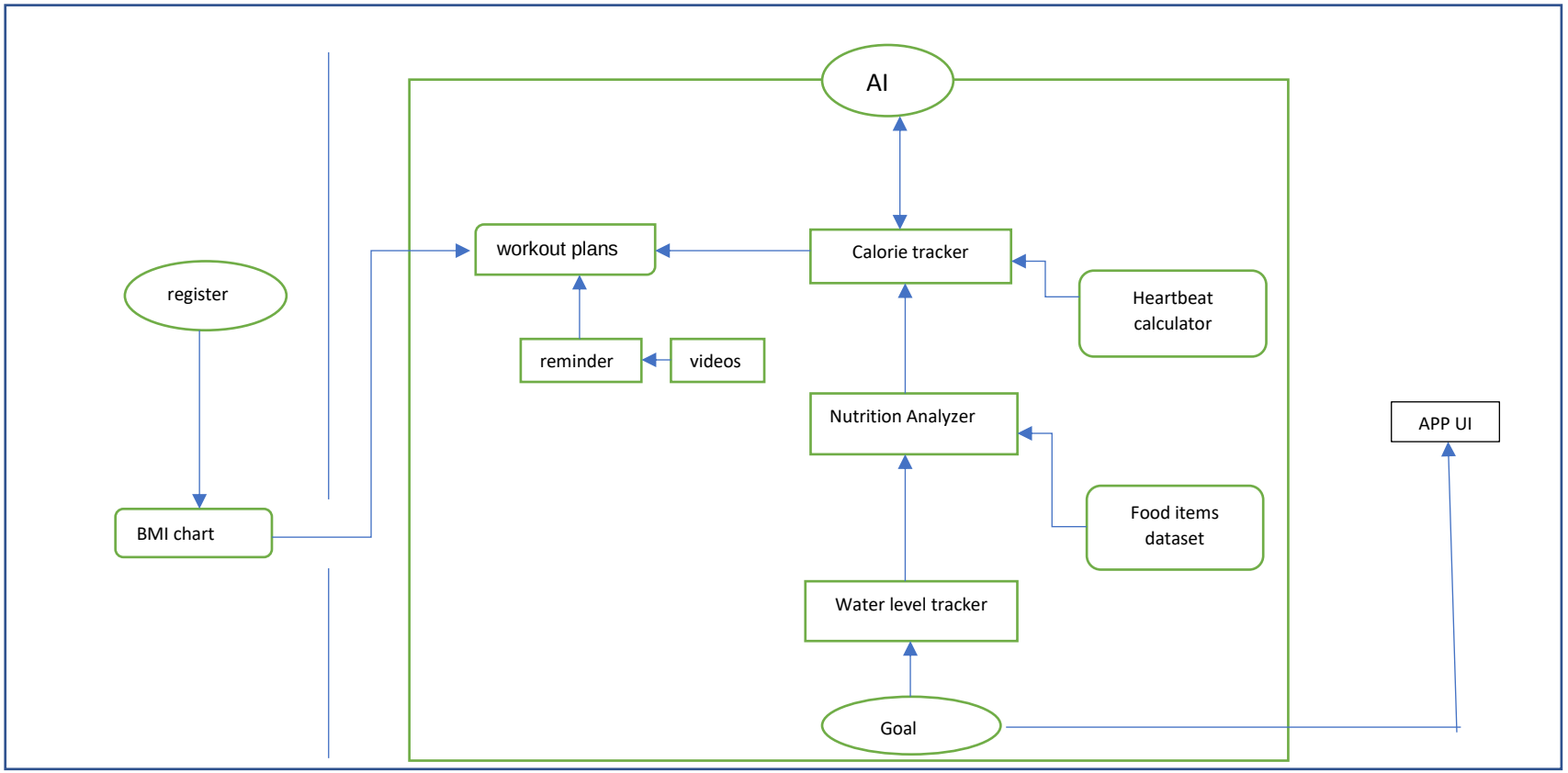
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID34115
Project Name	AI Powered Nutrition Analyzer For Fitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



S.No	Component	Description	Technology
1.	User Interface	Mobile application , desktop application	HTML, CSS, JavaScript ,CGI
2.	Application Logic-1	The application is based on the Artificial intelligence algorithm	Python
3.	Application Logic-2	The application includes the data set of images based on the image processing technology	Image Processing
4.	Application Logic-3	The application includes the wearable device integration	Bluetooth
5.	Database	Count and timer datatypes	Cloud SQl
6.	Cloud Database	Security,high quality services	IBM Cloudant
7.	File Storage	System storage less than 200mb	Local Filesystem
8.	External API-1	External applications included is an calorie trackerused to track the amount of calorie intaken by an user	Calorie counter
9.	External API-2	External applications included is an water level manager Used to keep track of water level in user's body	Water tracker
10.	Machine Learning Model	Predictive analysis of decision making and posture correction	Object recognition
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Internet Explorer Cloud Server Configuration :IDE	Local, Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	RNN	Natural language processing
2.	Security Implementations	Cloud Security platform	Encryptions,
3.	Scalable Architecture	Very much scalabe and can be used by millions of user's simultaneously	Scalable database
S.No	**Characteristics**	**Description**	**Technology**
4.	Availability	Available in various resourcers and can be downloaded by fitness enthusiasts and fitness freaks	Python language
5.	Performance	Performance considered while designing includes lower data consumptions ,energy saving and use of cache .	HEVC standard