Project Design Phase-II
Technology stack (Architecture and Stack)

Date	15th October 2022
Team ID	PNT2022TMID34090
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts.
Maximum Marks	4 Marks

Technical Architecture:
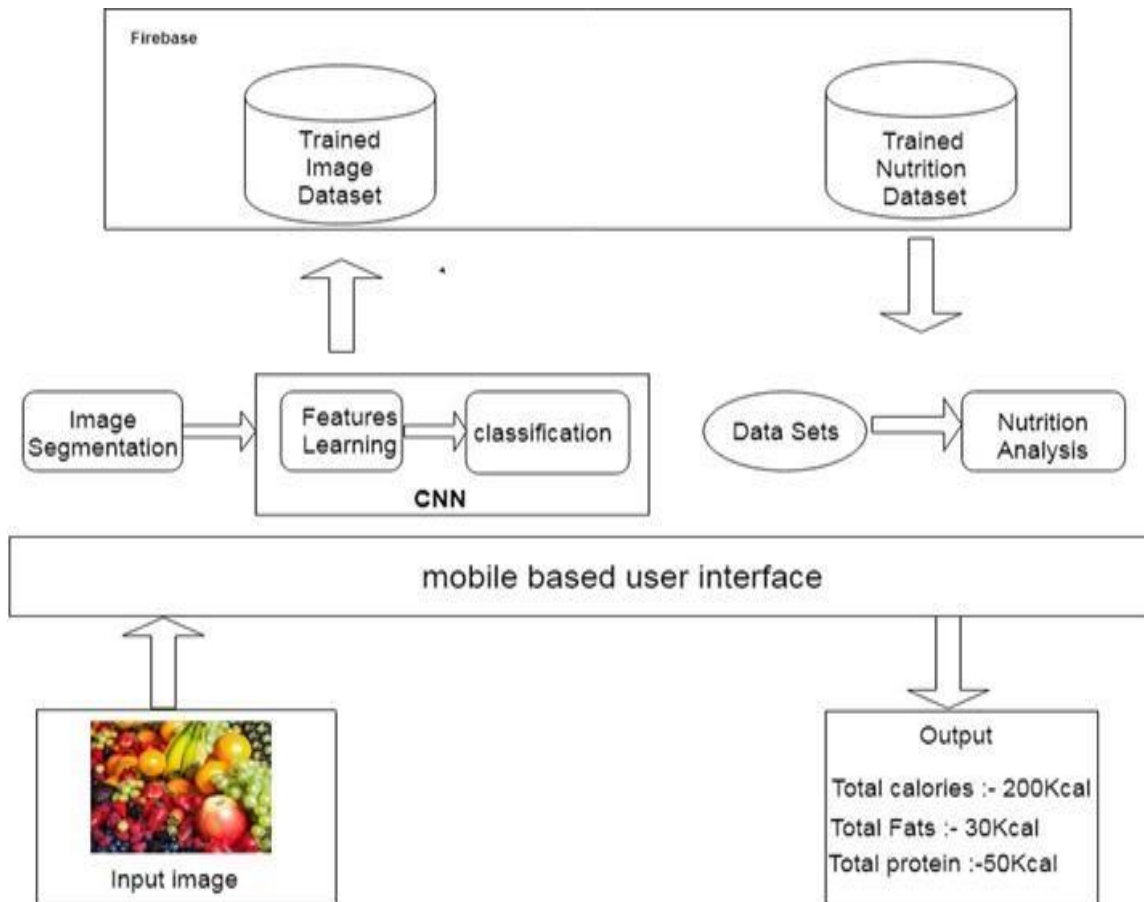
Table : Components & Technologies:

S.No	Component	Description	Technology
1.	Firebase	Firebase is a development software that provides tools for tracking analytics, reporting and fixing app crashes, creating marketing and product experiment.	C++, Java, Objective-C, Swift
2.	Image segmentation	The method in which a digital image is broken down into various subgroups called image segments which helps in reducing the complexity of the image to make further processing or analysis of the image simpler.	Python, C/C++
3.	CNN	Convolutional neural network(CNN) is a type of deep learning model for processing data that has a grid pattern, they were designed to map image data to an output variable.	Python

4.	Mobile based user interface	Mobile UI is the graphical and usually touch-sensitive display on a mobile device, that allows the user to interact with the device's apps, features, content and functions.	C++
5.	Data Sets	It is a collection of related, discrete items of related data that may be accessed individually or in combination or managed as a whole entity.	SQL