

**SMART INDIA  
HACKATHON  
2022**

# Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:  
Department of School, Education & Literacy, Ministry of  
Education:

PS Code: RK779

Problem Statement Title:  
Tracking the impact of PM POSHAN on a child's nutritional  
status and physical health and well-being.

Team Name: The Dedicoders

Team Leader Name: Bhavyashu Agarwal

Institute Code (AISHE): C-19946

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Institute Name: Keshav Memorial Institute of Technology

Theme Name: Fitness and Sports

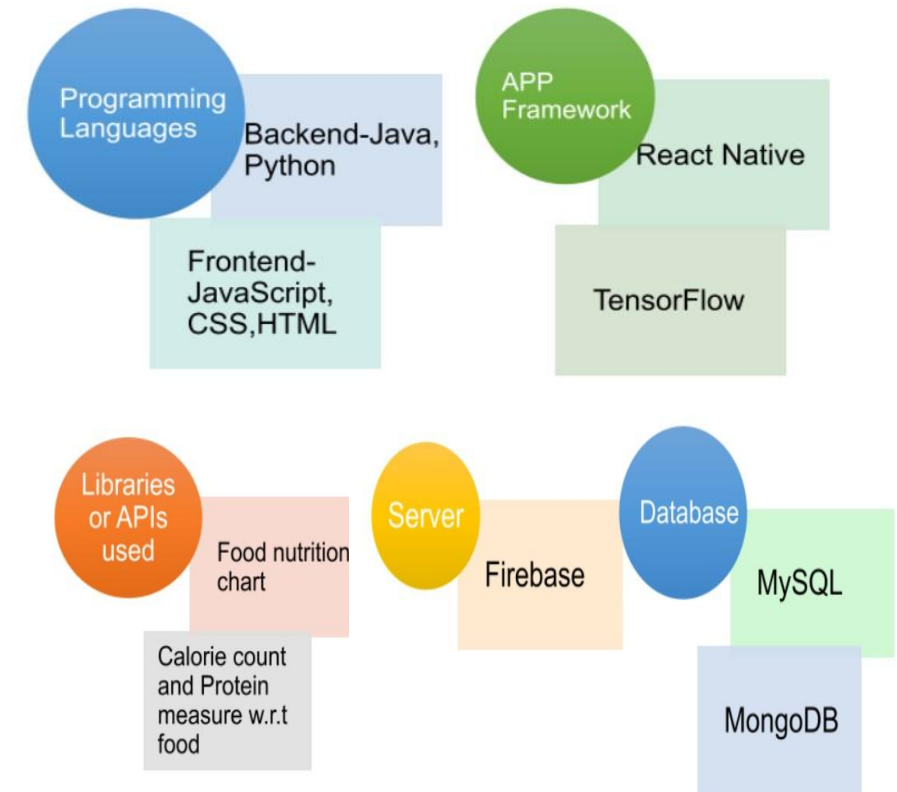
# Idea/Approach Details:

- **PM POSHAN is a mid-day meal programme for giving one hot cooked and nutritious meal to students of class 1 to 8 in all Government and Government-aided schools.**
- **According to the PM POSHAN Scheme, the app is accessible by University Volunteer Inspector, School Management which primarily includes a Nutrition expert and Guests providing special food to students on special occasions which is the concept of TITHI BHOJAN.**
- **Through our app, the attendance and POSHAN intake of each student is being tracked.**

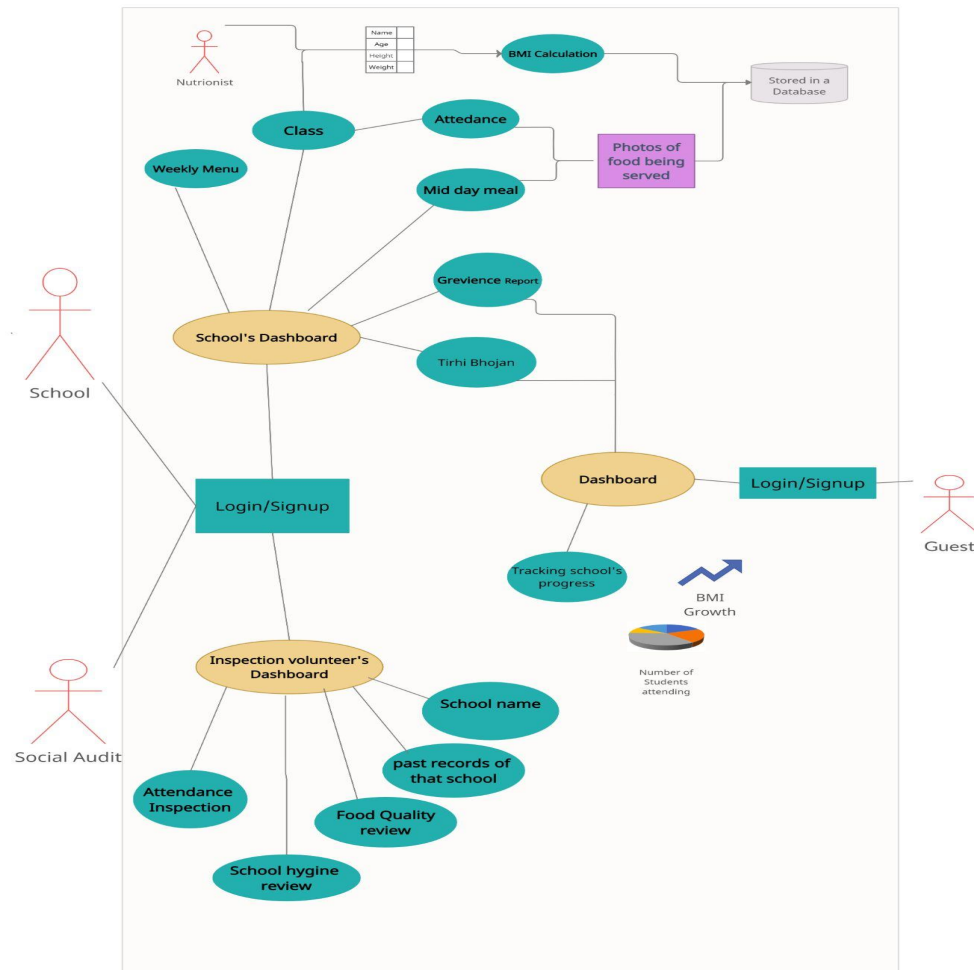
**Other provisions include -**

- **BMI tracking through which physical health and well-being of a student is being taken care of,**
- **the weekly menu of the school to check if requisite calories are being served to each child which is implemented using AI based calories counting API,**
- **random photographs of meals being served which is implemented using OpenCV (an AI based open source tool kit that enables image processing and object tracking).**

## Tech stack :



## Use case diagram:



## Dependencies :


- API for calorie count.
- Schools' database.
- Hosting and cloud storage using AWS.
- Algorithm that detects head count while food is being served

## Show Stoppers:

- Management has to provide student database.
- Details need to be updated regularly.
- Photos should not be uploaded from gallery.

Mockup App:

POSHAN Abhiyan



सत्यमेव जयते

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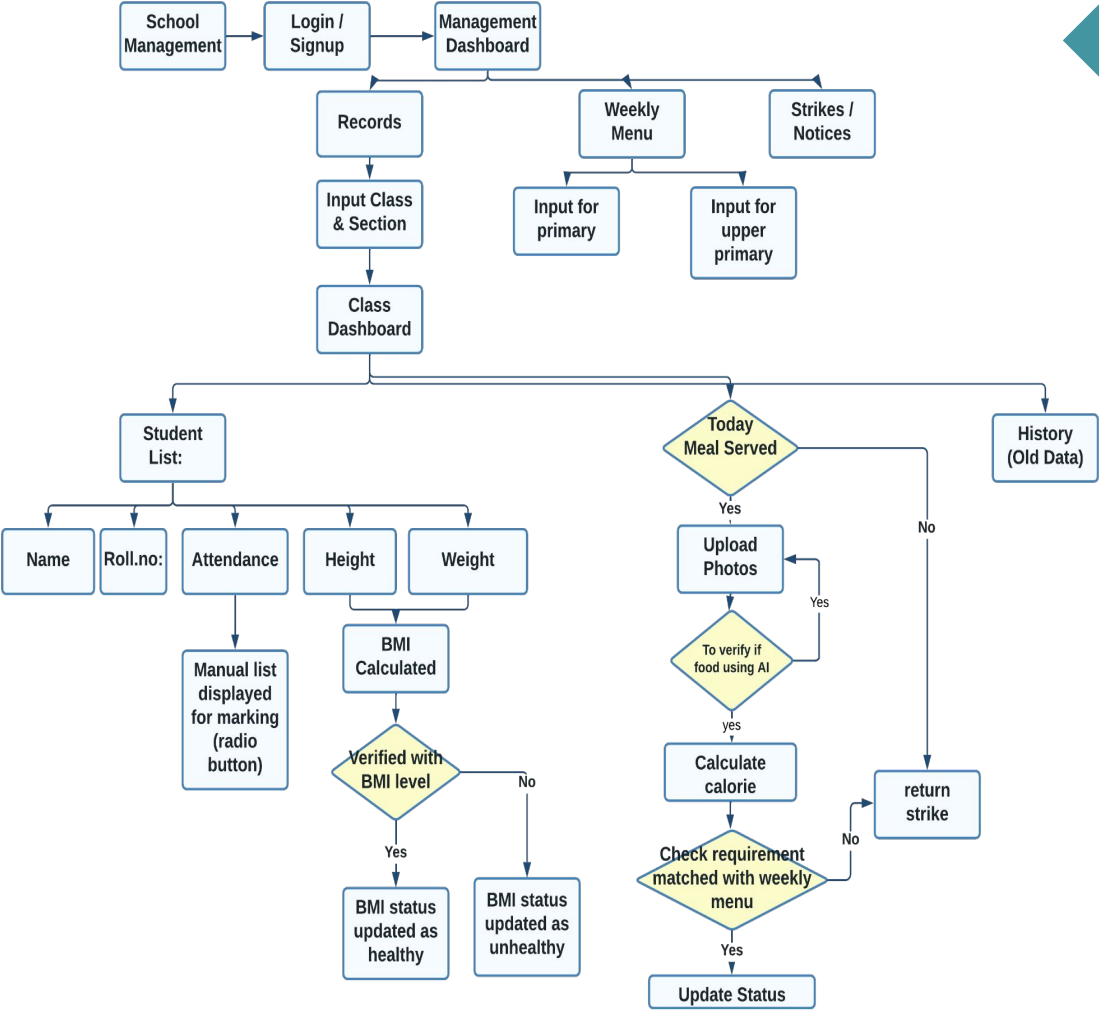
Login with OTP

POSHAN Abhiyan

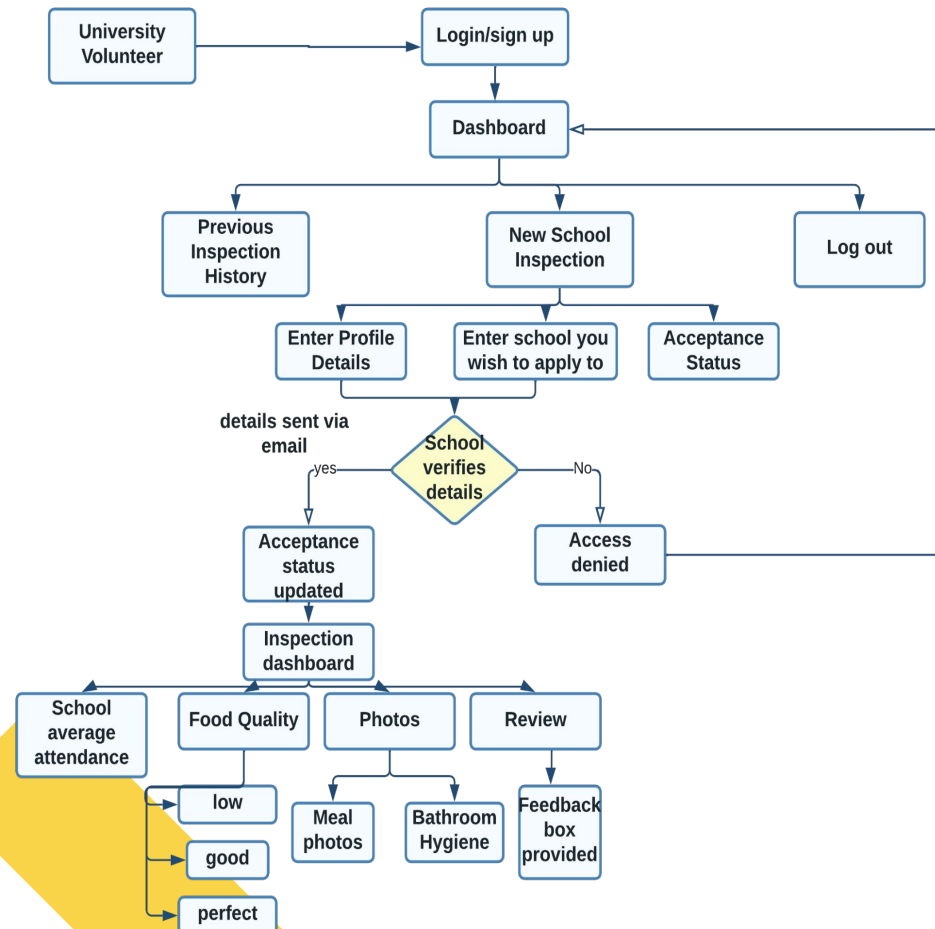


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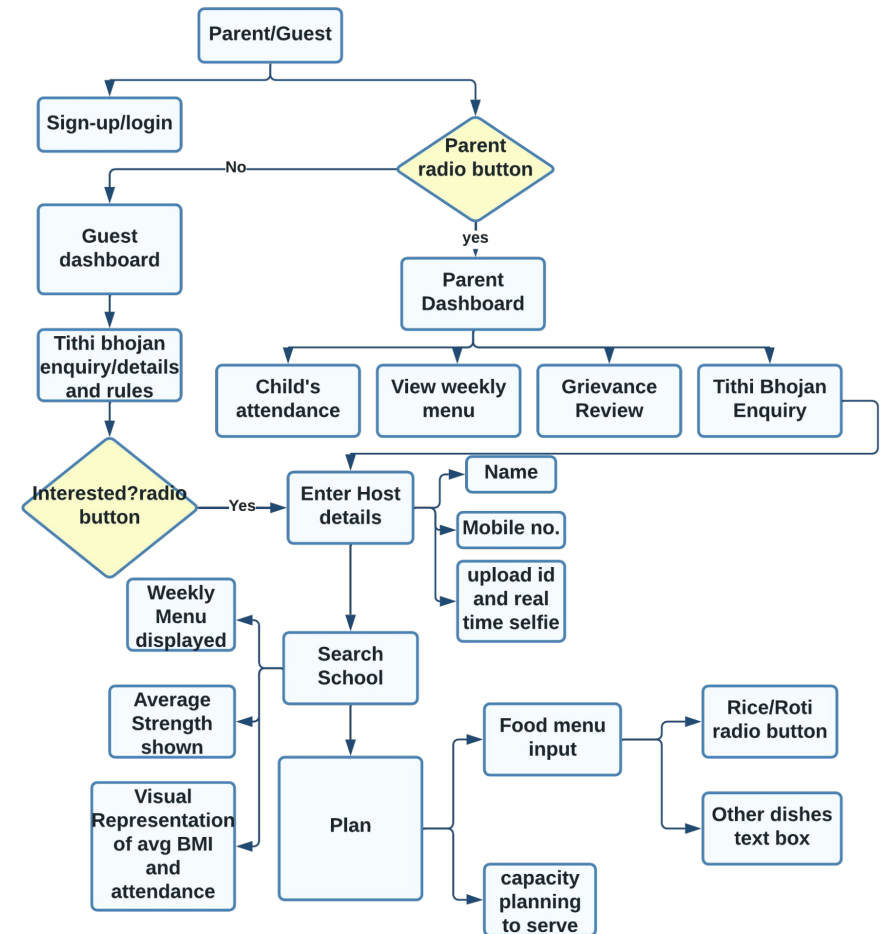
Management workflow:



## Volunteer workflow:



## Guest/Parent Workflow:



# Team Member Details

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**Team Leader Name:** Bhavyashu Agarwal

Branch : BTech      Stream : IT      Year : II

**Team Member 1 Name:** Aditya Chintala

Branch : BTech      Stream : CSE      Year : II

**Team Member 2 Name:** D Divya

Branch : BTech      Stream : CSE      Year : II

**Team Member 3 Name:** Janvi Mehta

Branch : BTech      Stream : CSE      Year : II

**Team Member 4 Name:** Syed Shujauddin Rafai

Branch : BTech      Stream : CSE      Year : II

**Team Member 5 Name:** Yuktaa Sri Addanki

Branch : BTech      Stream : CSE      Year : II