Mobile Application Development Project Report

On

"Calorie Counter App"

Submitted in partial fulfilment requirements for the award of the Degree

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

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CERTIFICATE

This is to certify that the project entitled **"Calorie Counter App"** has been carried out by **Vijhisha V Bhandary 4NM20IS177, Vaishnavi Kundeshwara Bhat 4NM20IS170** the Bonafede students of NMAM Institute of Technology, Nitte in Information Science and Engineering during the year 2022-23. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements prescribed by Bachelor of Engineering degree in fifth semester.

Signature of the guide	**Signature of Examiner**	**Signature of the HOD**

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INTRODUCTION

Several mobile fitness devices as well as smart watches have emerged on the technology landscape. However, the rate of adoption of these devices is still low especially in developing countries with a teeming population. On the other hand, smart phones are becoming ubiquitous given their steady price decline. To this end, the present study aims to leverage the smartphone platform by developing a smart phone fitness app that tracks the calories burnt by individuals who go about their daily activities while carrying their smart phones with them.

This was then implemented using the following tools: Java – Android Studio. The initial results show that the app can gain traction in terms of its adoption given the fact that it is cheaper to download the app than buy a new smart watch for the same purpose.

This app calculates the calories depending on the user food input, displays the total calories consumed and add food into the database.

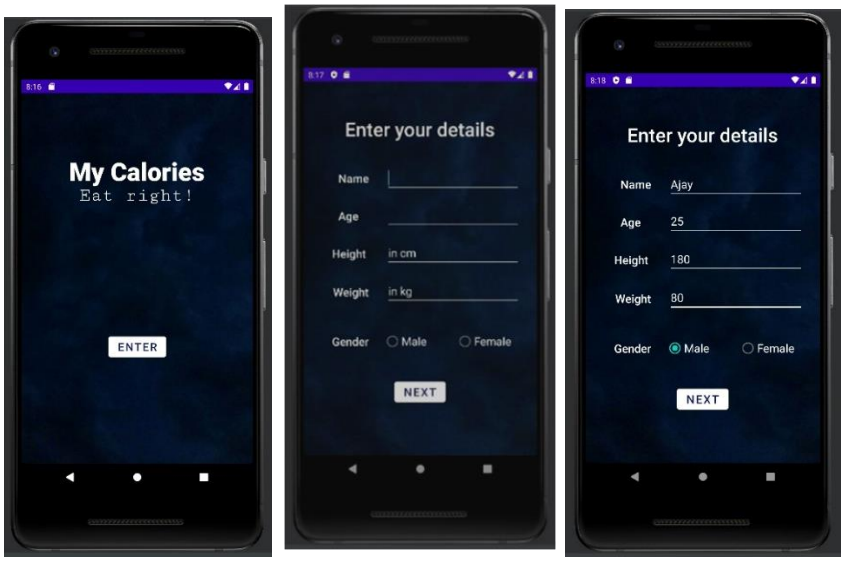
OBJECTIVES

- Mention the user details
- Display current calorie count
- Add food consumed
- If food not available add to database
- Count the number of calories consumed per day
- If calorie count exceeds notify the user
- Search food among the list of food items in the database

IMPLEMENTATION AND RESULTS

1. Login Page

User must input his personal details in order to login. Name, Age, Height, Weight, and Gender is asked essential for counting the calories. If the user misses out on any one of the details, a toast message is displayed. If all the details are filled, it takes us to the next page.



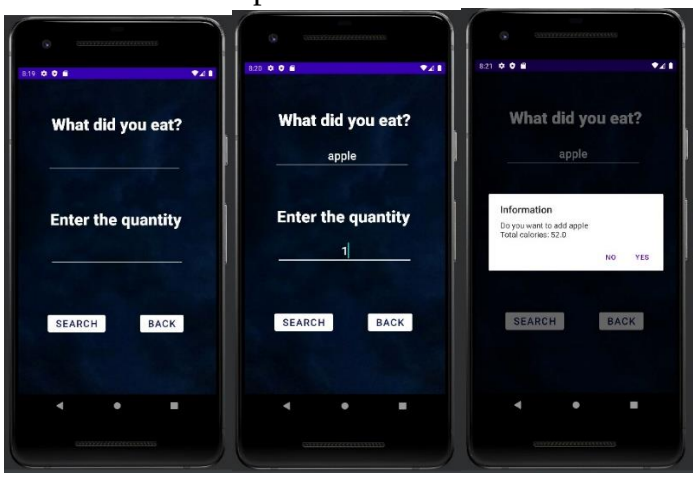
2. Calorie Counter

Once the login is completed successfully, it takes us to the page which displays the number of calories left to be consumed per day in the form of a progress bar. It also displays the total number of calories consumed and gives the user two options: Add food or Search food.

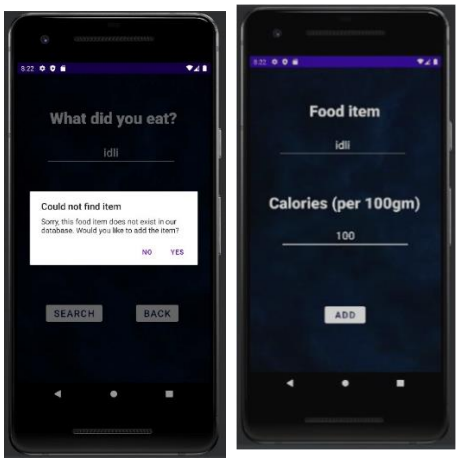
a) Add Food

Here the user inputs the name of the food he or she consumed and quantity of the food as well. Now the app checks for two possibilities:

- **Food available in the Database**
  If food is available in the database connected to the app, then an alert dialog box is displayed which asks the user whether they want to add that food which has "x" number of calories to their daily consumption list. If yes is selected then the result is displayed in the progress bar. If no is selected then it goes back to the page and the user can change the food item.
  Database: Dataset was taken from Kaggle and SQLite Database was used in Android Studio and using queries we selected the data we require i.e., the food item name and calories of the respective food.

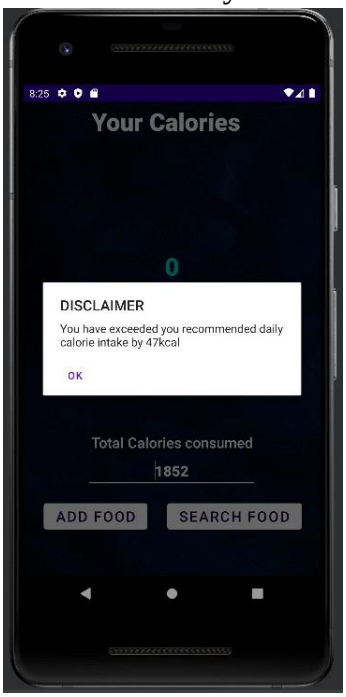


- **Food not available in the database**
  If food item is not available in the database, then the user has an option to add the food in the database. If he or she does not choose to add, it takes them back to the food item input page. If the user chooses to add then he is taken to another page where he must input the item name and the number of calories that food contains. Then the food is added to the database and he can add it to count the calories consumed.



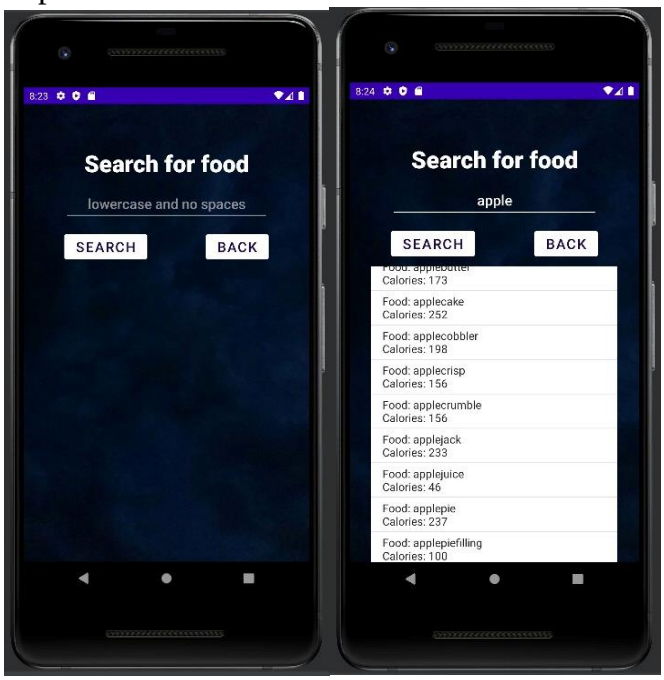
3. Final Result

Once all the calories are consumed then it displays an alert dialog which says that the user has exceeded his daily calorie count and by how many calories.



4. Modifications

The user also has an option to search for the food from the food list.



CONCLUSION

We believe this app will help many people who want to take care of their fitness but cannot afford fitness devices such as smart watches or any other fitness devices. This app can be downloaded in any smartphone with basic internet access. The app is user friendly and is easy for anyone to understand the working. The UI is attractive to the users and it is a simple process as well. It works in most of the android phones.

Using this app, people from all levels will have access to fitness monitoring and they can keep a check on their health as well. This will improve the mortality rate of humans and most importantly, the target audience is larger, broader, and diverse.

We hope that one day fitness will not be restricted to just the wealthy class of people but to all people who want to maintain their health.

REFERENCES

1. https://github.com/kiran15501/DEIT-FLOW2.0
2. https://github.com/EQDiet/EQDietAlphaMobile0.1