

# **Functional Requirements Document - BMI Calculator**

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## 1. Project Overview

The BMI Calculator is a web-based tool that allows users to calculate their Body Mass Index (BMI) using their height and weight. It supports multiple units for both inputs and provides instant feedback on the BMI value and its health category. The application is designed to be user-friendly, responsive, and informative.

## 2. Functional Requirements

Feature	Description
Height Input	Accepts numeric input for height.
Height Units	Dropdown to select cm, inches, or feet.
Weight Input	Accepts numeric input for weight.
Weight Units	Dropdown to select kg or lbs.
Validation	Ensures inputs are positive numbers.
Unit Conversion	Converts height to meters and weight to kilograms.
BMI Calculation	Uses formula: $BMI = \text{weight (kg)} / \text{height}^2 \text{ (m}^2\text{)}$ .
Result Display	Shows BMI value and category (Underweight, Normal, Overweight, Obese).
Navigation	Links to About and Resources pages.

### 3. UI/UX Design

- **Landing Page:** Welcoming interface with a call-to-action button.

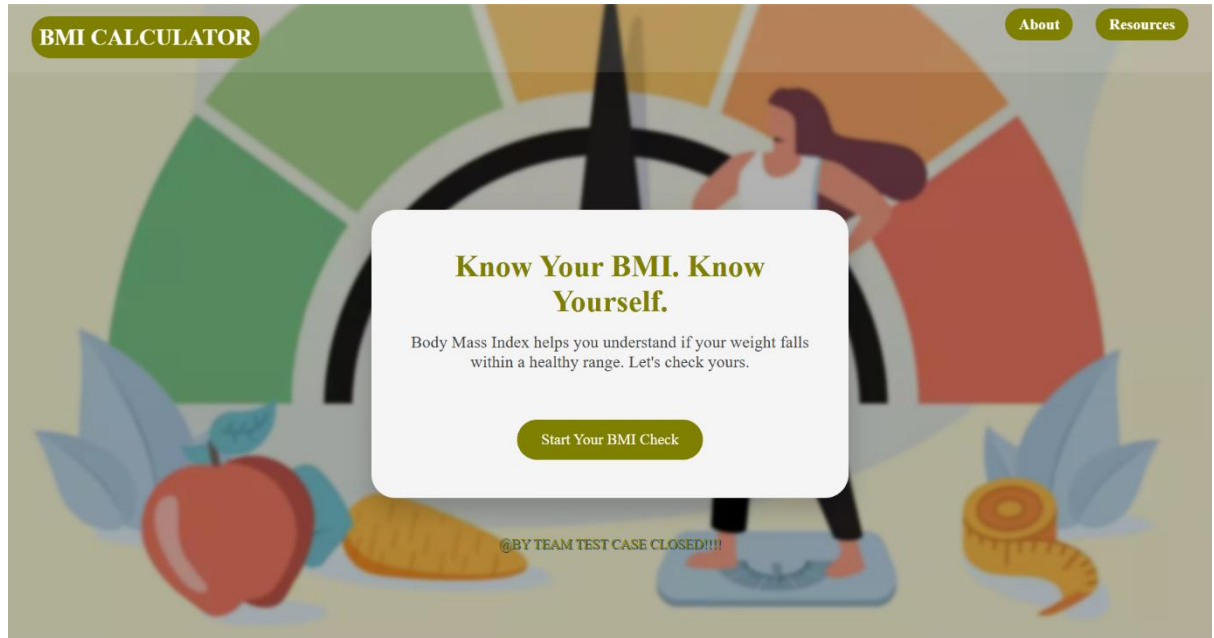


Figure: Landing Page

- **BMI Calculator Page:** Clean form layout with animated transitions and responsive design.

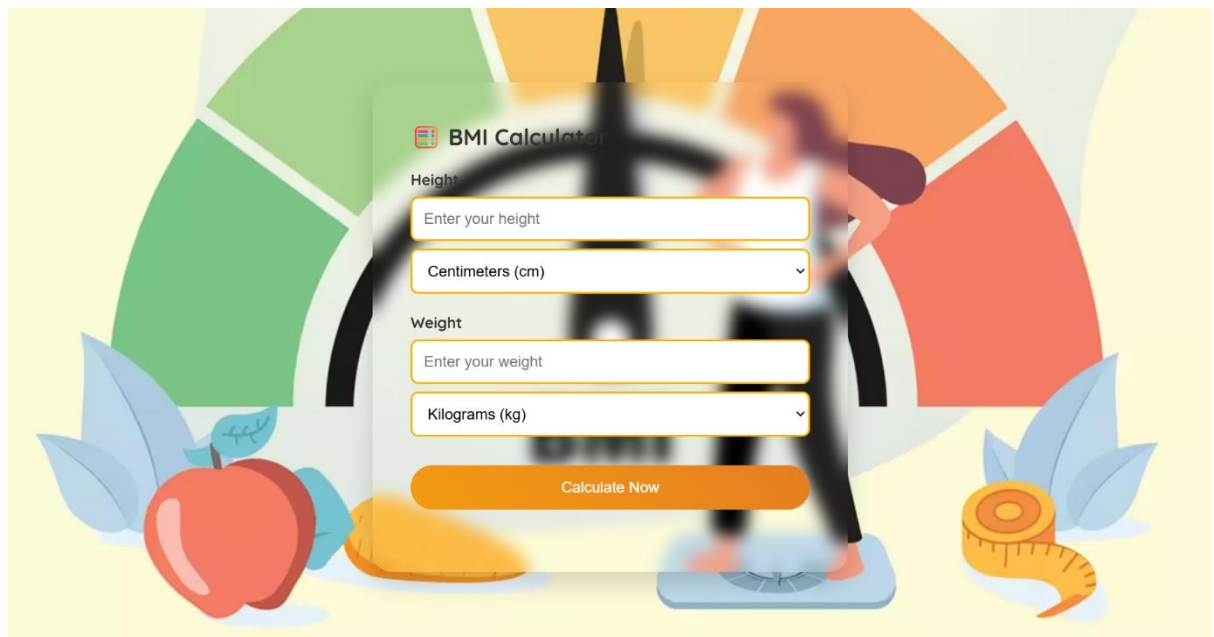
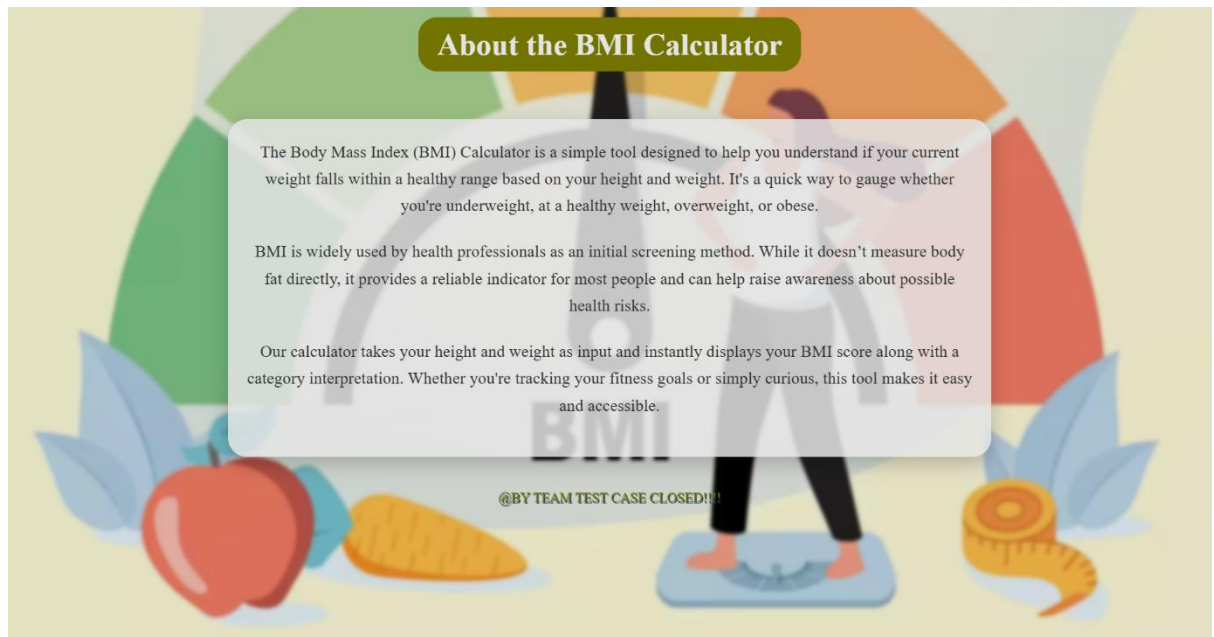


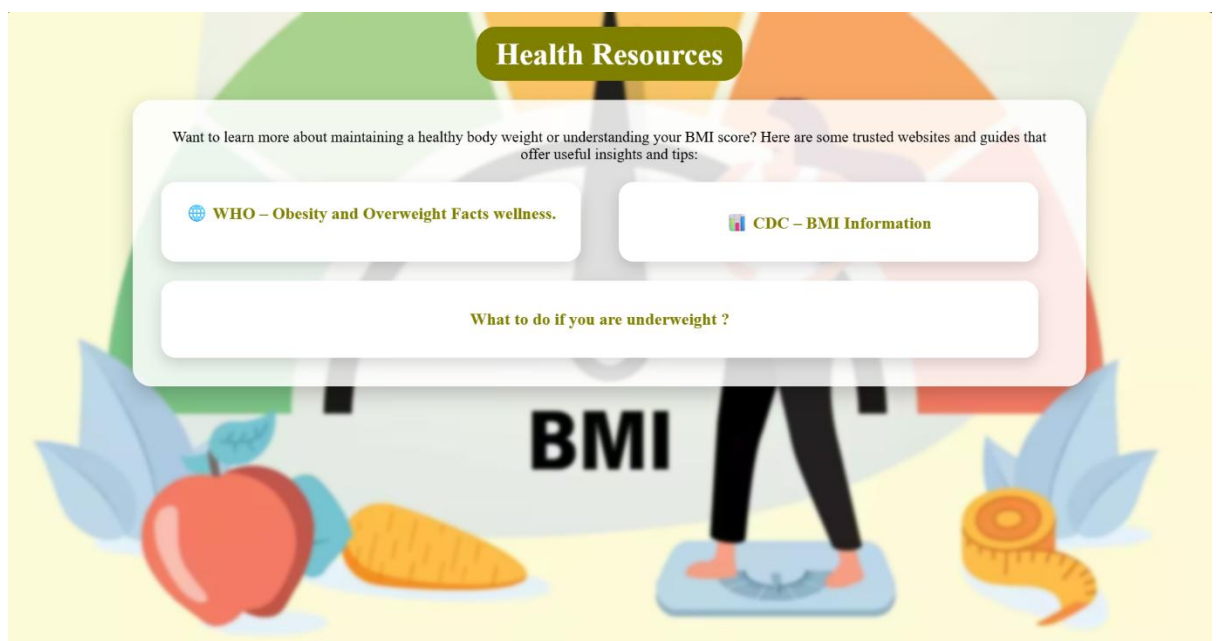
Figure: BMI Calculator

- **About Page:** Explains the purpose and importance of BMI.



**Figure: About Page**

- **Resources Page:** Provides external links to health-related content.



**Figure : Resource Page**

## 4. Technology Stack

Layer	Technology
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Frontend	HTML5, CSS3, JavaScript
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Fonts	Google Fonts (Quicksand, Times New Roman)
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Media	Background images from Cleveland Clinic
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Hosting	Static web hosting (e.g., GitHub Pages, Netlify)
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## 5. Enhancements (Future Scope)

- BMI history tracking
- Graphical representation of BMI trends
- Mobile-first design improvements
- Accessibility enhancements
- Integration with health APIs

## 6 . Project Link

The application is deployed on Github and can be accessed via the following link -

<https://vagdevimahendrada.github.io/BMICalculator/>