

## **Nalaiya Thiran**

Professional readiness for Innovation,Employability,Entrepreneurship.

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### **Nutrition Assistant Application**

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# **1.INTRODUCTION**

## **1.1 Project Overview**

The concept described in this study is motivated by increasing issues about the health consequences of excess weight. People all over the world seem to be more involved in fat loss, eating healthier, and reducing fatness. A method for calculating calories and nutrients in food items can be very useful. In this report, we suggest a nutrient and calorie calculation method for food that can help individuals and fitness trainers in assessing and reporting eating patterns. To lose weight and improve while still eating a healthy diet for typical persons, daily food consumption should be defined. The current paper studies say that obese people are in serious health conditions such as high blood pressure, cardiac arrest, cancer, cholesterol levels, thyroid, respiratory problems, diabetes, etc. The primary reason of overweight is the inequality between the energy consumed by the individuals and the amount of daily food intake. People have started to place a premium on their health and well-being with the aim to maintain themselves safe from injury. Various analyzers have now been set up to help people with their health problems by developing various services that help people remain well. A few benefits dependent on calculating nutrition and calories from food and calculating the bmi.

## **1.2 System Analysis**

### **SOFTWARE REQUIREMENTS:**

Software Required: Python, Flask, Docker

Skills: IBM Cloud, HTML, Javascript, IBM Cloud Object Storage, Python-Flask, Kubernetes, Docker, IBM DB2, IBM Container Registry

## HARDWARE REQUIREMENTS

8GB RAM,  
Intel Core i3,  
OS-Windows/Linux/MAC ,  
Laptop or Desktop

### **1.3 Purpose:**

This application is a provides a personalized diet to its users. It acts as a diet consultant similar to a real Dietitian. This system acts in a similar way as that of a dietitian. A person in order to know his/her diet plan needs to give some information to the dietitian such as its weight, height, gender etc. Similar way this system also provides the diet plan according to the information entered by the user. The system asks all data from the user and processes it to provide the diet plan to the user. The project has a login page where the user is required to register his/her account and then they can use the app. Thus, the user does not need to visit any dietitian which also saves time and the user can get the required diet plan in just a click. The system will give more accurate results as it accepts the data entered by the user and processes it depending on some metrics already known to the application on the basis of which a diet plan is generated and ask the user if the user accepts the diet plan. If not accepted the system may also give an alternative diet plan. If a user wants to stay fit and eat healthy, he can surely follow the program provided to him. The Application also has a card for Health Facts on the homescreen, which will provide all the general knowledge and some amazing facts on our human body and body parts. This Application can be a vital part of a user if he wishes to maintain his health and body perfectly and follow the diet plan & the workout plan provided to the user.

## **2.LITERATURE SURVEY**

In the Literature Survey part, we observed the main goal of our project which was to be made and started searching for published papers on it which will help us in building the application. We went across many IEEE & Bayes Papers and found many papers which was some or the other way connected to our project based on health. We found many interesting papers as well as simple ones, we gathered the data from them.

### **2.1 Existing Problems**

In the existing health care system, the primary requirement and disadvantage is physical presence of patient and doctor for every consultation. In the existing diet consultant system, you have to hire a dietitian in order to get advice. Also, there is a high chance of misinterpretation of data as well as occurrence of errors. Moreover, it is time consuming. With the increase in volume of patients in the health care institutes, traditional method of management has gone out of phase. As a result of this, an advanced Health Care Management System has been the demand of time. Some Systems were built directly for sole purpose of a single disease like Obesity, down syndrome etc. and some were general purpose applications, some projects website based and some were mobile application based.

### **2.2 References**

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term care

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Stephen Kobourov 3 ,” Calorie Estimation From Pictures of Food: Crowdsourcing Study “

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(ICCSCE) , INSPEC Accession Number: 17577198 DOI: 10.1109/ICCSCE.2017.8284412

Publisher: IEEE Conference Location: Penang, Malaysia

[7]: V Balaji Kasyap; N. Jayapandian Food Calorie Estimation using Convolutional Neural

Network Date of Conference: 13-14 May 2021 Date Added to IEEE Xplore: 15 June 2021

published in 2021 3rd International Conference on Signal Processing and

Communication (ICPSC) INSPEC Accession Number: 20843253 DOI:  
10.1109/ICSPC51351.2021.9451812

Publisher: IEEE Conference Location: Coimbatore, India.

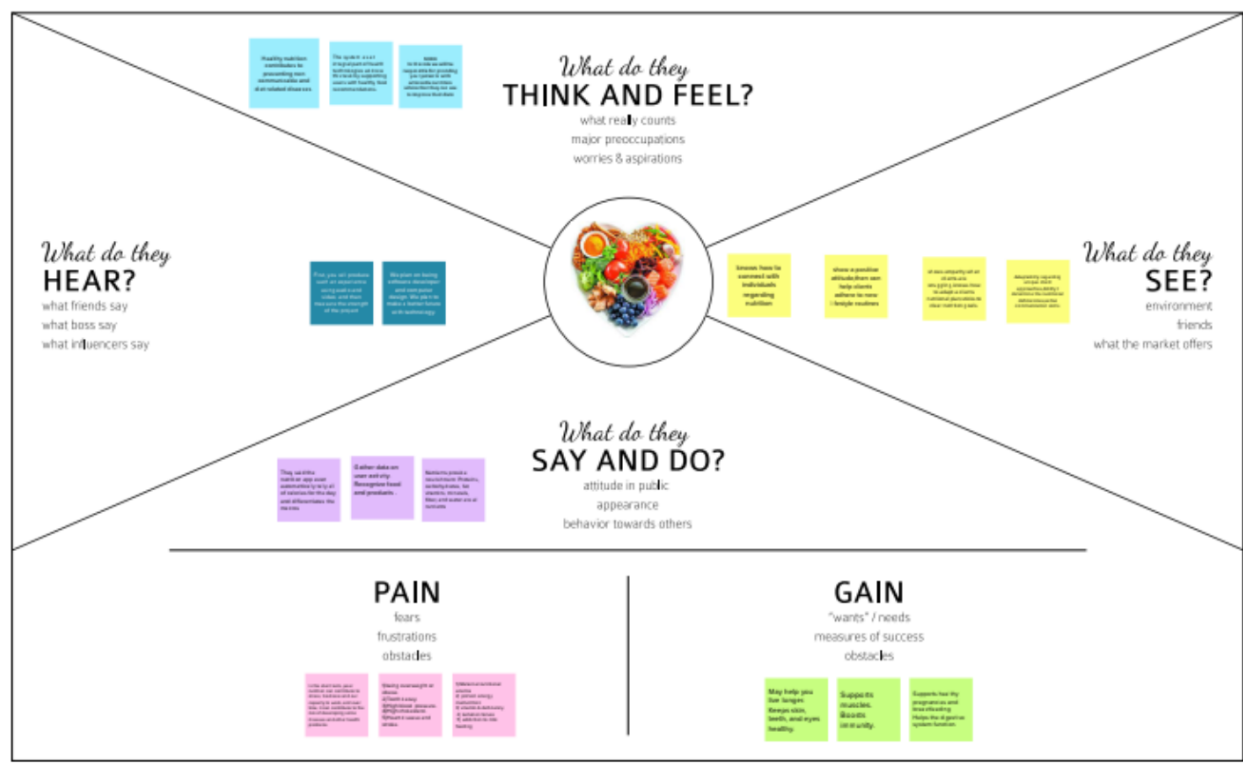
### **2.3 Problem Statement Definition :**

Our project was to be built on android so that people can get a good UI and also the website should be user-friendly. Some of the applications were paid-to-use and some were free, we wanted to build our project to be free to all. We started gathering information on the existing system and how it works and also a real dietitian works and calculates a diet based on a person's details like height, age, weight, gender etc. Even the internet helped us a lot for finding some basic formulas for calculating the diet and total calories. A person's diet totally depends upon what kind of activity he does in a day. If he/she has a hardworking job then they may lose more kcal as compared to other person who doesn't do much of hard work, so we have to calculate the Kcal based on the activity level of the person. The total calories to be consumed should be balanced proportion of macro nutrients like Proteins, Carbohydrates and Fats, with the ratio of 2:2:1. In the existing health care system, the primary requirement and disadvantage is physical presence of patient and doctor for every consultation. Also, there is a high chance of misinterpretation of data as well as occurrence of errors. Moreover, it is cumbersome and time consuming. With the increase in volume of patients in the health care institutes, traditional method of management has gone out of phase. As a result of this, an advanced Health Care Management System has been the demand of time.

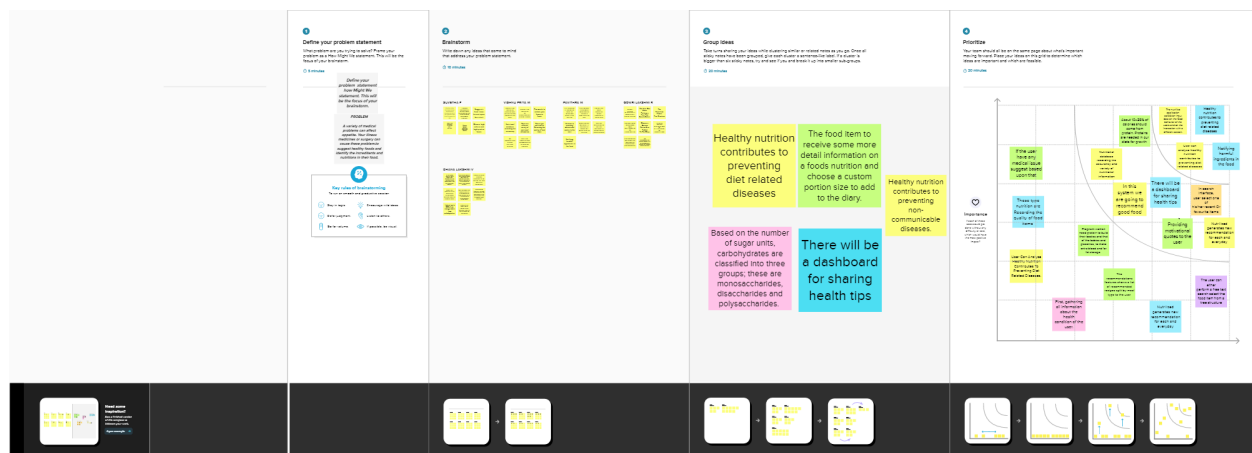
### 3.Ideation and Proposed Solution

#### 3.1. Empathy Map Canvas

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to help teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.



## 3.2 Ideation & Brainstorming:



## 3.3.Proposed Solution:

This application provides the user with a complex algorithm which can provide the user with a diet plan based on his/her characteristics like height, weight, BMI, gender etc. Everyone today dreams of a healthy lifestyle. In today's busy life, a healthy body is a dream for everyone to have a proper balanced diet. A balanced diet is important because your organs and tissues need proper nutrition to work effectively. Without good nutrition, your body is more prone to disease, infection, fatigue, and poor performance. Children with a poor diet run the risk of growth and developmental problems and poor academic performance, and bad eating habits can persist for the rest of their lives. At the core of a balanced diet are foods that are low in unnecessary fats and sugars and high in vitamins, minerals, and other nutrients. The following food groups are essential parts of a balanced diet. Calories play a vital role in our growth and energy. A good diet can help you manipulate calorie intake based on your requirements. The proposed application will provide the user with a user-friendly User-Interface where they can create an account, manage their account and get the diet by the click of just one button. If the

user is allergic to some kind of food, it also has the feature to contact an actual dietitian to consult. And there's also a page where the user can just read some interesting facts on health and human body. This application will save a lot of user's time by not actually visiting a dietitian and getting everything done on their phone.

### **3.4 Advantage of Proposed System :**











































































- This application can be further improved by feedback suggestions from the users.
- This application can be improved with the help of an expert nutritionist who can help us creating different types of programs for different classification of users.
- The project is easily extensible and can be improved by further incremental releases of the same.
- We plan to focus on improving the overall performance of the system. Also, interaction between guider and dietitian through video calling and secure prescription will be focused upon.

Some more ways to achieve dietitian will be focused.

### **3.5 Problem Solution Fit :**

It is simple to get sucked into the trap of consuming calorie-dense, unhealthy foods. Users must limit their daily calorie consumption in order to lead a healthy lifestyle since when foods with low nutritional value are replaced by those

By taking a picture of the food and uploading it to the app, users may learn the nutritional value of the food they are consuming. For precise food recognition and APIs that provide the discovered item's nutritional value, Clarifai uses its AI-Driven food detection model.

Project Title: NUTRITION ASSISTANT APPLICATION, Project Design Phase-I- Solution Fit Template Team ID: PNT2022TMD50324	De fin e CS fit to CC	Fe as i b l e i n a CC	Ex plo re AS diff ere ntia te	Fe as i b l e i n a CC	Id en ti fy st r on a
<p><b>1. CUSTOMER SEGMENTS</b> </p> <p>Who is your customer?  population into distinct groups—individuals, specific needs, characteristics, or behaviors  care delivery and policies to be taken for those groups.</p>					
<p><b>2. JOBS-TO-BE-DONE / PROBLEMS</b> </p> <p>Nutrition assistants help dietitians with providing proper nutrition at healthcare facilities.</p> <p>They determine patients' nutritional  assess risk factors, and plan meals and menus.</p>					
<p><b>3. TRIGGERS</b> </p> <p>What triggers customers to act?</p> <p> nutrition benefits to supplement the food budget of needy families so they can purchase healthy food and move towards self-sufficiency.</p>					
<p><b>4. EMOTIONS: BEFORE / AFTER</b> </p> <p>How do customers feel when they face a problem or a job and afterwards?</p> <p>Before: poor nutrition can contribute to stress, tiredness and our capacity to work, and over time, it can contribute to the risk of developing some illnesses and other health .</p> <p>After: Regulates our blood flow for decision-making. Improves our brain's communication with immune system. Helps improve feedback to the brain. Reduces stress and anxiety levels.</p>					
<p><b>5. YOUR SOLUTION</b> </p> <p>If you are working on an existing business, write down your current solution  the current as, and think how much .</p> <p>The key messages for a healthy lifestyle include Eat a variety of nutritious foods. Eat more vegetables and fruits. Eat less processed foods that are often fatty, salty, and sugary.</p>					
<p><b>6. CHANNELS OF BEHAVIOUR</b> </p> <p>6.1. ONLINE</p> <p>What kind of solution does customers take needed? The way to look at goal setting, as specific, measurable, attainable, realistic and time-bound. To offer words, it's just a matter of, in this case, SMART (I approach to setting goals).</p> <p>6.2. OFFLINE</p> <p>What kind of solution does customers take ? Factors like patients and take diet histories. Review patient medical charts for dietary and nutritional information. Assist each other through a diet among appropriate each dietitian of patients. Give an advice that dietitian receives by patients with normal and careful diets, as directed by a nutrition therapist.</p>					
<p><b>7. AVAILABLE SOLUTIONS</b> </p> <p>Which solutions are available to the customers or how they face the problem?</p> <p>Interviews patients and takes diet histories.                                              </p>					

## 4. Requirement Analysis

### 4.1. Funtional Requirements

FR No	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR - 1	User Registration	Registration through form Registration through gmail Registration through LinkedIN
FR - 2	User Confirmation	Confirmation via Email Confirmation via OTP
FR - 3	User Login	Enter user pin
FR - 4	Select Food Items	Food selection
FR - 5	Calcuate Calorie	Total calorie
FR - 6	Calculate Bmi	BMI

### 4.2. Non Functional Requirements

NFR No	Non-Functional Requirement	Description
NFR-1		However, there is scant research examining the user experience of different measurement approaches for mobile dietary reporting apps when dealing with a wide variety of food shapes and container sizes
NFR-2	Security	Nutrition security means having consistent access, availability, and affordability of foods

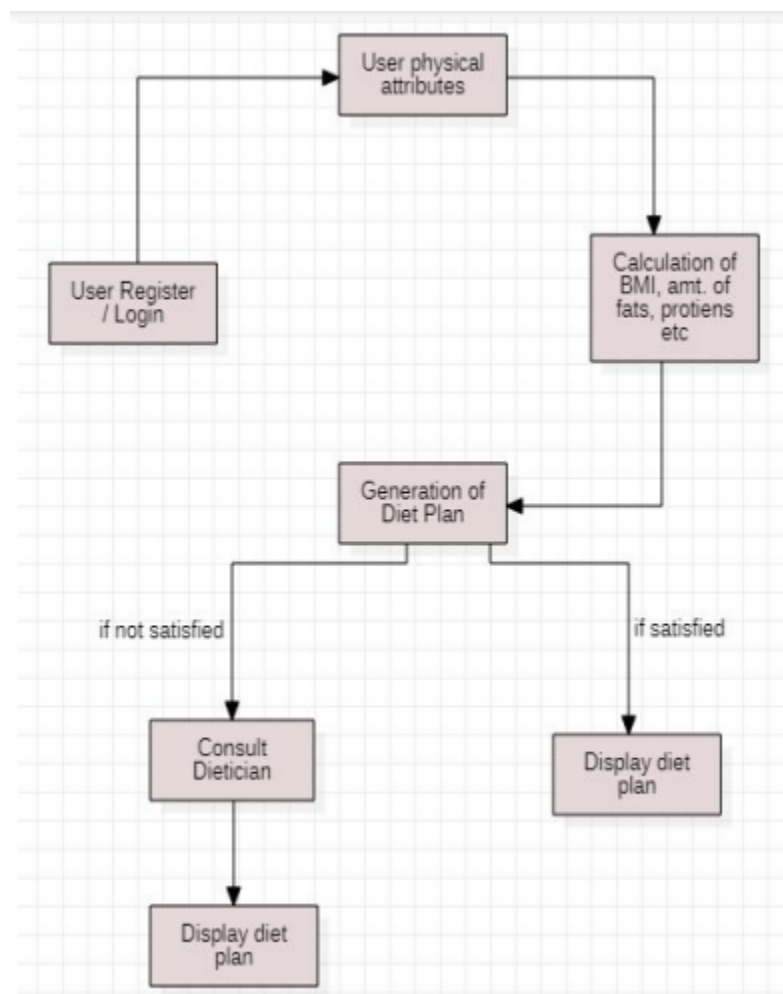
		and beverages that promote well-being and prevent (and if needed, treat) disease, particularly among racial/ethnic minority populations, lower incomes populations, and rural and remote populations.
NFR-3	Reliability	Nutrition Data obtains food composition data from a variety of published and unpublished sources, with the largest provider of data being the USDA. While Nutrition Data cannot guarantee 100% accuracy, we do our best to check or verify all data entries.
NFR-4	Performance	The app will provide step -by -step guidelines for how and when every athlete should fuel their body for optimizing their performance.
NFR-5	Availability	Availability at all times of adequate world food supplies of basic foodstuffs to sustain a steady expansion of food consumption and to offset fluctuations in production and prices.
NFR-6	scalability	Scaling Up Nutrition is a global push for action and investment to improve maternal and child nutrition. Evidence shows that proper nutrition during the 1000 days between a woman's pregnancy and her child's second birthday gives children a healthy start at life



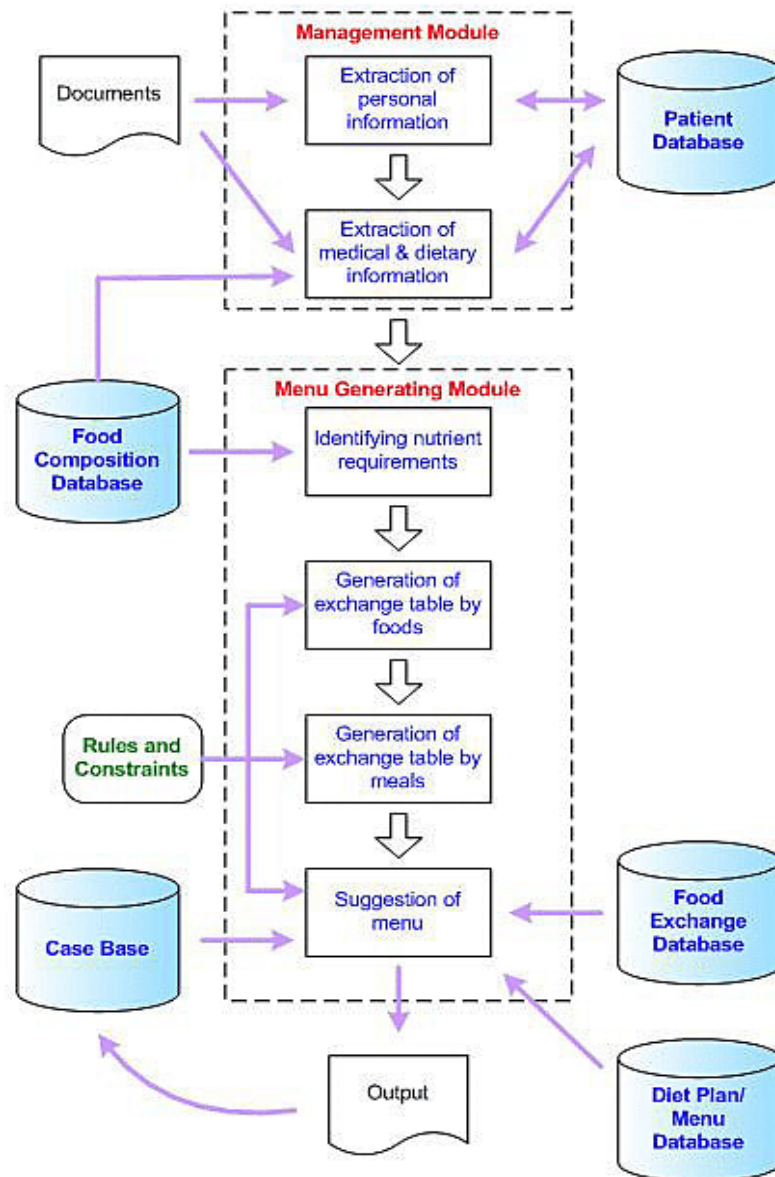
## 5.PROJECT DESIGN

### 5.1. Data Flow Diagram:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



## 5.2. Solution & Technical Architecture:



**Technical Architecture**

### 5.3. User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the	I can register & access the	Low	Sprint-2

			application through Facebook	dashboard with Facebook Login		
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)						
Customer Care Executive						
Administra tor						

## 6. PROJECT PLANNING AND SCHEDULING

### 6.1. Sprint Planning and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-1	The user will login into the website and go through the products available on the website.	20	High	Suvetha P Dhana LakshmiV Gowri Lakshmi R Pavithra M Vishnu Priya M
Sprint-2	Registration	USN-2	The user fill the Registration form.	20	High	Suvetha P Dhana Lakshmi V Gowri Lakshmi R Pavithra M Vishnu Priya

						M
Sprint-3	Calories	USN-3	User select the food and the Calories will calculate.	20	High	Suvetha P Dhana Lakshmi V  Gowri Lakshmi R  Pavithra M  Vishnu Priya M
Sprint-4	BMI	USN-4	User give their height and weight after BMI will calculate.	20	High	Suvetha P  Dhana Lakshmi V  Gowri Lakshmi R  Pavithra M  Vishnu Priya M

## Project Estimation

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 NOV 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 NOV 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 NOV 2022

## 6.2. Sprint Delivery Schedule

Title	Description	Date
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications	22 October 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	12 September 2022
Ideation	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance	23 October 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc	20 October 2022
	Prepare problem solution	



Problem Solution Fit	fit document	21 October 2022
Solution Architecture	Prepare solution architecture document	25 October 2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application	28 October 2022
Functional Requirement	Prepare the functional requirement document	28 October 2022
Data Flow Diagrams	Draw the data flow diagrams and submit for review	28 October 2022
Technology Architecture	Prepare the technology architecture diagram	28 October 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project	29 October 2022

### **6.3. Report From Jira**

## **47.CODING AND SOLUTIONING**

### **7.1. Feature**

## **User Login Page**

The login page allows a user to gain access to an application by entering their username and password or by authenticating using a social media login.

- A user navigates to an application and is presented with a login page as a way to gain access to the application. There are two possible results:
  - Authentication is successful and the user is directed to the application landing page.
  - Authentication fails and the user remains on the login page. If authentication fails, the screen should show an informational or error message about the failure.
- A user is automatically logged out due to inactivity. In this event, they will be returned to the login page, which will display an informational Tmessage explaining what happened. Once the user logs in again, they should be taken back to the page they were previously on before being timed out. Thirty minutes is the suggested duration before a session timeout, but this is subject to change based on your product's security requirements.

## **User Registration Page**

All customers that have created online account need to provide customer registration information, which is used to capture customer profile as well as generate and issue commercial registration certificate. After logging-in to the system for the first time, customers are provided with a wizard-like interface that allows them to provide information required for capturing customer profile and generating commercial registration certificate.

## **Calorie Calculation :**

The cornerstone of any good fitness plan is getting your diet right, and to do that, the first thing you need to do is to determine what your daily calorie needs are.

There are a lot of different online calculators you can use to find out how many calories you should eat per day. Some of them are ok, but most calorie calculators oversimplify by only using your age, weight, and gender (and perhaps BMI).

If you are a fitness nerd like me, you will probably want to know the correct scientific way of calculating what your daily calorie needs are.

It's a very easy 5-step process. I have used my own data in the example below to show you how I work out what my daily calorie needs are.

### **How to calculate your daily calorie needs :**

You can calculate your daily “maintenance calories” by following these easy steps:

Step 1: Find your current body weight in kilograms (if you live in the US, just divide your current weight in pounds by 2.2 to get your weight in kilograms).

Step 2: Multiply your weight in kilograms by 0.9 if you are a woman or 1.0 if you are a man.

Step 3: Multiply by 24

Step 4: Multiply by your “Lean Factor” from the table below (read on to learn how to find your body fat percentage if you don't know it)

## Step 5: Multiply by Activity Modifier

Important: No matter what this formula says, never eat less than 1,200 calories per day on average without consulting your medical team first. A very low daily calorie intake can lead to a slower metabolism, hormonal problems, and a number of other medical issues.

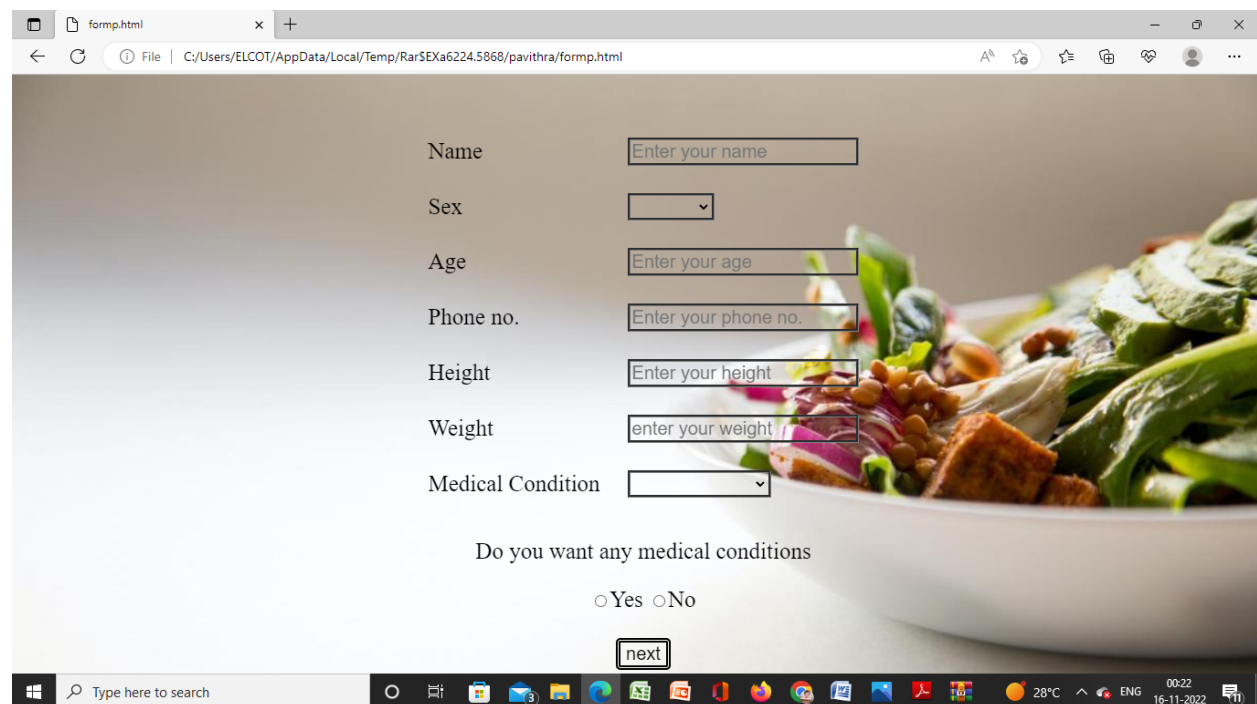
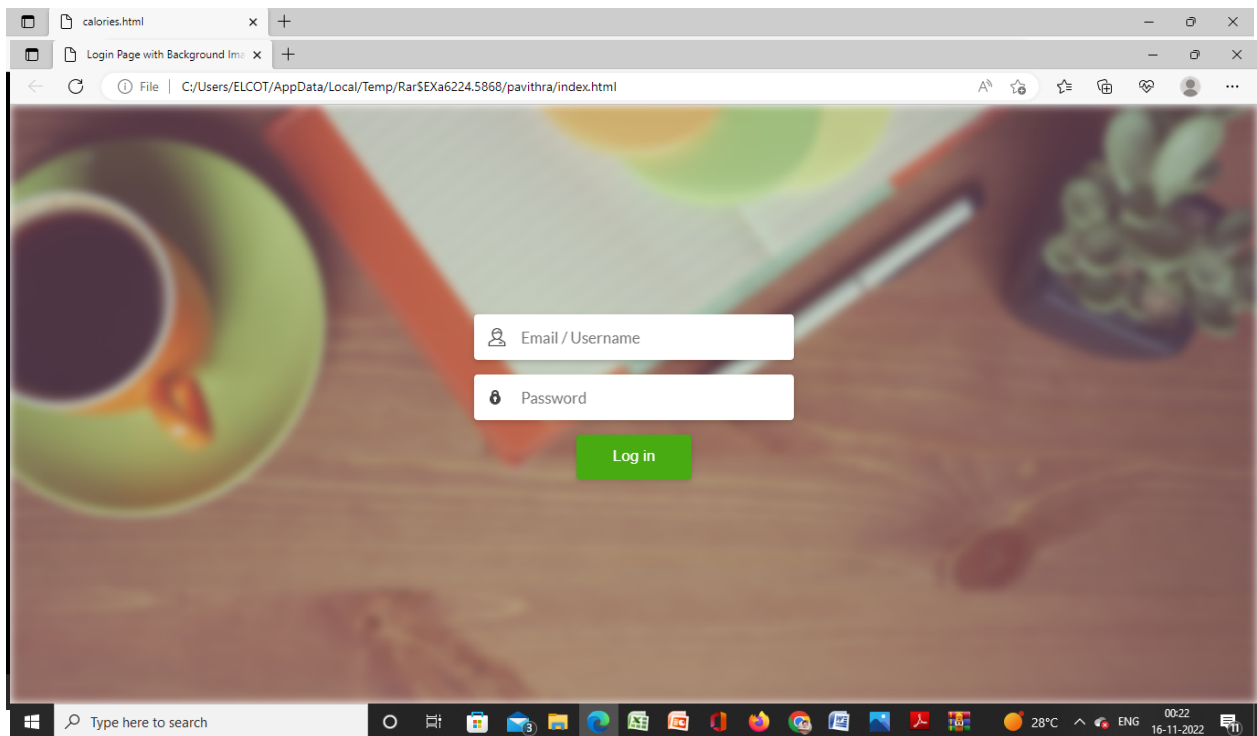
For example: My daily calorie need would be:  $1252 \text{ (my BMR)} \times 1.55 \text{ (Light Activity)} = 1940 \text{ calories/day}$

## **BMI Calculation :**

A person's Body-Mass Index, or BMI, helps them check whether they're a healthy weight for their height. If a person weighs less or more than the recommended weight for their height, it could lead to health issues in the future. While BMI is not the only factor individuals should consider while working on their health and fitness, it is a good starting point. To understand what your BMI is, you need to know your height and weight. You can then use an online BMI calculator to check your BMI, which will help you understand if you're underweight, a healthy weight, overweight or obese. Or, you can measure your height in metres and weight in kilograms. Divide your weight by your height squared to calculate your BMI.

## 8.TESTING

### 8.1 Testcases



calories.html

File | C:/Users/ELCOT/AppData/Local/Temp/Rar\$EXa6224.5868/pavithra/calories.html

## food Calories

Servings: 1

Breakfast (1 oz):	Lunch (1 oz):	Dinner (1 oz):
Idly	Mutton Biryani	puri
19 calories 1 g of protein 19 g of fat 0 g of carbs	13 calories 13 g of protein 13 g of fat 60 g of carbs	2.7 calories 3.39 g of protein 2.7 g of fat 16.82 g of carbs

Comparison:

6 more calories  
12 g less of protein  
6 g more of fat  
60 g less of carbs

Type here to search

28°C 00:24 16-11-2022

Login Page with Background Image | BMI Calculator

File | C:/Users/ELCOT/Downloads/pavithra/pavithra/bmi.html

## BMI Calculator

Age: 22

Gender: ☒ Male ☐ Female

Weight: 169

Height: 48

Activity: Very active (hard exercise/sports 6-7 days a week)

Calculate

Total BMI

4281.0774

Type here to search

28°C 00:52 16-11-2022

## **8.2. Testing**

Testing is a process, which reveals errors in the program. It is the major quality measure employed during software development. During software development, during testing, the program is executed with a set of test cases and the output of the program for the test cases is evaluated to determine if the program is performing as it is expected to perform.

In order to make sure that the system does not have errors, the different levels of testing strategies that are applied at differing phases of software development are:

### **8.2.1 Unit Acceptance Testing**

User acceptance testing (UAT), also called application testing or end-user testing, is a phase of software development in which the software is tested in the real world by its intended audience. UAT is often the last phase of the software testing process and is performed before the tested software is released to its intended market. The goal of UAT is to ensure software can handle real-world tasks and perform up to development specifications.

In UAT, users are given the opportunity to interact with the software before its official release to see if any features have been overlooked or if it contains any bugs. UAT can be done in-house with volunteers, by paid test subjects using the software or by making the test version available for download as a free trial. The results from the early testers are forwarded to the developers, who



make final changes before releasing the software commercially.

UAT is effective for ensuring quality in terms of time and software cost, while also increasing transparency with users. UAT also enables developers to work with real cases and data, and if successful, the process can validate business requirements.

## 9.RESULTS

### 9.1. Performance Metrics

The screenshot shows an Excel spreadsheet titled "performance template for Internet of Things & Cloud Application Development" in Protected View. The spreadsheet is for a "Nutrition assistant application". It contains several sections:

- NFT - Risk Assessment**: A table with columns for Feature, Functional Changes, Hardware Changes, Software Changes, Impact of Downtime, Load/Volumen Changes, Risk Score, and Justification. The Risk Score is listed as ORANGE.
- NFT - Detailed Test Plan**: A table with columns for S.No, Project Overview, NFT Test approach, Impumptions/Dependencies/R, and Approvals/SignOff.
- End Of Test Report**: A table with columns for approach, NFR - Met, Test Outcome, GO/NO-GO decision, Recommendations, Identified Defects (Detected/Closed/Open), and Approvals/SignOff.

The spreadsheet is displayed in a window with a green title bar. The status bar at the bottom shows "Ready" and "Type here to search". The taskbar at the bottom shows various application icons and the system clock indicating 07:13 on 17-11-2022.

## **10.ADVANTAGES AND DISADVANTAGES**

### **10.1 Advantages**

A healthy diet throughout life promotes healthy pregnancy outcomes, supports normal growth, development and ageing, helps to maintain a healthy body weight, and reduces the risk of chronic disease leading to overall health and well-being.

- Improved efficiency and speed – The healthcare apps can enhance healthcare delivery with more efficiency, as they can handle multiple queries and requirements at a time.
- Reduction in healthcare costs – The cost associated with the healthcare consultation reduced significantly with the usage of apps as the maintenance cost is less.
- Save time – With the healthcare apps, the patients can easily connect with the healthcare provider for consultation. It saves traveling time between home and the healthcare center and also requires fewer visits as compared to the traditional approach.

### **10.2 Disadvantages**

- Data Privacy – The health apps continuously collect and analyze the health data of the person. The threat to the exposure of personal information by the hacker and sharing with the third parties is a major concern. Over the past few years, in several stances, news and updates regarding the leakage of health data have been reported by the reported apps manufacturers.
- Accuracy of Data – The information and advice provided by healthcare apps is also an important concern with healthcare apps. Different apps use different methods and tools to analyze health data. In some cases, the data measured with the apps are found to be varying when compared with the MedTech devices

## **11.CONCLUSION**

Based on the research and design of this, it can be concluded:

This application is designed to help users to determine the condition of the body, as well as the number of calories needed to tell users how much calories from food eaten.

The application is designed using eclipse program, and runs on smartphones that use the Android operating system.

## **12.FUTURE SCOPE**

Applications built certainly still have many shortcomings, therefore there are some things that might be developed for these applications to be better and more useful, namely:

- Applications can be developed so that it has an online update system. System update function to add food database and data on the number of calories contained.
- Applications are still running on the Android operating system only. For future development may be made on other operating systems (e.g. IOS).
- Added a menu that gives information about the types of diet that exist, and how to run it.

## 13.APPENDIX

### Source Code

#### INDEX.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Login Page with Background Image Example</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<!-- partial:index.partial.html -->
<div id="bg"></div>
<form action="formp.html" method="post">
<div class="form-field">
<input type="email" placeholder="Email / Username" required/>
</div>
<div class="form-field">
<input type="password" placeholder="Password" required/> </div>
<div class="form-field">
button class="btn" type="submit">Log in</button>
</div>
</form>
<!-- partial -->
</body>
</html>
```

#### FORM.html

```
<html>
<head>
<style>
```

```
body {
background-image:
url('https://www.expatrio.com/sites/default/files/styles/image_slider/public/2022-
05/hermes-rivera-Ww8eQWjMJWk-unsplash_3.jpg?itok=aqyA4cvZ');
position: fixed;
left: 0;
top: 0;
width: 100%;
height: 100%;
background-size: cover;
}
form {
margin-top: 3%;
font-size: 25px;
}
table {
font-size: 25px;
}
input,
select,
option {
font-size: 20px;
background-color: transparent;
color: black;
border: 3px groove gray;
cursor: pointer;
}
button {
border: 5px double black;
border-radius: 5px;
padding-left: 6px;
columns: rgb(159, 1, 1);
```

```

background: transparent;
font-size: 20px;
cursor: pointer;
}
button:hover {
border: 5px groove red;
border-radius: 5px;
padding-left: 6px;
background: gray;
font-size: 20px;
cursor: pointer;
}
</style>
</head>
<body>
<div id="bg"></div>
<form action="calories.html" method="post">
<center>
<table cellpadding="10" cellspacing="10">
<tr>
<td>Name</td>
<td><input type="text" name="name" placeholder="Enter your name"
required></td>
</tr>
<tr>
<td>Sex</td>
<td><select required>
<option value=""></option>
<option value="male">Male</option>
<option value="female">Female</option>
</select></td>

```

```

</tr>
<tr>
<td>Age</td>
<td><input type="tel" name="age" pattern="[0-9]{2}" placeholder="Enter your
age" required> </td>
</tr>
<tr>
<td>Phone no.</td>
<td><input type="tel" name="number" pattern="[0-9]{10}" placeholder="Enter
your phone no." required></td>
</tr>
<tr>
<td>Height</td>
<td><input type="number" name="height" placeholder="Enter your height"
required></td>
</tr>
<tr>
<td>Weight</td>
<td><input type="number" name="weight" placeholder="enter your weight"
required></td>
</tr>
<tr>
<td>Medical Condition</td>
<td>
<select required>
<option value=""></option>
<option value="diabetes">Diabetes</option>
<option value="pre-diabetes">Pre-Diabetes</option>
<option value="hypertension">Hypertension</option>
<option value="pcos">PCOS</option>
<option value="thyroid">Thyroid</option>
<option value="physical injury">Physical Injury</option>

```



```

<option value="sleep issue">Sleep issue</option>
<option value="depression">Depression</option>
<option value="anger issue">Anger Issue</option>
<option value="loneliness">Loneliness</option>
</select>
</td>
</tr>
</table>
<p>Do you want any medical conditions </p>
<input type="radio" name="nutri" id="yes" value="yes">Yes
<input type="radio" name="nutri" id="no" value="No">No<br><br>
<button>next</button>
</center>
</form>
</body>
</html>

```

## **CALORIES.html**

```

<html>
<head>
<link rel="stylesheet" href="calories.css">
</head>
<body>
<center>
<h1>food Calories</h1><br>
<label>
<h3>Servings:</h3>
<input type="number" id="numberOfStocks" value="1" min="0" />
</label><br><br>
<div>
<div class="side">
<h2>Breakfast<span class="servingUnit"></span>:</h2>

```

```

<select class="selectStock">
<option value="-1">Pick a food!</option>
</select>
<br>
<br>
<div class="result"></div>
</div>
<div class="side">
<h2>Lunch<span class="servingUnit"></span>:</h2>
<select class="selectStock">
<option value="-1">Pick a food!</option>
</select>
<br>
<br>
<div class="result"></div>
</div>
<div class="side">
<h2>Dinner<span class="servingUnit"></span>:</h2>
<select class="selectStock">
<option value="-1">Pick a food!</option>
</select>
<br>
<br>
<div class="result"></div>
</div>
</div>
<div class="comparison">
<h2>Comparison:</h2>
<br>
<div class="result"></div>
</div>
</center>

```

```

<form action="bmi.html" method="post">
<button>Next</button>
</form>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
<script type="text/javascript" src="js/calory.js"></script>
</body>
</html>

```

### **BMI.html**

```

<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">
<!-- Bootstrap CSS -->
<link                                     rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9
UJ0Z" crossorigin="anonymous">
<title>Calorie Calculator</title>
<style>
#loading,
#results {
display: none;
}
#loading {
width: 100%;
}

```

```

</style>
</head>
<body>
<div class="container">
<div class="row">
<div class="col-lg-6 mx-auto">
<div class="card card-body text-center mt-5">
<h1 class="heading display-5 pb-3">BMI Calculator</h1>
<form id="calorie-form">
<div class="form-group row">
<label for="age" class="col-sm-2 col-form-label">Age</label>
<div class="col-sm-10">
<input type="number" class="form-control" id="age" placeholder="Ages 15-80"
required>
</div>
</div>
</div>
<fieldset class="form-group">
<div class="row">
<legend class="col-form-label col-sm-2 pt-0">Gender</legend>
<div class="col-sm-10" id="form-radio">
<div class="custom-control custom-radio custom-control-inline">
<input type="radio" id="male" name="customRadioInline1" class="custom-
control-input" checked="checked">
<label class="custom-control-label" for="male">Male</label>
</div>
<div class="custom-control custom-radio custom-control-inline">
<input type="radio" id="female" name="customRadioInline1" class="custom-
control-input">
<label class="custom-control-label" for="female">Female</label>
</div>
</div>
</div>
</div>

```

```

</fieldset>
<div class="form-group row">
<label for="weight" class="col-sm-2 col-form-label">Weight</label>
<div class="col-sm-10">
<input type="number" class="form-control" id="weight" placeholder="In
kilograms" required>
</div>
</div>
<div class="form-group row">
<label for="height" class="col-sm-2 col-form-label">Height</label>
<div class="col-sm-10">
<input type="number" class="form-control" id="height" placeholder="In
centimeters" required>
</div>
</div>
<div class="form-group row">
<legend class="col-form-label col-sm-2 pt-0">Activity</legend>
<select class="custom-select col-sm-10" id="list" required>
<option selected value="1">Sedentary (little or no exercise)</option>
<option value="2">Lightly active (light exercise/sports 1-3 days/week)</option>
<option value="3">Moderately active (moderate exercise/sports 3-5
days/week)</option>
<option value="4">Very active (hard exercise/sports 6-7 days a week)</option>
<option value="5">Extra active (very hard exercise/sports & physical job or 2x
training)</option>
</select>
</div>
<div class="form-group">
<input type="submit" value="Calculate" class="btn btn-primary btn-block">
</div>
</form>
<div id="loading">

```

```


</div>
<div id="results" class="pt-4">
<h5>Total BMI</h5>
<div class="form-group">
<div class="input-group">
<input type="number" class="form-control" id="Total-BMI" disabled>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXa
Rkfj" crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKAiIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk
7lN" crossorigin="anonymous"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+r
V" crossorigin="anonymous"></script>
<script src="js/script.js"></script>
</body>
</html>

```

### **Github Link**

[IBM-EPBL/IBM-Project-48171-1660805120](#)

### **Demo Link**

<https://youtube.be/fnFSsLpLy>