Here’s your formatted project report with the added Requirement Analysis section:

# ****Project Report: BMI, Nutrition, and Diet Recipe Web Application****

## ****1. Purpose of the Project****

The main objective of this project is to develop a web-based application that helps users assess their Body Mass Index (BMI), gain knowledge about nutrition, and receive customized diet recipes. By combining BMI calculations, nutritional advice, and healthy meal suggestions, the web application serves as a comprehensive health tool aimed at improving user well-being.

The project aims to:

* **Calculate BMI**: Allow users to input their height and weight to calculate their BMI, determining whether they are underweight, normal weight, overweight, or obese.
* **Provide Nutritional Information**: Offer a user-friendly interface to display nutritional facts, focusing on promoting healthy eating habits.
* **Generate Diet Recipes**: Suggest personalized diet recipes based on the user’s BMI and nutritional requirements, encouraging healthy meal planning.

## ****2. Problem the Project Aims to Solve****

Many people are unaware of the relationship between their weight, height, and overall health. Additionally, poor diet and lack of knowledge about nutrition often lead to unhealthy eating habits. This project aims to address these issues by:

* Educating users about their health status through BMI calculation.
* Providing easy-to-understand nutritional facts and meal suggestions tailored to their specific needs.
* Encouraging healthier lifestyle choices through personalized diet plans and recipes.

The project aims to provide a simple and effective way for users to monitor their health and improve their eating habits, leading to better overall well-being.

## ****3. Requirement Analysis****

To ensure a well-structured and user-friendly web application, the following requirements were defined:

* **Home Page** should have a short introduction about the purpose of the application.
* **Projects Page** should display at least three projects with descriptions (if applicable).
* **Contact Page** should have an email form for user inquiries.
* **Website should be responsive** and mobile-friendly for better accessibility across different devices.

## ****4. Team Members and Responsibilities****

This project was developed by three students, with each person handling a specific part of the web application. Below are the assigned roles:

* **Manish (Front-end Development)**: Responsible for designing and developing the user interface of the web application using HTML and CSS. This student focused on creating an attractive, responsive layout for the BMI calculator, nutrition information, and recipe sections.
* **Manprabhnoor Kaur (JavaScript Logic)**: Responsible for implementing the BMI calculation logic using JavaScript. This student ensured that the application correctly calculated BMI based on the user's inputs and developed the logic for suggesting diet recipes based on the BMI category (e.g., underweight, normal weight, overweight).
* **Manu Sindhu (User Experience & Testing)**: Focused on ensuring the website was easy to use and intuitive. This student conducted user testing, gathered feedback, and ensured that all elements of the web application were functional and visually appealing.

## ****5. Project Roadmap****

To ensure the successful completion of this project, the following roadmap was outlined with key milestones:

| **Milestone** | **Description** | **Timeframe** |
| --- | --- | --- |
| Project Planning & Research | Defining the project goals, researching BMI, nutrition, and diet recipes | Week 1 |
| Front-end Development | Designing the user interface using HTML, CSS, and ensuring responsiveness | Week 2 |
| JavaScript Logic Development | Implementing BMI calculation logic and integrating the recipe suggestion system | Week 3 |
| User Experience Testing | Conducting testing, gathering feedback, and refining the design | Week 4 |
| Final Presentation | Preparing the final presentation and documentation of the project | Week 5 |

Each milestone allowed the team to stay on track and meet the deadlines efficiently.

## ****6. Technologies Used****

* **HTML**: For creating the structure and layout of the web application.
* **CSS**: For styling the user interface, making it visually appealing and responsive on different devices.
* **JavaScript**: For implementing the BMI calculation logic and dynamic functionalities, such as updating the suggested diet recipes based on the user’s BMI.

## ****7. Conclusion****

This project successfully achieves the goal of providing users with an easy-to-use platform for calculating their BMI, learning about nutrition, and receiving personalized diet recommendations. By leveraging web technologies like HTML, CSS, and JavaScript, the team was able to create a functional and user-friendly application that promotes healthy lifestyle choices. Through collaboration, effective time management, and thoughtful design, the project met its objectives and has the potential to benefit users looking to improve their health.