

Team Name : _____Active_____

	Name	Branch and Semester	Contact Number	Email- ID
Team Leader	Pratul Bhargava	CS-BS 2nd Semester	8052348252	pratul.rocks7777@gmail.com
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Transaction ID (anju.marina.lobo@oksbi)	P2002232322186239864703			

Note:

- One can participate either as a part of a team or an individual basis. Switching teams is not allowed.
- The uploaded ideas will be screened to go to the second round.
- Judging : competition entries shall be judged, or winners selected based on the following criteria
 - Is the problem worth solving
 - How innovative or novel is the idea
 - Scientific accuracy
 - Social impact
 - Scalability
- Decisions of IIC JSSSTU in respect of all matters to do with the competition will be final and no correspondence will be entertained.
- In second round, the selected teams will have to present their idea in front of the jury panel.
- Payment of INR 50 should be made to the UPI ID anju.marina.lobo@oksbi and submit the transaction ID above.
- Idea should be submitted in **.pdf** format.

Abstract: (not more than 150 words)

Our app is an automatic calorie counter. It is mainly focused on packaged food. The user scan the barcode using our app and enters the amount of it he/she is taking. Then the app will automatically calculate the calorie intake by comparing the barcode with the one's in our own database. Our app can be further expanded to include proteins and other nutrients, so our app could compare the user's nutrient intake with the optimum values for his/her body type and could inform the user regarding which nutrients are deficient or in excess in their diet and can suggest minor modifications.

Our ultimate goal is to incorporate machine learning in our app so that it can understand the type of even non-packaged food like fruits, rice, etc. and calculate calories consumed by automatically determining its quantity by just taking a snap of the food.

Introduction (not more than 200 words)

Nowadays, people are becoming more and more concerned about their diet and they wish to know what exactly they are taking into their bodies. A thousand diets are developed every year, how good they are is a mystery. People follow what they hear in TV, social media and what their idols are following but one diet will not suit all body types.

Our app will be able to give personalised diet plans to people. It will be able to take data from fitness devices used by people, analyse it and suggest suitable diets on the basis of the user's lifestyle and goals.

The confusion regarding what type of diet to follow will be history. The app will also serve as a calorie and nutrient counter as stated in the abstract.

Therefore, by using our app people will be able to make knowledgeable and smart decisions regarding their diets.

Motivation (not more than 100 words)

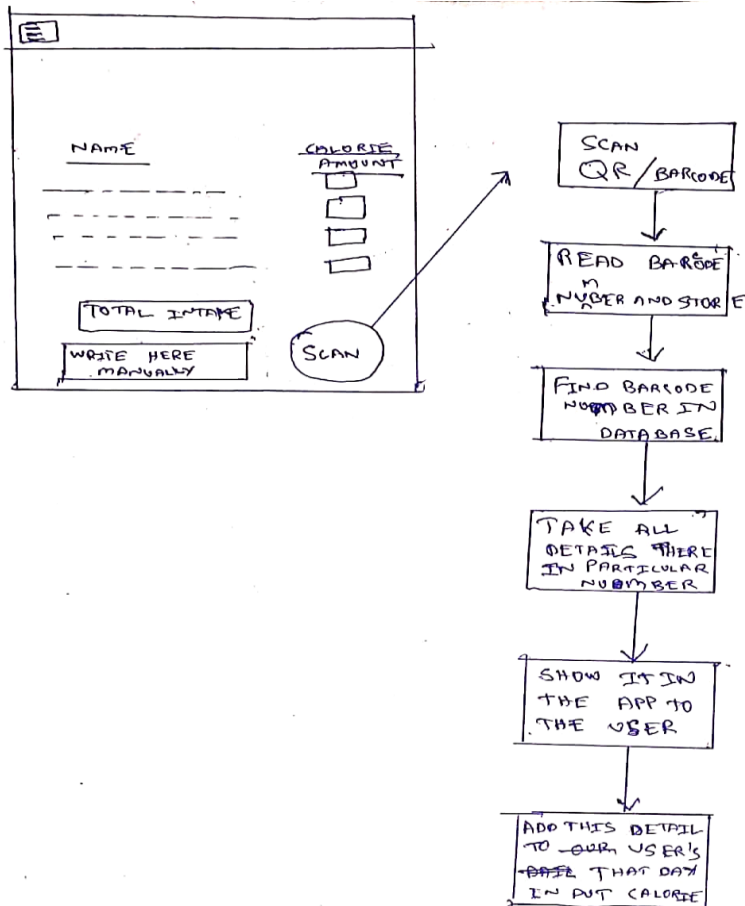
There are two main motivations for our app:

Firstly, the struggle people go through searching for the amount of calories in each food and then adding all the calories consumed by them and comparing it with the amount of calories burnt by them that day. If this does not match, they again have to decide how their diet should be changed to make them similar. This is quite irritating and time-consuming.

Secondly, the confusion people have regarding the thousands of diet plans available nowadays. Finding the suitable diet for each person is a herculean task.

These two problems were the source of a lot of headache for us and our idea was born due to these problems.

Methodology (block diagram, related figures etc)



Social Impact

Our app helps people in determining their exact food requirements and if people eat what their bodies require, most of the diseases which plague society, for example obesity, cardiac problems, deficiency disorders can be controlled. So it will improve the lives of the people and will allow the people to lead a healthier and ultimately happier life.

The improvement in the people's health will positively impact our country since healthy people means lower medical expenses and a better workforce.

Hence our idea will have a highly positive impact on society.

Market Survey

Nowadays, the fitness industry is booming. It's revenue jumped from \$83 billion in 2016 to \$94 billion in 2018. In revenue terms, it's growing at the rate of 8.7% per year.

This tells us that consumers are willing to pay good money for proper health and fitness.

The global health club market is worth \$87.2 billion and has grown every year since 2008.

India, China, Poland and Russia are expected to see the largest growth in the coming yeras.

The number of individuals having a gym membership has grown by a

whopping 37% since 2008.

One in five Americans and one in seven individuals in UK have a gym membership and this will almost certainly translate to usage of our app.

Thus, we can conclude that the fitness industry is certain never to lose popularity and its growth rate will only increase as knowledge spreads.

