

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**“Jnana Sangama”, Belagavi-560014**



**DataBase Management System**

**Mini Project Report**

**On**

**“WON PEACE”**

**-Won peace refers to a personalized and optimized meal plan that promotes overall well-being and inner peace.**

**Submitted in partial fulfillment of the requirement of V Semester**

**DataBase Management System Laboratory(18CSL58)**

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**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**



This is to certify that the mini-project work entitled "**“WON PEACE”**" is carried out by **SHASHANK D (1RF20IS003)** and **VISHAL B (1RF20IS008)** in partial fulfillment for the requirement of V Semester DataBase Management System Laboratory(18CSL58) in **Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-2023. It is certified that all the corrections/ suggestions indicated for the given internal assessment have been incorporated in the report. This report has been approved as it satisfies the academic requirements with respect to the mini-project work.

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## TABLE OF CONTENTS

INDEX	TITLE	PAGE NO.
	ACKNOWLEDGEMENT	4
	ABSTRACT	5
	TABLE OF CONTENTS	3
1	INTRODUCTION	6
2	REQUIREMENT ANALYSIS	7
3	DESIGN	9
4	IMPLEMENTATION	12
5	TESTING	28
6	SNAPSHOTS	30
7	CONCLUSION AND FUTURE ENHANCEMENTS	35
8	BIBLIOGRAPHY	36

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## ABSTRACT

Introducing Won Peace, the ultimate solution for your dietary needs. Our personalized diet plan service caters to your unique nutritional requirements, taking into account your personal information, dietary restrictions, and medical conditions. Our user-friendly interface and simple registration process make it easy for you to input your information. Our advanced algorithm generates a customized diet plan that is tailored to your specific needs, including detailed food items, nutritional value, and suggested portion sizes. Our website also offers healthy recipes and tips for maintaining a balanced diet. Start your journey to a healthier, happier you today with Won Peace.

## CHAPTER 1

### INTRODUCTION

Introducing our cutting-edge diet plan website, designed to help you achieve your weight goals and optimal health. Our website is tailored to meet the individual needs of each user, taking into account factors such as age, height, sex and medical conditions. We understand that everyone has different dietary preferences and requirements, and that's why we have created a customized and personalized diet plan service that is tailored to your specific needs. Our registration process is simple and easy to use, allowing you to input your personal information, dietary restrictions, and fitness goals. Our sophisticated algorithm then processes this data and generates a unique diet plan that is tailored to your specific needs. The plan includes a detailed list of food items, their nutritional value and portion sizes, making it easy for you to stick to your diet and reach your desired results. Our website offers a wide range of healthy recipes, tips and suggestions for maintaining a balanced diet, and a community forum for sharing your progress with others. Our dashboard features a comprehensive list of foods for breakfast, lunch, dinner, and snacks, including protein content for your diet. The website also provides the feature of downloading your diet plan, with separate plans for breakfast, lunch, and dinner. Our website is designed to be easy to use, with no login required, you will have direct access to your customized diet plan. Additionally, the website provides the feature of resetting the diet plan, allowing you to update your information and adjust your diet plan as needed. Take control of your health and well-being with our personalized diet plan service. With our cutting-edge technology and expert guidance, you'll have all the tools you need to achieve your weight goals and optimal health. Start your journey today and experience the benefits of a tailored and customized diet plan.

## CHAPTER 2

# REQUIREMENT ANALYSIS

The key factors to consider while making a nutrition management system are:

- Understandability: The data provided to the user must be understandable since nutrition can be complicated to understand for a layman. The calories provided by each food item and the amount of servings.
- User Experience: The user should be able to navigate through the website easily and should be able to find the data they are looking for without any difficulty.
- Accuracy of Data: The nutritional data provided by us should be accurate since it directly determines which food should be eaten by the user. Our web application relies on the integrity of the data provided by us.

## 2.1 Software Requirements

- Our web application requires the operating system version Windows 7 or above to run.
- The Programming Language used is JavaScript ES6.
- Front-end Development is done by using HTML, CSS, Tailwind CSS
- Middleware Development which is used to connect the front end to back end is done through PHP.
- The Back-end Development is done by creating databases on mySQL.

## 2.2 Hardware Requirements

- Our web application requires the processor i3 8<sup>th</sup> gen or above to run smoothly.
- The minimum ram required for RAM is 4GB or more.
- The Hard Disk memory should be 5GB or more.

## 2.3 Functional Requirements

When defining the functional requirements for a nutrition management system based web application we need to consider the following features and functions:

- Customized Diet Plan: Provide a customized diet plan for every user based on the personal information entered by them Calories per 100g for all food items: Provide the calories per 100g for each food item in their diet plan.
- Download Option: Provide an option to download excel sheets of their diet plan so they can check it when they are offline and also take a printout to have a hardcopy with them.
- Snacks with recipes: Show snacks which can be eaten by anyone regardless of their allergies or medical conditions with easy recipes to make them.

These functional requirements will provide all the information and facilities that user might be looking for to start having a healthier life.

## 2.4 Non-Functional Requirements

- Usability: The app should be easy to navigate and understand for users of all ages and backgrounds.
- Performance: The app should load quickly and function smoothly, even with a large number of users.
- Scalability: The app should be able to handle an increasing number of users and data without compromising performance.
- Compatibility: The app should be compatible with multiple web browsers and devices.
- Maintenance: The app should be easy to update and maintain.
- Support: The app should have a support system for users to ask for help.
- Compliance: The app should be compliant with relevant laws and regulations.

## CHAPTER 3

# DESIGN

### 3.1 System Design

The system design explains how the web application works as the user navigates through the app. This helps us better understand the user experience and tailor it so it is ergonomically satisfying

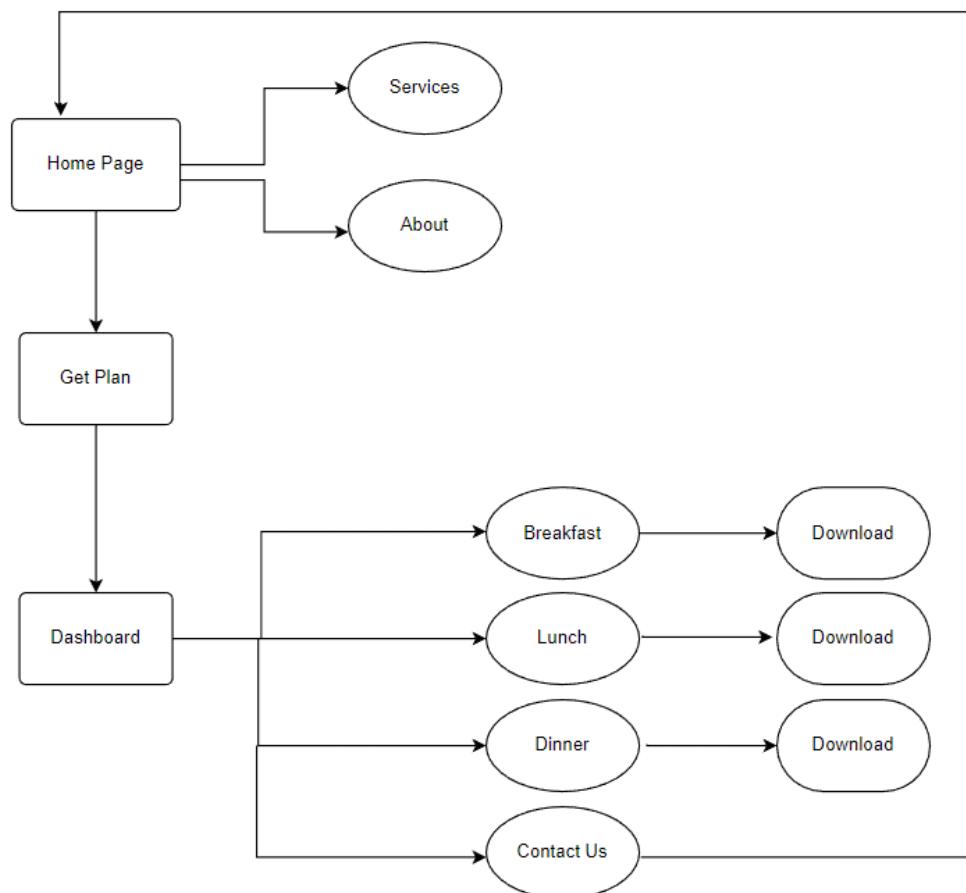


Figure 3.1 is System design of WON PEACE

### 3.2 ER Diagram

An ER (Entity-Relationship) model is a data modeling technique used to describe the structure of a database. The ER model is based on the concept of entities, which represent real-world objects or concepts, and the relationships between those entities.

We have 5 tables with Customer, Food, Customer\_Allergy, Allergy, Common\_Food.

Customer and Allergy Tables have been normalized to form Customer\_Allergy, to save multiple Allergies for a single User.

Relations- shown in Figure- 3.11

- Customer: Saves all the data input by the user to calculate the customized Diet Plan.
- Allergy:- has the list of all the Allergies/Medical Conditions That the user can opt to and get a diet plan which will eliminate that data.
- Customer\_Allergy:- Normalized table which gets multiple Allergy click options for single user
- Food:- Has a premade Table of 500+ Food items which will be presented after the user inputs his data for Breakfast, Lunch, Dinner .
- Common\_Food- Has a Table with custom recipes for snacks and will be displayed with the final Diet plan

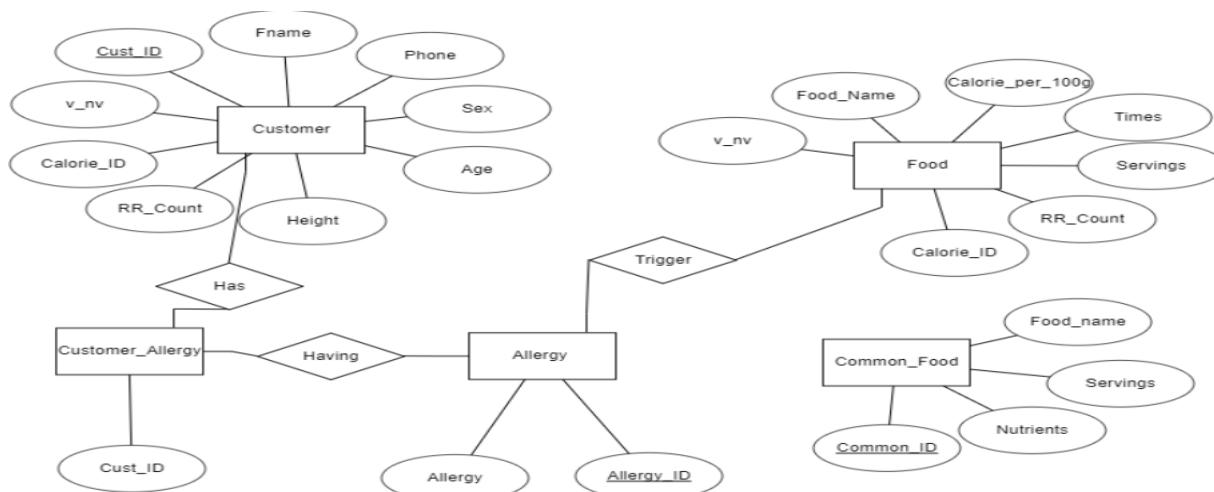


Figure 3.2 is ER of Won Peace shown

### 3.3 SCHEMA

A schema is a blueprint or a structure that defines the organization of data in a database. It describes the tables, fields, relationships, and constraints that make up the database. The schema serves as a map or a plan for the database, providing a clear and consistent way to organize and access the data.

Connections:- shown in Figure 3.21

- Customer to Customer\_Allergy is Connected through Cust\_ID
- Customer\_Allergy to Allergy is Connected through Allergy\_ID
- Allergy to Food is connected through Allergy\_ID
- Common Food has no connections to any of the tables as it is used to display the data on the front end side

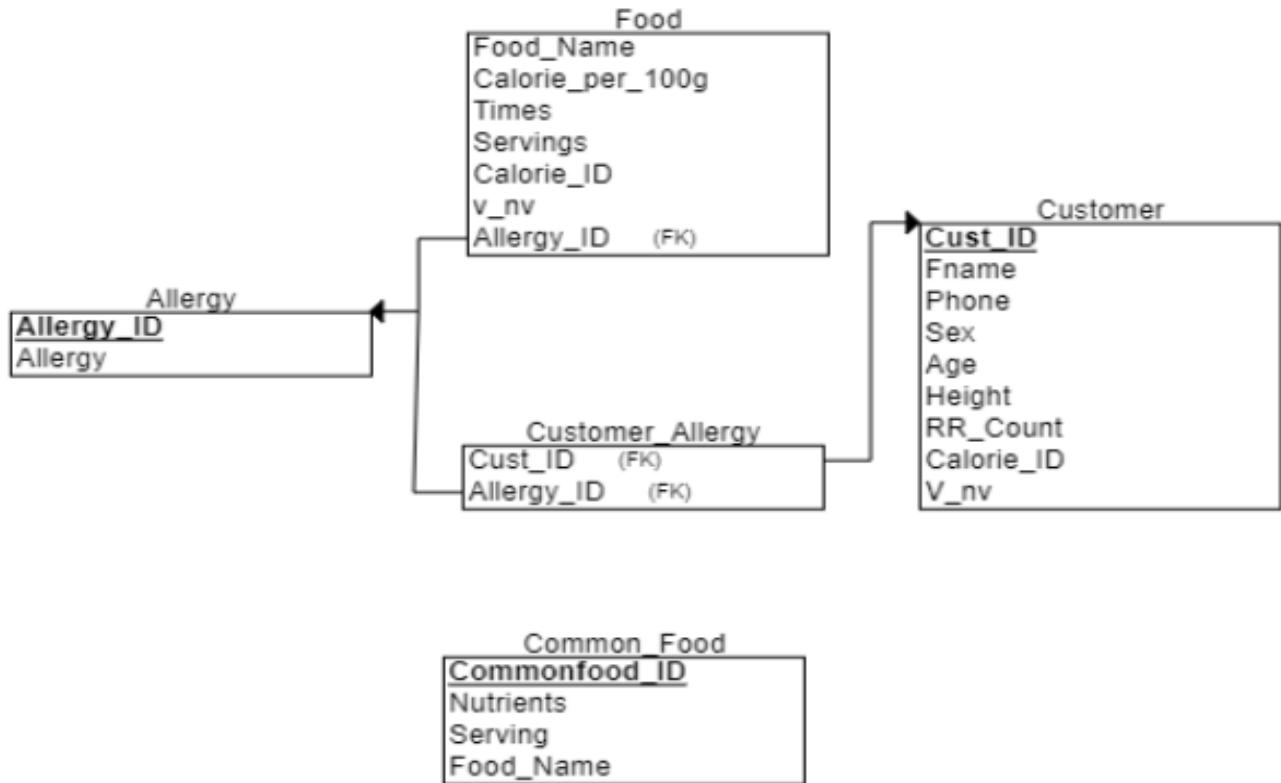


Figure 3.3 is Schema of Won Peace

## CHAPTER 4

# IMPLEMENTATION

### 4.1 Introduction to Front End Tool

- HTML 5:

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within a tag which defines the structure of web pages. HTML 5 is the fifth and current version of HTML. It has improved the markup available for documents and has introduced application programming interfaces(API) and Document Object Model(DOM).

- CCS:

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

- Tailwind Css

Tailwind CSS is a utility-first CSS framework that provides a set of pre-defined CSS classes that can be easily applied to HTML elements. These classes are designed to be highly composable, making it easy to create custom designs without writing a lot of custom CSS. Tailwind CSS is built with responsiveness in mind and provides a wide range of classes for controlling layout, spacing, typography, and more. One of the main benefits of Tailwind CSS. Additionally, Tailwind CSS provides a set of responsive design classes that make it easy to create responsive designs that adapt to different screen sizes. Another benefit of Tailwind CSS is its focus on accessibility.

In summary, Tailwind CSS is a utility-first CSS framework that provides a set of pre-defined CSS classes that can be easily applied to HTML elements. This approach makes it easy to create custom designs without writing a lot of custom CSS and is highly responsive, accessible and customizable.

## 4.2 Introduction to Middle End Tool

PHP (Hypertext Preprocessor) is a server-side scripting language that is widely used for web development. It is an open-source language, which means that it can be freely used, modified and distributed. PHP code is executed on the server, and the resulting HTML is sent to the client's web browser.

There are many tutorials, courses, and resources available online to help you learn PHP, from beginner-friendly tutorials to advanced guides for experienced developers. With its wide range of features, ease of use, and large community, PHP is a great choice for anyone looking to create dynamic web applications.

## 4.3 Introduction to Back End Tool

MySQL is a widely-used, open-source relational database management system (RDBMS) that is known for its reliability, performance, and ease of use. It stores data in tables, which are organized into databases, and uses SQL (Structured Query Language) as its primary interface for managing and querying data. MySQL is commonly used in web applications, data warehousing, and logging systems, and it is also a popular choice for small and medium-sized businesses. It is highly customizable, allowing users to fine-tune performance and optimize for specific workloads. It can run on various operating systems, including Linux, Windows, and MacOS, and it can be easily integrated with other technologies, such as PHP and Java. MySQL also offers an optional enterprise version, which includes additional features such as enterprise-level monitoring, performance tuning, and support. This version is intended for large-scale deployments and production environments. Overall, MySQL is a powerful and flexible database management system that is well-suited for a wide range of use cases and applications.

## 4.4 Modules

### 1. About Page:

```
<!DOCTYPE html>

<html lang="en">

<head>  <meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<link rel="preconnect" href="https://fonts.googleapis.com">

<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@100;300;400;500;700;900&display=swap" rel="stylesheet">

<title>Won Peace</title>

<!-- Bootstrap core CSS -->

<link href="vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">

<!-- Additional CSS Files -->

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css"
integrity="sha384-5oBUHEmvpQ+1IW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhnd
OJK28anvf" crossorigin="anonymous">

<link rel="stylesheet" href="assets/css/templatemo-chain-app-dev.css">

<link rel="stylesheet" href="assets/css/animated.css">
```

```
<link rel="stylesheet" href="assets/css/owl.css">

</head>

<body>

<!-- ***** Preloader Start ***** -->

<div id="js-preloader" class="js-preloader">

<div class="preloader-inner">

<span class="dot"></span>

<div class="dots">

<span></span>

<span></span>

<span></span>

<span></span>

</div>

</div>

</div>

<!-- ***** Preloader End ***** -->

<!-- ***** Header Area Start ***** -->

<header class="header-area header-sticky wow slideInDown" data-wow-duration="0.75s"
data-wow-delay="0s">

<div class="container">

<div class="row">

<div class="col-12">
```

```
<nav class="main-nav">

<!-- ***** Logo Start ***** -->

<a href="/About Page/index-aboutpage.php" class="logo">
    
</a>

<!-- ***** Logo End ***** -->

<!-- ***** Menu Start ***** -->

<ul class="nav">
    <li class="scroll-to-section"><a href="#top" class="active">Home</a></li>
    <li class="scroll-to-section"><a href="#services">Services</a></li>
    <li class="scroll-to-section"><a href="#about">About</a></li>
    <li><div class="gradient-button"><a id="modal_trigger" href=".register
page/index-register.php"><i class="fa fa-sign-in-alt"></i> GET PLAN</a></div></li>
</ul>

<a class='menu-trigger'>
    <span>Menu</span>
</a>

<!-- ***** Menu End ***** -->

</nav>

</div>

</div>
```

```
</div>

</header>

<div class="main-banner wow fadeIn" id="top" data-wow-duration="1s"
data-wow-delay="0.5s">

<div class="container">

<div class="row">

<div class="col-lg-12">

<div class="row">

<div class="col-lg-6 align-self-center">

<div class="left-content show-up header-text wow fadeInLeft" data-wow-duration="1s"
data-wow-delay="1s">

<div class="row">

<div class="col-lg-12">

<h2>Get the best Diet plan for FREE!!</h2>

<p>Welcome to our website! Here at Won Peace, we understand the importance of
maintaining a healthy diet and achieving your weight loss goals. That's why we have created a
comprehensive diet plan that is tailored to meet your individual needs and preferences. </p>

</div>

<div class="col-lg-12">

<div class="white-button first-button scroll-to-section">

<a> The first wealth is health</a>

</div>
```

```
<div class="white-button scroll-to-section">  
    <a> Life is a tragedy of nutrition</a>  
</div>  
  
</div>  
  
</div>  
  
</div>  
  
<div class="col-lg-6">  
    <div class="right-image wow fadeInRight" data-wow-duration="1s"  
        data-wow-delay="0.5s">  
          
    </div>  
  
</div>  
  
</div>  
  
</div>  
  
</div>  
  
</div>
```

```
<div class="col-lg-8 offset-lg-2">

    <div class="section-heading wow fadeInDown" data-wow-duration="1s"
        data-wow-delay="0.5s">

        <h4>Amazing <em>Diet Plan & Features</em> for you</h4>

        <p>Our website also offers a variety of tools and resources to help you stay on track,
        including meal plans, recipes.</p>

    </div>

</div>

</div>

</div>

<div class="container">

    <div class="row">

        <div class="col-lg-3">

            <div class="service-item first-service">

                <div class="icon"></div>

                <h4>Custom Diet plan</h4>

                <p>You get to choose dishes according to your allergies and medical conditions</p>

            </div>

        </div>

        <div class="col-lg-3">
```

```
<div class="service-item second-service">  
    <div class="icon"></div>  
    <h4>Nutrient Hack</h4>  
    <p>We provide a good amount of Snacks high in nutrients! </p>  
    </div>  
</div>  
  
<div class="col-lg-3">  
    <div class="service-item third-service">  
        <div class="icon"></div>  
        <h4>Auto Calculator</h4>  
        <p>No need to put your weight or BMI, our website calculates the perfect weight you  
should be and how much calories you need in a day and also provided the neccessary calores per  
meal!!</p>  
        </div>  
</div>  
  
</div>  
</div>  
  
<div id="about" class="about-us section">  
    <div class="container">
```

```
<div class="row">
  <div class="col-lg-6 align-self-center">
    <div class="section-heading">
      <h4>About <em>What We Do</em> & Who We Are</h4>
      
      <p>We are students of RVITM, we made this website as a part of our DBMS project. The calorie count may not be 100% accurate, there may be an error of ±10% </p>
      <p>Below are Our skills and achievemenets</p>
    </div>
  </div>
  <div class="row">
    <div class="col-lg-6">
      <div class="box-item">
        <h4><a href="#">Won Peace</a></h4>
        <p>Our Current project which is this Website is for</p>
      </div>
    </div>
    <div class="col-lg-6">
      <div class="box-item">
        <h4><a href="#">Communication Skills</a></h4>
        <p>We excel at Presenting and Communicating! </p>
      </div>
    </div>
  </div>

```

```
</div>

<div class="col-lg-6">

    <div class="box-item">

        <h4><a href="#">Competetive Coding </a></h4>

        <p>We Individually have intermeddiate level Coding skill, you can refer to our  
Leetcode Rank / link from our resume </p>

    </div>

</div>

<div class="col-lg-6">

    <div class="box-item">

        <h4><a>Leadership Skills</a></h4>

        <p>Strong interpersonal skills and ability to build and maintain positive relationships  
with colleagues, clients, and customers</p>

    </div>

</div>

<div>

    <div class="right-image">

    </div>

</div>
```

```
</div>

</div>

</div>

<!-- Scripts -->

<script src="vendor/jquery/jquery.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<script src="assets/js/owl-carousel.js"></script>

<script src="assets/js/animation.js"></script>

<script src="assets/js/imagesloaded.js"></script>

<script src="assets/js/popup.js"></script>

<script src="assets/js/custom.js"></script>

</body>

</html>
```

## 2.Registration form:

```
<body>
<div class="page-wrapper bg-gra-03 p-t-45 p-b-50">
    <div class="wrapper wrapper--w790">
        <div class="card card-5">
            <div class="card-heading">
                <h2 class="title">Registration Form</h2>
            </div>
            <div class="card-body">
                <form action="connect.php" method="POST">
                    <div class="form-row">
                        <div class="name">Name</div>
                        <div class="value">
                            <input class="input--style-5" type="text" name="Fname">
                        </div>
                    </div>
                    <div class="form-row">
                        <div class="name">Phone</div>
                        <div class="value">
                            <input class="input--style-5" type="text" name="Phone">
                        </div>
                    </div>
                    <div class="form-row">
                        <div class="name">Sex</div>
                        <div class="value">
                            <div class="input-group">
                                <div class="rs-select2 js-select-simple select--no-search">
                                    <select name="Sex">
                                        <option disabled="disabled" selected="selected">Choose option</option>
                                        <option value="Male">Male</option>
                                        <option value="Female">Female</option>
                                    </select>
                                    <div class="select-dropdown"></div>
                                </div>
                            </div>
                        </div>
                    </div>
                    <div class="form-row">
                        <div class="name">Age in years</div>
                        <div class="value">
                            <input class="input--style-5" type="number" name="Age">
                        </div>
                    </div>
                    <div class="form-row">
                        <div class="name">Height in inches</div>
                        <div class="value">
                            <input class="input--style-5" type="number" name="Height">
                        </div>
                    </div>
                <div class="form-row">
```

```
<div class="name">Lunch preferences</div>
<div class="value">
    <div class="input-group">
        <div class="rs-select2 js-select-simple select--no-search">
            <select name="RR_Count">
                <option disabled="disabled" selected="selected">Choose option</option>
                <option value="1">2 Roti+ Rice</option>
                <option value="2">3 Roti</option>
                <option value="3">Only Rice (no roti)</option>
            </select>
            <div class="select-dropdown"></div>
        </div>
    </div>
</div>
<div class="form-row">
    <div class="name">Veg/Non-Veg</div>
    <div class="value">
        <div class="input-group">
            <div class="rs-select2 js-select-simple select--no-search">
                <select name="v_nv">
                    <option disabled="disabled" selected="selected">Choose option</option>
                    <option value="1">Veg</option>
                    <option value="2">Non-Veg</option>
                </select>
                <div class="select-dropdown"></div>
            </div>
        </div>
    </div>
</div>
<div class="form-row">
    <div class="name">Allergies</div>
    <div class="value">
        <div class="input-group">
            <div class="rs-select2 js-select-simple select--no-search">
                <select name="allergies[]" multiple>
                    <option disabled="disabled" selected="selected">Choose option</option>
                    <option value="1">Lactose Intolerance</option>
                    <option value="2">Gluten Intolerance</option>
                    <option value="3">Diabeties</option>
                    <option value="4">Heart Disease</option>
                    <option value="5">Peanuts</option>
                    <option value="6">Tree Nuts</option>
                    <option value="7">Milk</option>
                    <option value="8">Eggs</option>
                    <option value="9">Wheat</option>
                    <option value="10">Soy</option>
                    <option value="11">Fish</option>
                    <option value="12">Shellfish</option>
                </select>
            </div>
        </div>
    </div>
</div>
```

Figure 4.4.1 is the Registration page of Won peace

## 2.Connect.php to connect the Registration page to the Database:

```
<?php
    // Connect to the database
    $conn = mysqli_connect("localhost", "root", "", "wptemp1");
    // Check for connection error
    if (!$conn) {
        die("Connection failed: " . mysqli_connect_error());
    }
    // Get the form data
    $Fname = $_POST['Fname'];
    $Phone = $_POST['Phone'];
    $Sex = $_POST['Sex'];
    $Age = $_POST['Age'];
    $Height = $_POST['Height'];
    $RR_Count = $_POST['RR_Count'];
    $v_nv = $_POST['v_nv'];
    $allergies = $_POST['allergies'];
    // Insert the data into the Customer table
    $query = "INSERT INTO Customer (Fname, Phone, Sex, Age, Height, RR_Count, v_nv, Cust_ID)
VALUES ('$Fname', '$Phone', '$Sex', '$Age', '$Height', '$RR_Count', '$v_nv', 1)";
    mysqli_query($conn, $query);
    $Cust_ID = 1;
    // Calculate the Calorie_ID
    if ($Sex == "Male") {
        $Calorie_ID = -5 * $Age + 32.875 * $Height - 453;
    } else {
        $Calorie_ID = -5 * $Age + 29.475 * $Height - 446;
    }
    // Constraint for Calorie_ID
    if ($Calorie_ID < 1125) {
        $Calorie_ID = 1000;
    }
    else if ($Calorie_ID >= 1125 && $Calorie_ID < 1375) {
        $Calorie_ID = 1250;
    }
    else if ($Calorie_ID >= 1375 && $Calorie_ID < 1625) {
        $Calorie_ID = 1500;
    }
    else if ($Calorie_ID >= 1625 && $Calorie_ID < 1875) {
        $Calorie_ID = 1750;
    }
    else if ($Calorie_ID >= 1875) {
        $Calorie_ID = 2000;
    }
    // Update the Calorie_ID in the Customer table
    $query = "UPDATE Customer SET Calorie_ID = '$Calorie_ID' WHERE Cust_ID = '$Cust_ID'";
    mysqli_query($conn, $query);
    // Insert the allergies into the Allergy table
    if (!empty($allergies)) {
        foreach ($allergies as $allergy) {
            $query = "INSERT INTO customer_allergy (Cust_ID, Allergy_ID) VALUES ('$Cust_ID', '$allergy')";
            mysqli_query($conn, $query);
        }
    }
    // Close the connection
    mysqli_close($conn);
    // Redirect to the dashboard
    header("Location: http://localhost/WP-NOLOG/about%20page/register%20page/dashboard/index-dashboard.php");
    exit;
?>
```

Figure 4.4.2 is the PHP code of Registration page of Won peace

### 3. DashBoard:

```
<section class="text-gray-600 body-font">
<div class="container px-5 py-24 mx-auto flex flex-wrap">
  <div class="lg:w-1/2 w-full mb-10 lg:mb-0 rounded-lg overflow-hidden">
    
  </div>
  <div class="flex flex-col flex-wrap lg:py-6 -mb-10 lg:w-1/2 lg:pl-12 lg:text-left text-center">
    <h1 class="text-gray-900 text-lg title-font font-medium mb-3">Breakfast</h1>
    <div class="overflow-y-auto bg-blue-200 p-3 w-fit h-96 text-justify">
      <div class="flex flex-col mb-10 lg:items-start items-center">
        <div class="flex-grow">
          <p class="leading-relaxed text-base">
            <?php
            // Connect to the database
            $conn = mysqli_connect("localhost", "root", "", "wptemp1");

            // Check for connection error
            if (!$conn) {
              die("Connection failed: " . mysqli_connect_error());
            }

            $sql = "SELECT Food_Name, Servings, Calorie_per_100g
            FROM Food
            WHERE Times = 'B' AND Calorie_ID = (SELECT Calorie_ID FROM Customer WHERE Cust_ID = 1)
            AND Allergy_ID NOT IN (SELECT Allergy_ID FROM customer_allergy WHERE Cust_ID = 1)
            AND (CASE
            WHEN (SELECT v_nv FROM Customer WHERE Cust_ID = 1) = 1 THEN v_nv != 2
            ELSE 1=1
            END)";

            $result = mysqli_query($conn, $sql) or die("Bad Query: $sql");
            echo "<table class='border-collapse border-2 border-gray-500'>";
            echo "<tr class='border-2 border-gray-500'><td class='p-2 border-2 border-gray-500'>Food Name</td><td class='p-2 border-2 border-gray-500'>Servings</td><td class='p-2 border-2 border-gray-500'>Calorie per 100g</td></tr>";
            while ($row = mysqli_fetch_assoc($result)) {
              echo "<tr class='border-2 border-gray-500'><td class='p-2 border-2 border-gray-500'>{$row['Food_Name']}</td><td class='p-2 border-2 border-gray-500'>{$row['Servings']}</td><td class='p-2 border-2 border-gray-500'>{$row['Calorie_per_100g']}</td></tr>";
            }
            echo "</table>";

            // Close the connection
            mysqli_close($conn);
          ?>
        </div>
      </div>
    </div>
  </div>
</div>
```

Figure 4.4.3 is the PHP code of Registration page of Won peace

## CHAPTER 5

# TESTING

Testing is the process of executing a program to find the errors. A good test has the high probability of finding a yet undiscovered error. A test is vital to the success of the system. System test makes a logical assumption that if all parts of the system are correct, then the goal will be successfully achieved.

### 5.1 Module Testing

Module testing is the testing of complete code objects as produced by the compiler when built from source. A library may be composed of a single compiled object or several compiled objects. There is only a slight difference between unit testing and module testing.

For Module Testing we used Dummy code in PHP where if there were any error it would give echo "Module error" in what part of the code and where the values are being stored.

### 5.2 Integration Testing

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. It occurs after unit testing and before validation testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing.

We tried Various Trial and error inputs and the Program worked only for the correct input and showed error to the wrong inputs

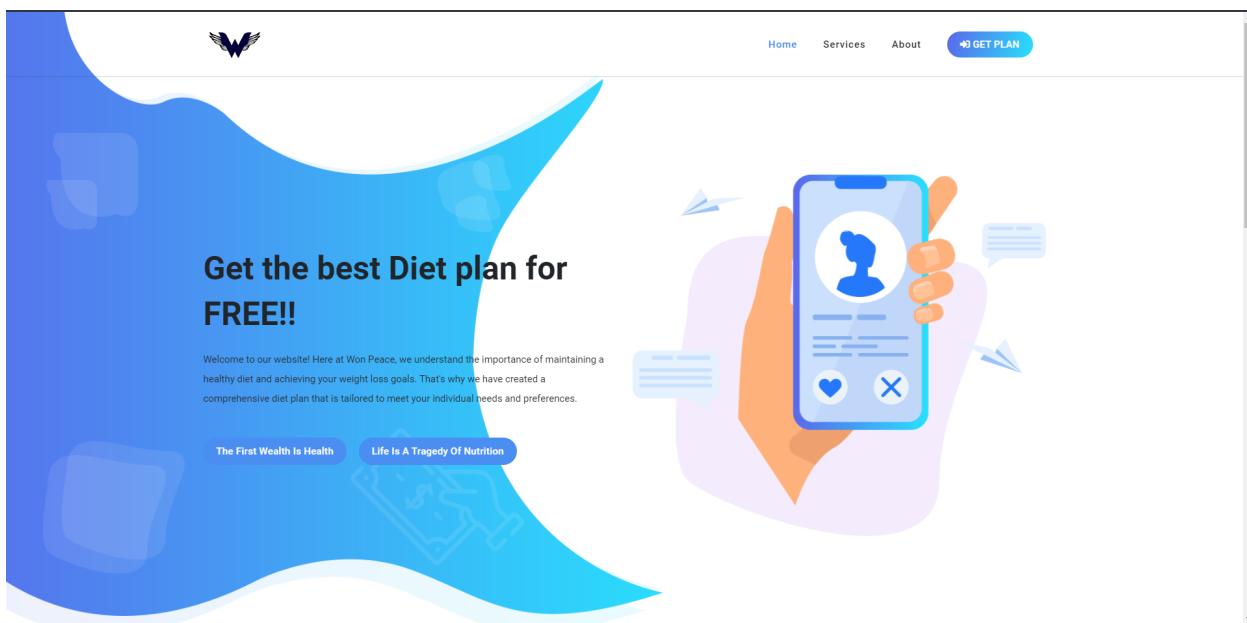
<u>Test Case Id</u>	<u>Description</u>	<u>Input Data</u>	<u>Expected Output</u>	<u>Actual Output</u>	<u>Status</u>
1	Registration Page	Enter Particulars	Redirect to the Dashboard	Dashboard appears	Pass
2.	Registration Page	No particular for SEX	Redirect to Dashboard	Should show that that part is required field	Fail
3	Registration Page	No particulars entered.	Should show that that part is required field	Shows the field is needed	Pass
3.	DashBoard Page	Data from Registration Page	Should Show proper Breakfast, lunch, Dinner Table	Shows Proper Breakfast, lunch, Dinner Data	Pass
4.	DashBoard Page	Download Link	Downloads in Excel form	Downloads in Excel format in	Pass
5.	DashBoard Page	Click Home Button	Should take to Home page and flushes the imputed tables	Takes to Home page and flushes the imputed tables	Pass

## CHAPTER 6

### SNAPSHOTS

#### 6.1 About Page

Our "About" page is an important part of our website, as it gives visitors an understanding of who we are, what we do and what to expect from our website. It consists of Home, Services, About us.



The image displays two screenshots of a website for 'WON PEACE'. The top screenshot shows the 'Services' page, which features a navigation bar with Home, Services (highlighted in blue), About, and a 'GET PLAN' button. The main content area is titled 'Amazing Diet Plan & Features For You' and includes three service cards: 'Custom Diet plan', 'Nutrient Hack', and 'Auto Calculator'. The bottom screenshot shows the 'About' page, which has a navigation bar with Home, Services, About (highlighted in blue), and a 'GET PLAN' button. The main content area is titled 'About What We Do & Who We Are' and includes sections for 'Won Peace', 'Communication Skills', 'Competitive Coding', and 'Leadership Skills'. The background of both pages features abstract geometric shapes and icons related to nutrition and data analysis.

**Services**

**Home Services About GET PLAN**

**Amazing Diet Plan & Features For You**

**Custom Diet plan**  
You get to choose dishes according to your allergies and medical conditions

**Nutrient Hack**  
We provide a good amount of Snacks high in nutrients!

**Auto Calculator**  
No need to put your weight or BMI, our website calculates the perfect weight you should be and how much calories you need in a day and also provided the necessary calories per meal!

**About**

**Home Services About GET PLAN**

**About What We Do & Who We Are**

**Won Peace**  
Our Current project which is this Website is for

**Communication Skills**  
We excel at Presenting and Communicating!

**Competitive Coding**  
We Individually have intermediate level Coding skill, you can refer to our Leetcode Rank / link from our resume

**Leadership Skills**  
Strong interpersonal skills and ability to build and maintain positive relationships with colleagues, clients, and customers

**Fig 6.1 About Page**

## 6.2 Registration page

The registration page on my website is designed to collect important information from users in order to create a personalized diet plan. The page includes input fields for users to enter their name, age, height, and any medical conditions they may have. These inputs are mandatory and must be filled in order to proceed to the next page. This registration page is a crucial step in the process of generating a personalized diet plan. By collecting accurate information, the website is able to provide users with a diet plan that is tailored to their specific needs, which can increase the chances of achieving their desired results. The page will not proceed to the next page until all the data is filled in order to avoid any inaccuracies or incompleteness.

## REGISTRATION FORM

Name

Vishal

Phone

9137118896

Sex

Male



Age in years

47

Height in inches

70

Lunch  
preferences

3 Roti



Veg/Non-Veg

Veg

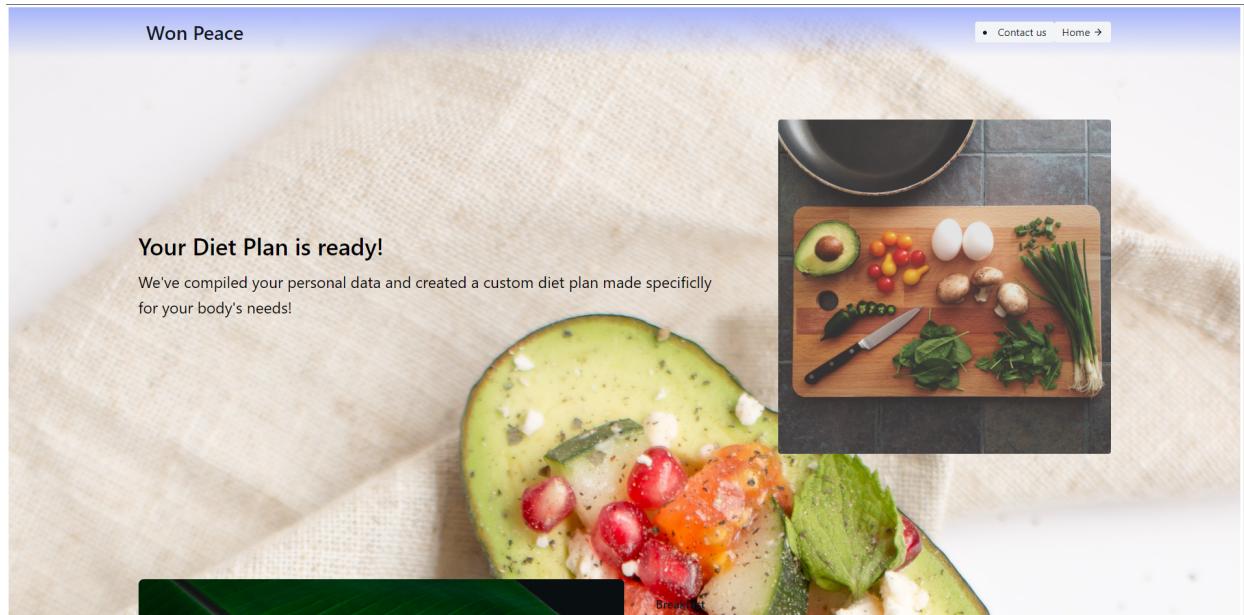


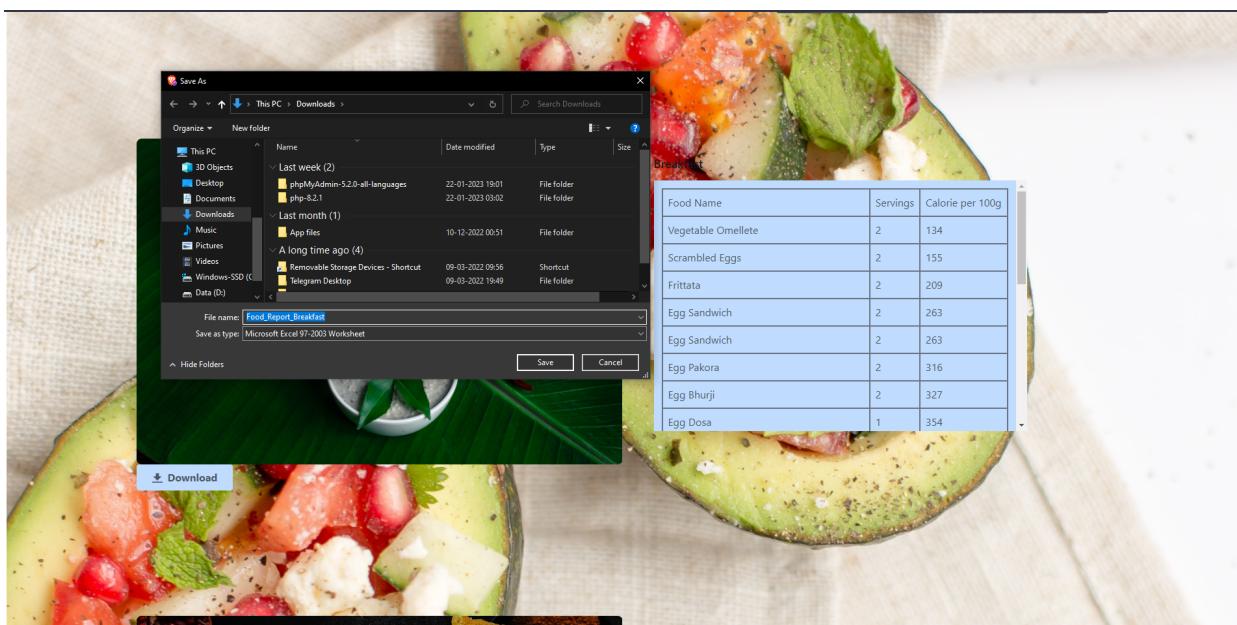
Allergies

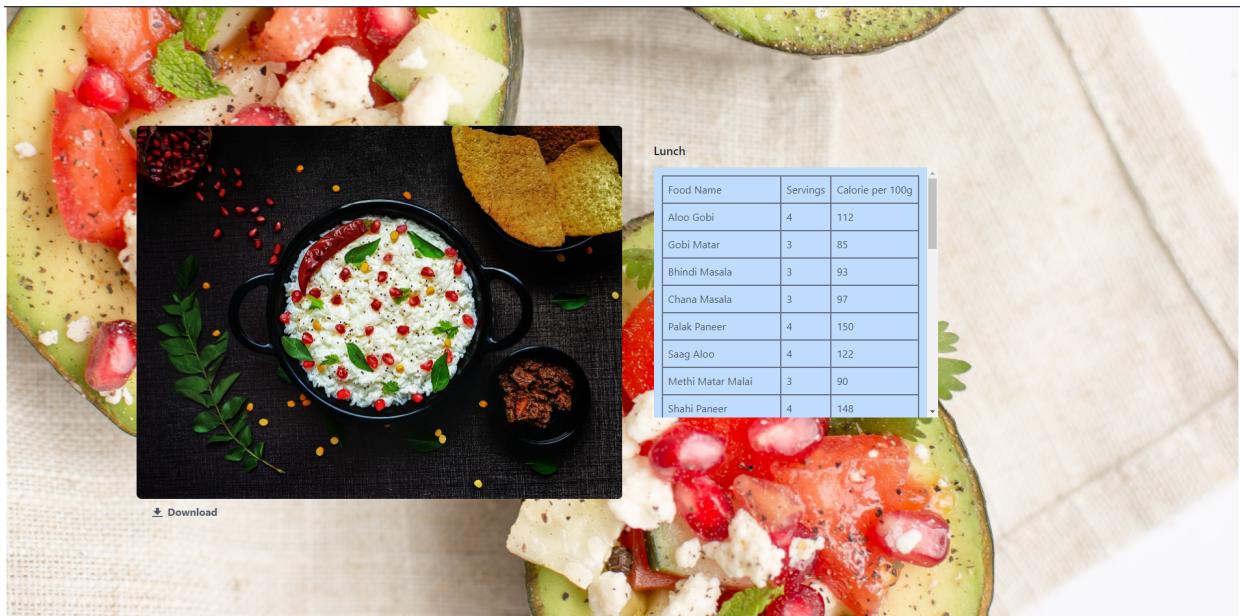
SUBMIT

### 6.3 Dashboard page

My website's dashboard is a feature-rich platform that provides users with a personalized diet plan. The dashboard is divided into three sections, breakfast, lunch, and dinner, each section displays a list of recommended food items that align with the user's dietary restrictions and nutritional needs as entered in the registration form. In addition to the diet plan, the dashboard also includes a list of healthy snacks with their recipes, this will help users to have a variety of options to choose from, and also to maintain a balanced diet. The dashboard also has a download option, which allows users to download their diet plan in Excel format, this will make it easy for them to print or share it with their dietitian or doctor. The dashboard is designed to be user-friendly and easy to navigate, making it simple for users to access and manage their personalized diet plan. It's a comprehensive solution that provides users with everything they need to achieve their dietary goals. Overall the dashboard is a powerful tool that empowers users to take control of their health and wellness through a personalized, tailored approach.







A screenshot of a dashboard showing a meal plan for dinner. The main image shows a plate of bread rolls. To the right is a table of nutritional information for two dishes.

Vegetable Soup	2	44
Khichdi	3	101

### Contact Us



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**Fig 6.3 Dashboard**

## CHAPTER 7

### CONCLUSION AND FUTURE ENHANCEMENTS

In conclusion, the website provides a comprehensive solution for generating personalized diet plans. The registration page collects important information from users, and the dashboard provides a personalized diet plan that is tailored to the user's specific needs. The inclusion of a list of healthy snacks and recipes, as well as the download option in Excel format, makes it easy for users to manage their diet plan and stick to it. As for future enhancements, one major potential enhancement would be to convert the website into a mobile application. This would provide users with an even more convenient way to access and manage their personalized diet plan.

A mobile app would allow users to access their diet plan on-the-go, and make it easier to track their progress and make adjustments as needed. Additionally, this would be a great idea for a 8th semester project, as it will give us the opportunity to learn and apply new technologies and methodologies.

## CHAPTER 8

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