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BMI CALCULATOR

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ABSTRACT: The BMI Calculator App is a software application which avoids more manual hours that need to spend in personally calculate and find the BMI for a particular person at a single click. This application keeps both the standard in it ie American standard and Indian standard too. This app gives us all the information in both the standards which is not given in existing app. The main scope is to maintain the health. The BMI App gives us all the information ie it gives suggestion for our health and tells us what should we eat and what to avoid. When we enter the height and weight we get all the information ie are we overweight or underweight etc.

KEYWORDS: Android, Calculator, Application, Smartphones

I. INTRODUCTION

Android powers hundreds of millions of mobile devices in more than 190 countries around the world. It's the largest installed base of any mobile platform and growing fast—every day another million users power up their Android devices for the first time and start looking for apps, games, and other digital content. Android gives you a world-class platform for creating apps and games for Android users everywhere, as well as an open marketplace for distributing to them instantly.

This android application provides useful tools for arithmetic calculation, scientific calculation and conversions. It would be of great use especially for the students as they hold the majority percentage of the smartphone users in today's time and they need some tools for the long calculations they have to do in their academics. The All in one calculator application consist of the following:

1. **Simple Calculator :**

In the simple calculator basic calculations involving addition, subtraction, multiplication and division can be performed.

2. **Scientific Calculator :**

In the scientific calculator calculations involving sine, cosine, tangent, logs, Square roots, Cube roots etc can be performed.

3. **Conversions:**

This is further divided into sections as follows:

4. **Speed Conversion:**

It helps in converting speed from m/s to km/hr and vice versa.

5. **Number Conversion:**

It helps in converting a number from one base to another.

6. **Unit Conversion:**

It helps in converting values in one unit to another for example meter in centimeters.

7. **Temperature Conversion:**

It helps in converting temperature values in Celsius in Fahrenheit.

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II. EXISTING SYSTEM

The existing system is somewhat time consuming and hard to calculate. Calculators are small, portable electronic devices used to perform simple as well as complex calculations in a fraction of a second. The idea of a calculator came from the abacus used long back in 2000 BC; after that there were various inventions and mechanical calculators came in use. Scientific calculators were made to solve these scientific calculations. But in the 21st century where people have started using laptops, tablets, smartphones etc. then why would they carry such calculators. So in this research paper I am introducing an android application known as the All in one calculator, where in all sorts of calculations from simple arithmetic calculations to long scientific calculations can be done in just a click on the smartphone screen. The users of this application will have a tool to do all sorts of calculations with ease.

DISADVANTAGES:

The following are the disadvantages of the existing system -

- I. It is very time consuming
- II. Lot of energy and effort is wasted.
- III. Wastage of Pages.
- IV. Hard to maintain old records.
- V. Queries are hard to apply.

III. PROPOSED SYSTEM

The BMI Calculator App is software applications which avoids more manual hours that need to be spent in personally calculating and finding the BMI for a particular person at a single click. This application keeps both the standard in it i.e. American standard and Indian standard too. This app gives us all the information in both the standards which is not given in existing apps.

IV. SCOPE OF THE SYSTEM

The main scope is to maintain the health. The BMI App gives us all the information i.e. it gives suggestions for our health and tells us what should we eat and what to avoid. When we enter the height and weight we get all the information i.e. are we overweight or underweight etc.

V. FEASIBILITY STUDY

A Feasibility Study's main goal is to assess the economic viability of the proposed business. The feasibility study needs to answer the question "Does the idea make economic sense?" The study should provide a thorough analysis of the business.

The outcome of the feasibility study will indicate whether or not to proceed with the proposed venture. If the result of the study is positive then the cooperative can proceed to develop a business plan.

A feasibility study should examine three main areas:

- Technical Feasibility
- Economic Feasibility
- Operational Feasibility

A. Technical Feasibility:

This study reveals all the technical aspects and its corresponding results. The project entitled "**BMI Calculator**" is technically feasible because of the below mentioned features.

The project was developed in **Android using JAVA** which Graphical User Interface. It provides the high level of

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reliability, availability and compatibility. All these make Eclipse an appropriate language for this project. Thus our project is technically feasible.

B. Economical Feasibility:

Based on the estimates that have been gathered from the preceding sections of the study, the organization needs to determine its overall financial situation.

Questions such as the following need to be considered:

- What is total startup costs required to begin the operation?
- What are the operating costs are involved?

As far as the project is concerned,

There are financial benefits arising due to improved reliability and accuracy of information.

The system has little hardware requirement which minimizes the hardware procurement cost. Thus the system is economically feasible since it outcasts the entire overhead incurred due to implementation.

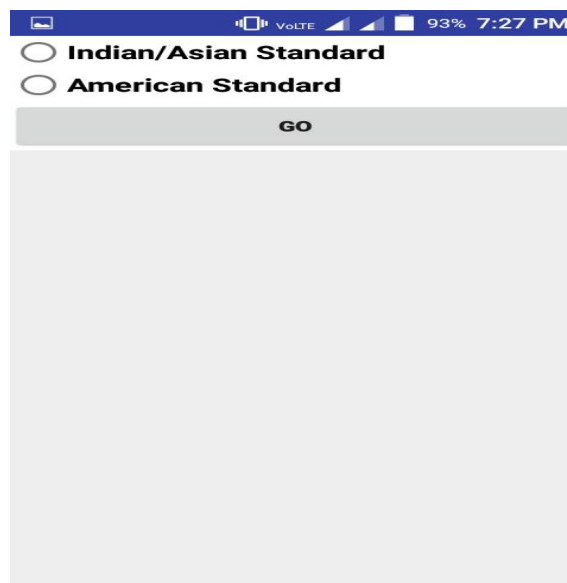
The computerized system will help in automate the selection leading the profits and details of the organization. With this software, the machine and manpower utilization are expected to go up by 80-90% approximately. The costs incurred of not creating the system are set to be great, because precious time can be wanted by manually.

C. Operational Feasibility:

The system is easier to handle and does not require special training to handle it. Proper alerts and messages are provided to inform the user of any special events.

The user will be easily able to adapt to the system. The system keeps the records very precisely and information can be accessed within few second.

VI. EXPERIMENTAL RESULT





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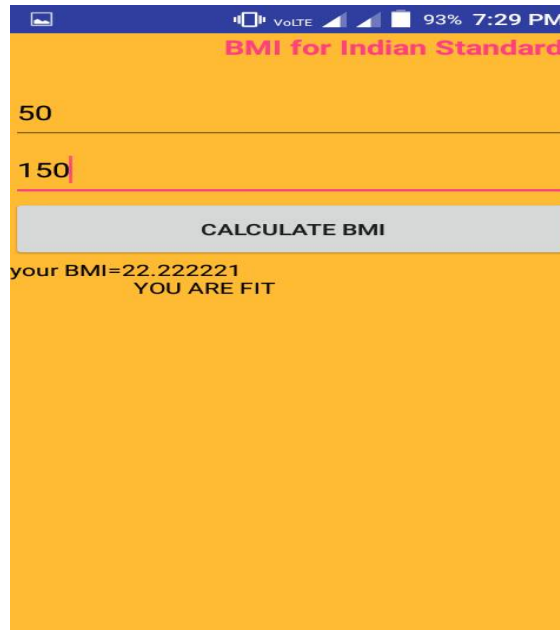
The image displays two screenshots of a mobile application. The top screenshot shows a selection screen with two radio button options: **Indian/Asian Standard** (which is selected) and **American Standard**. Below the options is a grey button labeled **GO**. The bottom screenshot shows the **BMI for Indian Standard** calculation screen. It features two input fields: **Weight in Kg** and **Height in cm**. Below these fields is a grey button labeled **CALCULATE BMI**. Both screenshots show a status bar at the top with 'VolTE', signal strength, 93% battery, and 7:27 PM.

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VoLTE 93% 7:29 PM

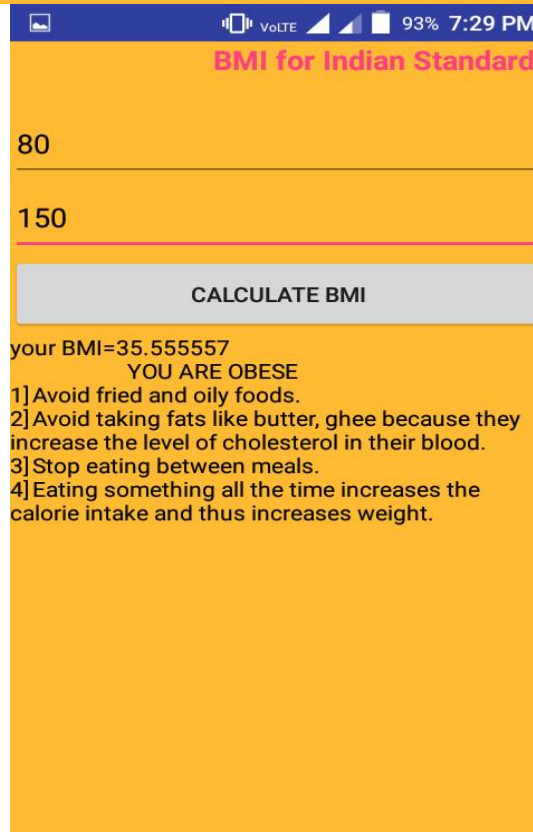
BMI for Indian Standard

50

150

CALCULATE BMI

your BMI=22.22221
YOU ARE FIT



VoLTE 93% 7:29 PM

BMI for Indian Standard

80

150

CALCULATE BMI

your BMI=35.55557
YOU ARE OBESE

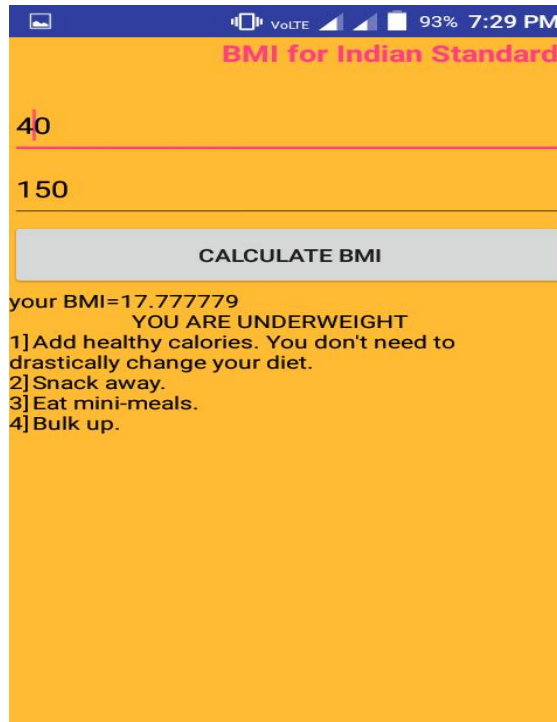
- 1] Avoid fried and oily foods.
- 2] Avoid taking fats like butter, ghee because they increase the level of cholesterol in their blood.
- 3] Stop eating between meals.
- 4] Eating something all the time increases the calorie intake and thus increases weight.

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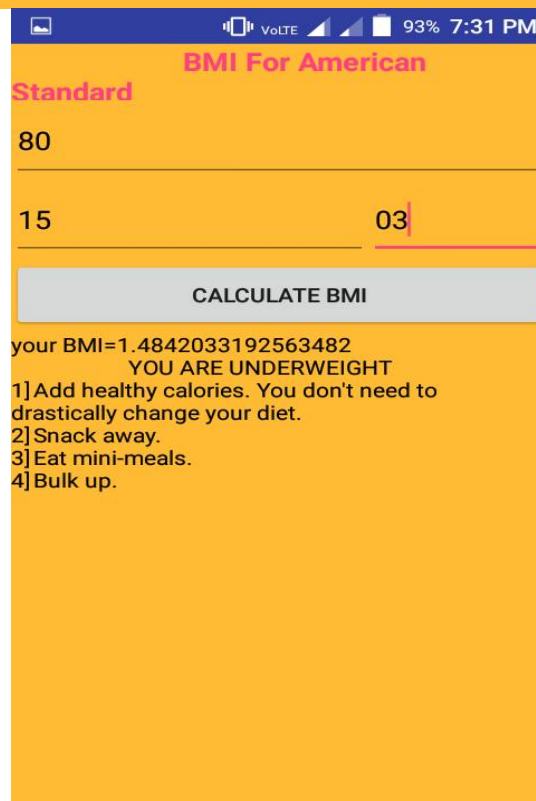


40

150

CALCULATE BMI

your BMI=17.777779
YOU ARE UNDERWEIGHT
1]Add healthy calories. You don't need to drastically change your diet.
2]Snack away.
3]Eat mini-meals.
4]Bulk up.



80

15

03

CALCULATE BMI

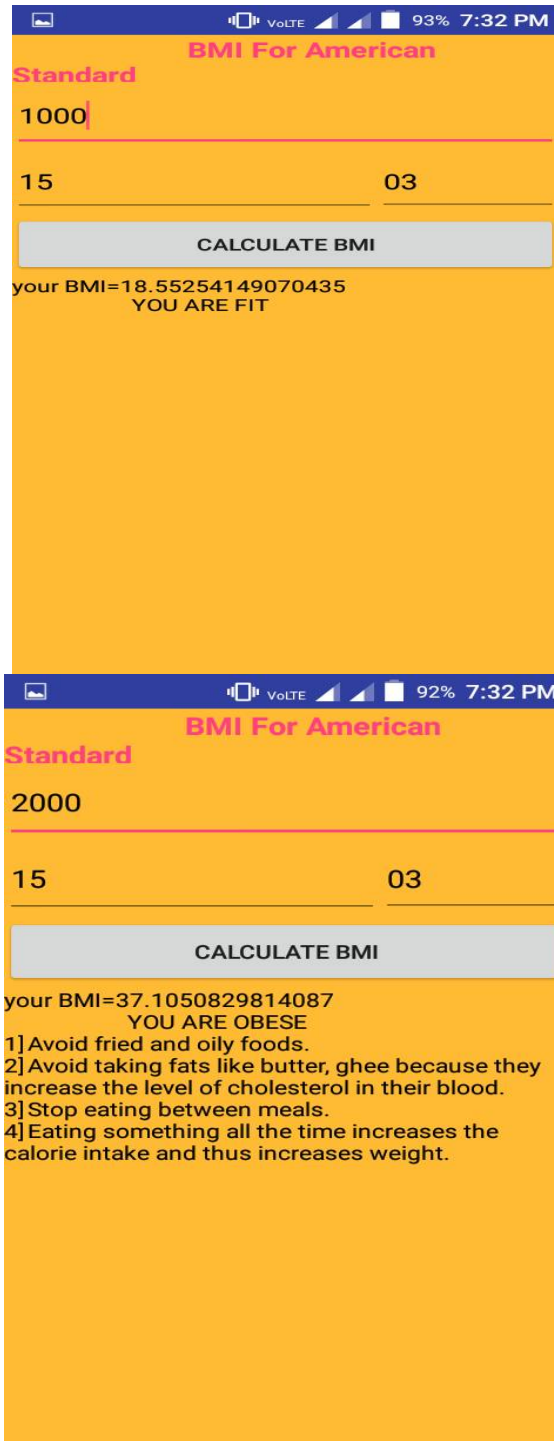
your BMI=1.4842033192563482
YOU ARE UNDERWEIGHT
1]Add healthy calories. You don't need to drastically change your diet.
2]Snack away.
3]Eat mini-meals.
4]Bulk up.

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VII. FUTURE ENHANCEMENTS

This application avoids the manual work and the problems concern with it. Centralized management of the database & one app to manage the BMI Calculator of the different section of the female/male etc. Well I and my team member have worked hard in order to present an improved project/app better than the existing one's regarding the information about the various activities. Still, we found out that the project can be done in a better way. We can add alter msg to her/him to eat and excise.

VIII. CONCLUSION

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the efficiency
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the time complexity.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

REFERENCES

The following books were referred during the analysis and execution phase of the project:

1. Android Tutorial
2. mybringBack.com
3. The NewBoston.com
4. PROGRAMMING WITH ANDROID

WEBSITES:

5. www.google.com
6. www.w3Schoolcom