



UNIVERSITY *of* MAKENI

Building a Civilization of Love

Computer Science Department

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Project Proposal: BMI Calculator Development

Introduction

This project proposal outlines the development of a Body Mass Index (BMI) calculator, a software tool designed to help users determine their BMI based on their height and weight. The BMI calculator will be a user-friendly application that provides instant feedback on a user's health status based on standard BMI categories. The tool will be accessible and easy to use, catering to individuals who want to quickly assess their health status.

Problem Statement

The problem addressed by this project is the lack of accessible and easy-to-use tools for individuals to calculate their BMI and understand their health status. Many people are unaware of how to manually calculate BMI, and existing tools may not be intuitive or readily available. This project aims to create a simple, accurate, and accessible BMI calculator that can be used by anyone to monitor their health.

Project Scope

The scope of this project is to develop a BMI calculator with core functionalities that are easy to use and provide accurate results.

- Development of a user-friendly interface for inputting name, height and weight.
- Implementation of the BMI calculation formula.
- Display of BMI results along with standard health categories (Underweight, Normal, Overweight, Obese).
- Basic error handling (e.g., invalid input).

BMI Calculator (Body Mass Index)- Documentation

1. Introduction

This project is a Body Mass Index (BMI) calculator developed using HTML, CSS, and JavaScript. It allows users to input their names, weight and height to calculate their BMI and determine their weight category.

2. Technologies Used

The following technologies were used to develop this BMI calculator:

- HTML - For structuring the web page
- CSS - For styling the web page
- JavaScript - For implementing the BMI calculation logic

3. Features

The BMI calculator includes the following features:

- Allows users to input their names, weight and height
- Calculates the BMI based on the input values
- Displays the BMI result and the corresponding weight category
- Uses CSS for a visually appealing user interface

4. Code Explanation

4.1 HTML (BMI.html)

The HTML file provides the structure of the BMI calculator. It includes input fields for the name of the user, weight and height, a button to trigger the calculation, and a section to display the result.

4.2 CSS (BMI.css)

The CSS file is used to style the BMI calculator. It enhances the appearance of the input fields, buttons, and result display section.

4.3 JavaScript (BMI.js)

The JavaScript file contains the logic for calculating BMI. When the user inputs their weight and height and clicks the calculate button, the script retrieves the values, performs the BMI calculation, and updates the result section accordingly.

5. Hosting with InfinityFree

The BMI calculator was hosted using InfinityFree, a free web hosting service. InfinityFree provides free hosting with PHP, MySQL, and no ads, making it a great option for deploying small projects.

5.1 Steps to Host on InfinityFree

The following steps were taken to host the BMI calculator on InfinityFree:

1. Created an account on InfinityFree.
2. Set up a new hosting account and obtained a free subdomain.
3. Uploaded the project files (HTML, CSS, JavaScript) to the InfinityFree file manager.
4. Configured the website to ensure all resources loaded correctly.
5. Tested the live website to confirm it was working properly.

6. How to Use

Follow these steps to use the BMI calculator:

1. Open any web browser enter “davbmicalculator.infy.uk” or you can click this link = “[BMI Calculator](#)”
2. Enter your name
3. Enter your Height in Inches.
4. Enter your Weight in Pounds.
5. Click the 'Calculate' button.
6. Then You'll View the name that was inputted, the calculated BMI and corresponding weight category on the comment section.
7. If you want to calculate for others you can simple click on “Reset” and Follow the same procedure.

7. Conclusion

This BMI calculator is a simple yet useful web-based tool to determine a person's body mass index (BMI) based on their weight and height. Future improvements could include adding more styling, responsiveness for mobile devices, and additional health-related insights based on the BMI value.