contains several input fields:

- Category:** A dropdown menu with the placeholder 'Snack'.
- Title:** An input field with the placeholder 'Paneer Samosa'.
- Image:** An input field for 'Image' containing the URL <https://static.toiimg.com/thumb/52778107.cms?imgsrc>.
- Ingredients:** An input field for 'Ingredients' containing 'Paneer, Flour, Spices, Onions tomato'.
- Description:** A text area for 'Description' containing 'Samosa cones filled with a delectable and tangy paneer stuffing, baked perfect! Pair it up with mint'.
- Directions:** A text area for 'Directions' with the placeholder 'Directions'.

Below the form, there are two recipe cards:

- Paneer Samosa** (4★)  
Samosa cones filled with a delectable and tangy paneer stuffing, baked perfect! ...  
[Read More →](#)
- White sauce pasta** (4★)  
This Creamy Garlic Penne Pasta is a white sauce pasta that is great on its own,...  
[Read More →](#)

At the bottom left is the FindFood logo, and at the bottom right are social media sharing icons for Facebook, Twitter, Instagram, and LinkedIn.

## View recipe page

FindFood

Search

+ Recipe

Snack

### Paneer Samosa (4★)

Description Directions ★★★★★

Samosa cones filled with a delectable and tangy paneer stuffing, baked perfect! Pair it up with mint chutney and tamarind chutney and enjoy as an evening snack.



FindFood

Search

+ Recipe

Snack

### Paneer Samosa (4★)

Description Directions ★★★★★

**Step 1**  
Take crushed paneer, add chopped onions, fresh peas, ginger & garlic paste, red chilli powder and salt.

**Step 2**  
Mix it well. Squeeze the mix so that the whole mix binds together.

**Step 3**  
Make cones out of the samosa base and fill in the stuffing mix. Seal the edges of the base.

**Step 4**  
Grease the baking tray and place the samosas on it.

**Step 5**  
Bake them for half an hour at a temperature of 250-300 C.



## Review

FindFood

Search

+ Recipe

Snack

### Paneer Samosa (4★)

Description Directions ★★★★☆

**Step 1**  
Take crushed paneer, add chopped onions, fresh peas, ginger & garlic paste, red chilli powder and salt.

**Step 2**  
Mix it well. Squeeze the mix so that the whole mix binds together.

**Step 3**  
Make cones out of the samosa base and fill in the stuffing mix. Seal the edges of the base.



FindFood

Successfully rated recipe!

+ Recipe

Snack

### Paneer Samosa (4★)

Description Directions ★★★★☆

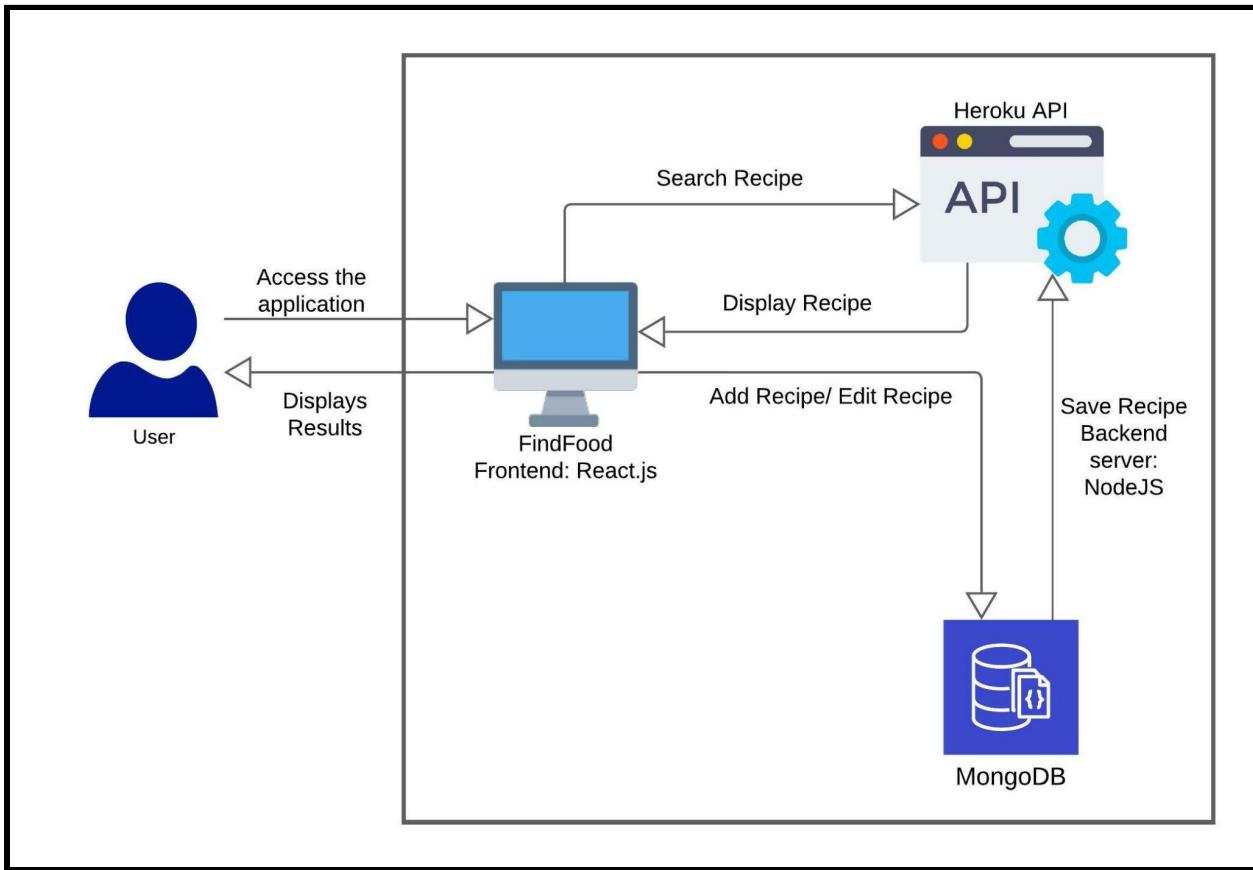
**Step 1**  
Take crushed paneer, add chopped onions, fresh peas, ginger & garlic paste, red chilli powder and salt.

**Step 2**  
Mix it well. Squeeze the mix so that the whole mix binds together.

**Step 3**  
Make cones out of the samosa base and fill in the stuffing mix. Seal the edges of the base.



## ❖ SYSTEM ARCHITECTURE



## ❖ TECH-STACK USED

- Frontend: ReactJS** - It allows the creation of reusable UI components and it is fast and simple to set up.
- Backend: NodeJS** - It allows easy integration with MongoDB.
- Database: MongoDB** - It is highly scalable and allows us to store a huge amount of data easily and this data is then stored in an API created on Heroku.

## ❖ WORK DISTRIBUTION

NAME	CONTRIBUTION IN PROJECT IMPLEMENTATION	CONTRIBUTION IN PROJECT DOCUMENTATION
Pragati Sharma (202012047)	<ul style="list-style-type: none"> <li>● Collected and analyzed the requirements of the project.</li> <li>● Designed the UI of web pages</li> <li>● Created the project roadmap</li> <li>● Developed dynamic search page.</li> <li>● Developed Add and edit recipe page.</li> <li>● Added Data to the API</li> </ul>	<ul style="list-style-type: none"> <li>● Managed the workflow of the entire project.</li> <li>● Added UX/UI designs.</li> <li>● Created System architecture diagram</li> <li>● Added design and implementation constraints.</li> <li>● Highlighted unresolved issues.</li> </ul>
Mahi Patel (201801039)	<ul style="list-style-type: none"> <li>● Collected and analyzed the requirements of the project.</li> <li>● Created and assigned dependencies to the project tasks</li> <li>● Created various charts to understand project progress.</li> <li>● Created the database to store recipe data.</li> <li>● Integrated MongoDB to NodeJS server</li> <li>● Created an API in Heroku to access the data from any local machine</li> </ul>	<ul style="list-style-type: none"> <li>● Added system information</li> <li>● Added the assumptions made</li> <li>● Identified potential risks and their mitigation strategies.</li> <li>● Created Project plan along with the description of various tasks.</li> </ul>
Vanshika Kochhar (201801104)	<ul style="list-style-type: none"> <li>● Collected and analyzed the requirements of the project.</li> <li>● Noted retrospective of sprints and minutes of meetings</li> <li>● Created concept map</li> <li>● Created ReactJS application.</li> <li>● Developed View recipe page along with the timeline.</li> <li>● Developed the mechanism to assign reviews to the recipe.</li> <li>● Added Data to the API</li> </ul>	<ul style="list-style-type: none"> <li>● Added project background</li> <li>● Created concept map</li> <li>● Created use case and activity diagram</li> <li>● Noted the task dependencies.</li> <li>● Added the future enhancements</li> </ul>

## ❖ FUTURE ENHANCEMENTS

- a. The recipe review web application can be enhanced by allowing the users to enter textual reviews to get a better judgment about the recipe.
- b. More filters can be added to search like filtering based on recipe category, ingredients, veg or non-veg, cuisine type, etc.
- c. The API can be expanded more by adding authentic recipes so that a wider range of searches is possible.

## ❖ UNRESOLVED ISSUES

Although we were able to achieve most of the tasks we decided in the project plan but due to certain time constraints, we were unable to accomplish a few of them:

- a. We decided to implement a wishlist page wherein the user can add his/her favorite recipes.
- b. For this, we needed users to register themselves. So, we decided to do it using Google Login API but we were unable to do so.
- c. Due to limited API, we were unable to sort the recipes based on reviews and also apply filters to the search results.

## ❖ IMPORTANT LINKS

- a. [Github : FindFood](#)
- b. [Project Report](#)
- c. [Requirement Analysis Document](#)
- d. [UI/UX Designs](#)
- e. [Concept Map](#)
- f. [Use Case Diagram](#)
- g. [Activity Diagram](#)
- h. [Project Plan](#)