Child Health Monitoring System

AI-Powered Height Estimation

Estimate a student’s height using **AI-based image processing** through the device camera, eliminating the need for manual measurement.

BLE-Based Weight Measurement

Utilize **Bluetooth Low Energy (BLE)** connected weight machines to **automatically calculate and record the weight** of children during health checkups.

Two-Factor Authentication (2FA)

Secure login on both the **Web Dashboard** and **Mobile Application** using **Two-Factor Authentication** to ensure only authorized users can access the system.

Growth Monitoring Dashboard

A comprehensive **Web Dashboard** displays students' growth data through **charts and visualizations**, allowing for easy analysis and reporting.

Task Assignment & Notifications for Workers

Enable administrators to **assign tasks** directly to Anganwadi workers and keep them informed through **real-time mobile app notifications**. This ensures efficient task distribution and immediate communication of important updates.

QR Code-Based Student Identification

Each student is assigned a unique QR code. **Scanning the QR code** allows instant access to their **health and growth details**, even from outside the app

Web Dashboard

Provides a centralized platform for administrators to monitor Anganwadi centers, track worker performance, and coordinate effectively.

Monitoring

Visualizes child growth trends using intuitive graphs, enabling easy monitoring and timely health insights.

Assigning tasks

Assign specific children to individual Anganwadi workers for targeted nutrition plans and focused follow-up actions.

Sync data

All collected data is securely transmitted to government-approved storage systems, ensuring privacy and compliance on a scheduled basis.

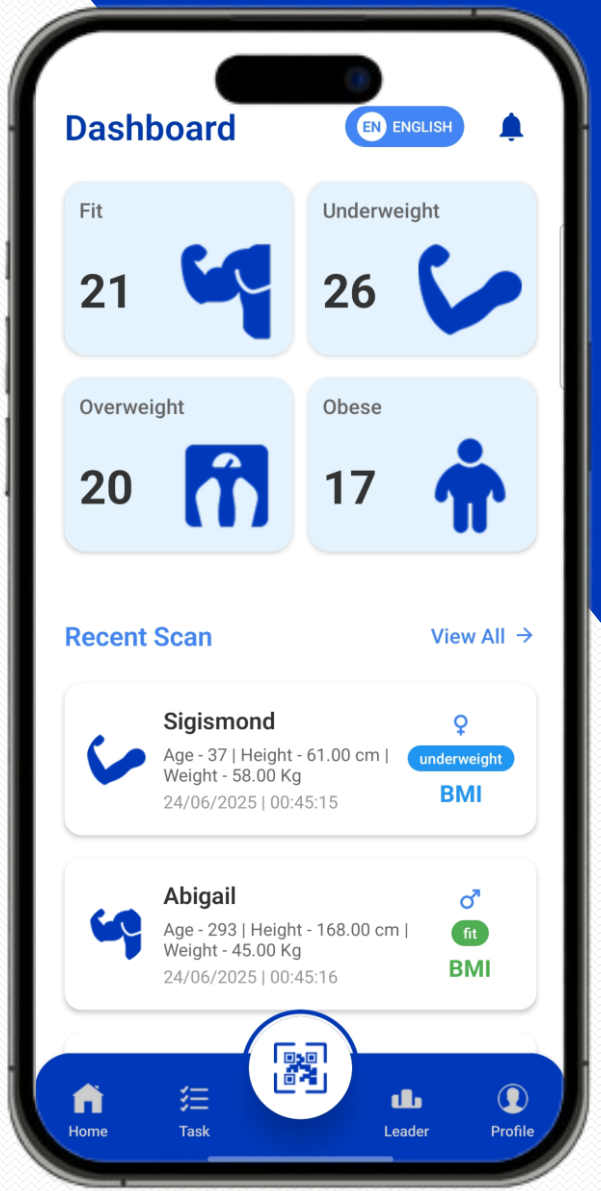
Notification

Sends timely reminders, health tips, and growth-related advice to caregivers and Anganwadi workers for better follow-up care.

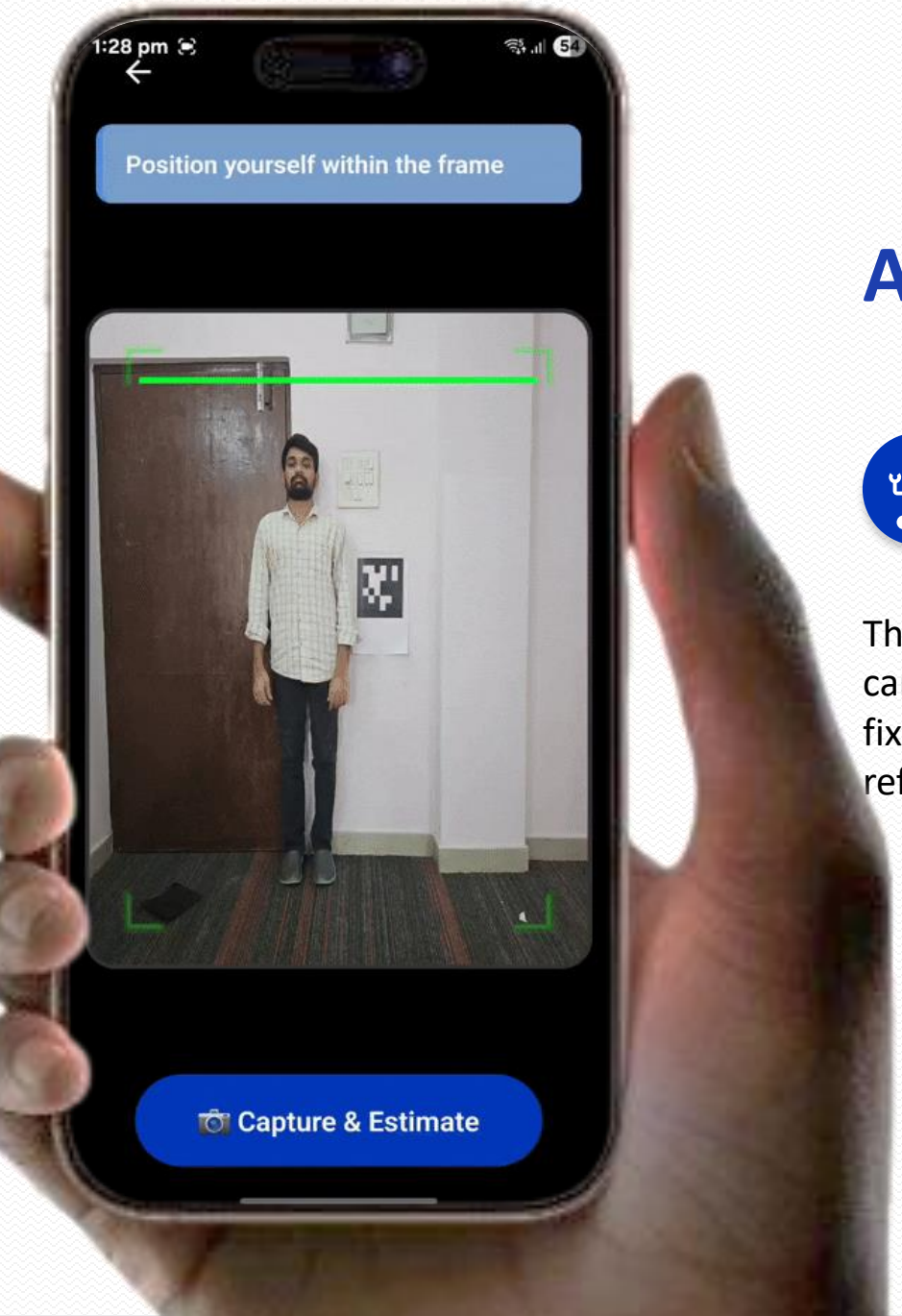
Mobile Application

Allows workers to track and update child growth data, manage assigned tasks, and monitor progress.

Child Growth Monitor.



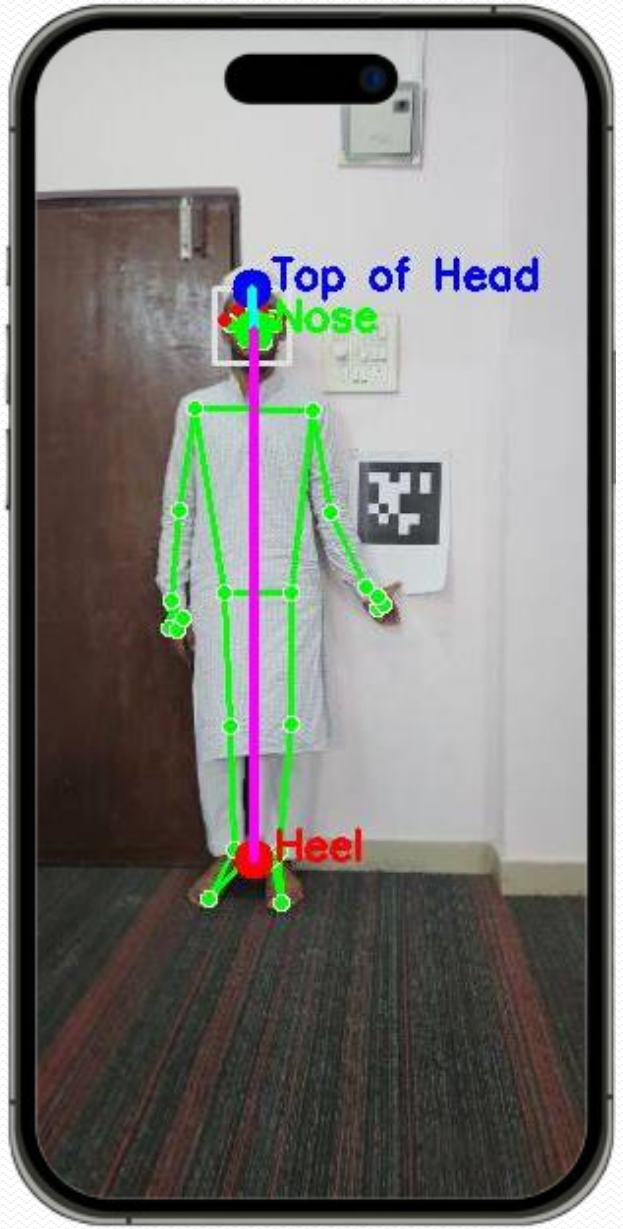
- Anganwadi Specific Login
- Ai Height Estimation
- BodyMassIndex.(BMI)
- Leaderboards for workers

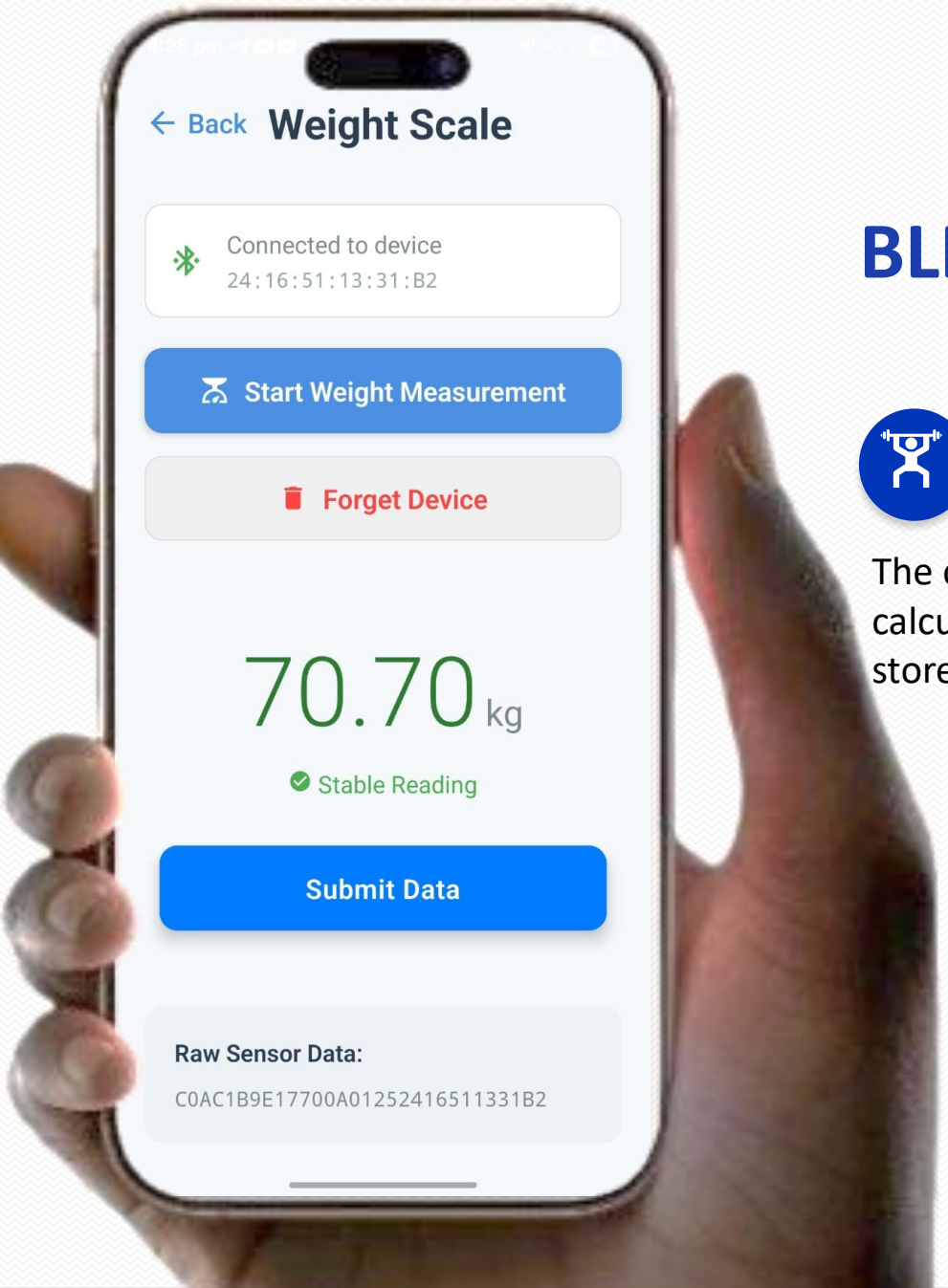


AI Height Estimation

Estimating height using camera input with our AI model

The person's height is estimated using an camera input beside an Marker (240mm) fixed on a straight wall for accurate scale reference.





BLE Weight Machine

Communicating BLE Weight Machine with our app

The candidate's weight is used with height to calculate his bmi and then the data is being stored in centralized server.

Tasks Screen and Notifications.

Upcoming Tasks

Get a clear view of upcoming tasks to plan work in advance.

Daily Specific Tasks

Displays daily tasks based on selected date for easy viewing and completion by Anganwadi workers.

Completed Tasks

Worker can track the completed tasks .

Notifications

Notifications which are created by an admin for anganwadi workers.

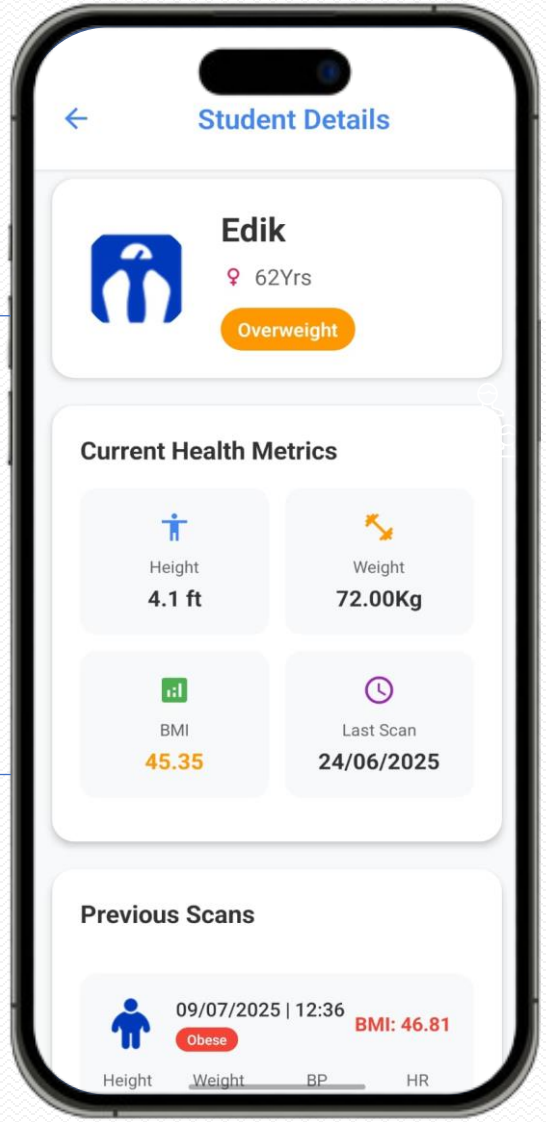
Student Details

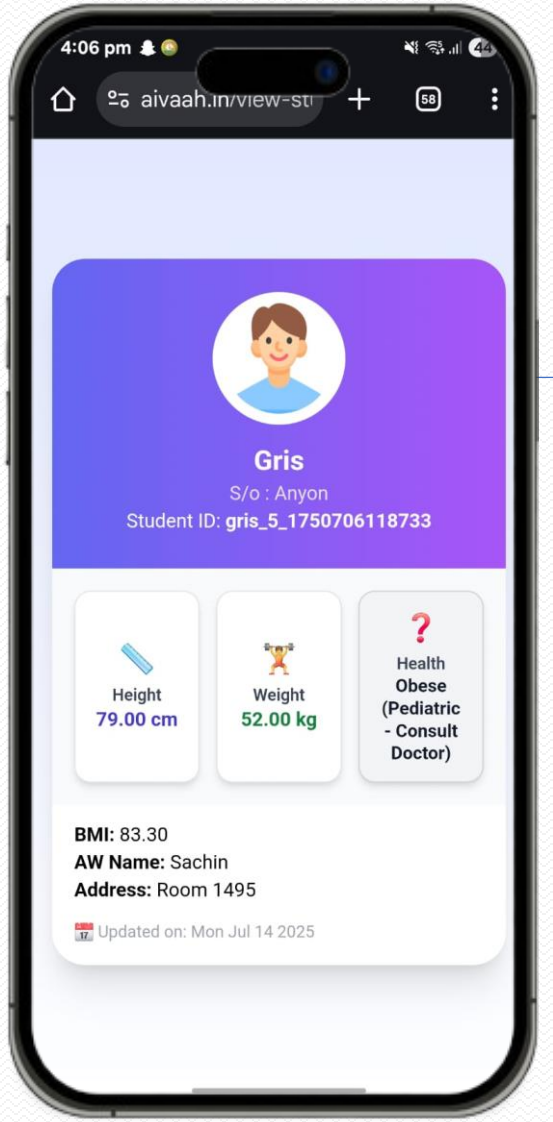
Current Health Status

The current health status of student will be displayed according to the latest data.

Previous Scans

Display all the scans that an anganwadi worker did for a particular student

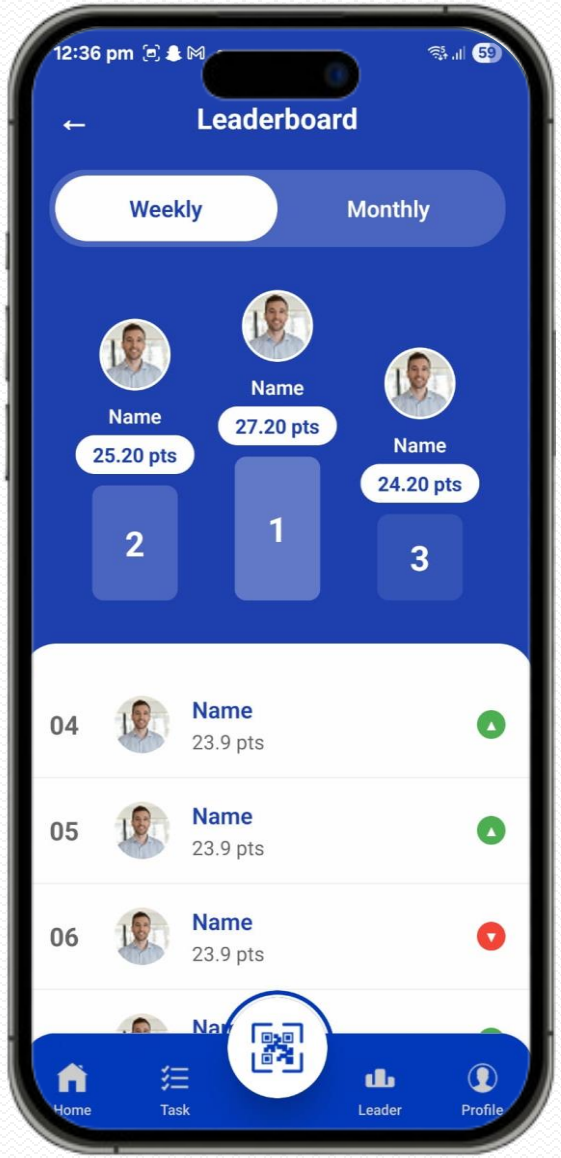




Student Card

When the student's QR code is scanned externally, their Health Card will be shown.

Leaderboards

Highlights top performers over the month based on total points earned from student scans.

Ranks workers based on scans completed each week to encourage consistent performance.