

Final Project Report

Smart Calorie Analyzer

Name: Jayasree Dondapati

Student ID: 02081274

Our platform, the "Smart Calorie Analyzer," provides a robust suite of features dedicated to promoting health and wellness. The user journey commences with a secure and user-friendly login page, presenting options for sign-up, sign-in, and password recovery. After successful authentication, users are welcomed to the home page, acting as the central hub for diverse health-related functionalities.

At the core of our application are powerful features, including a Calorie Calculator that utilizes user-provided details like age, height, and weight to compute personalized daily caloric requirements. This tool not only computes calories but also offers insightful recommendations tailored to individual profiles. Additionally, the BMI Calculator evaluates the user's Body Mass Index, offering a clear classification into categories such as overweight, underweight, or normal weight, and providing dietary recommendations based on their category.

The Food Tracker component harnesses the capabilities of the Firebase Database to store and retrieve nutritional information for various foods. This empowers users to monitor their daily food intake, enabling them to make informed decisions about their diet. The integration of a reliable database ensures accurate and up-to-date nutritional values for a diverse range of foods.

Moreover, our platform extends beyond individual health metrics by incorporating a Location Feature powered by the Google Maps API. This functionality not only reveals users' current locations but also enables them to explore nearby places pertinent to their health and fitness objectives. Whether searching for gyms, health food stores, or wellness centers, this feature enhances the overall user experience by introducing a practical and location-based dimension to the app.

In essence, the "Smart Calorie Analyzer" adopts a comprehensive and user-centric approach to health management, combining crucial metrics like calorie and BMI calculations with practical tools such as food tracking and location-based services. This holistic approach positions our app as an invaluable companion for users embarking on their journey toward a healthier lifestyle.