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

Date	17 October 2022
Team ID	PNT2022TMID11872
Project Name	AI POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS
Maximum Marks	4 Marks

**Table-1: Components & Technologies:** 

p			
r	User interacts with application for the prediction of Nutrition	Python, Java, HTML, SQLite, Android studio	
ıtabase	Data Type, Configurations and data will be stored	MySQL, JS	
oud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.	
e Storage	File storage requirements	Cloud > drive	
achine Learning Model	Purpose of Machine Learning Model	ANN, CNN, RNN	
tification	Notification will be sent from the server	SendGrid	
- -	e Storage chine Learning Model	Database Service on Cloud  Storage File storage requirements  Chine Learning Model Purpose of Machine Learning Model	

## **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology	
1.	Open-Source Frameworks	Open-source frameworks used	SendGrid, Python, JQuery	
2.	Security Implementations	Request authentication using encryption	Encryptions, SSL certs	
3.	Scalable Architecture	The scalability of architecture consists of 3 tiers	Web Server – HTML, CSS ,Javascript Application Server – Python Flask Database Server – IBM Cloud	
4.	Availability	Availability is increased by loads balancers in cloud VPS	IBM Cloud hosting	
5.	Performance	The application is expected to handle up to 4000 predications per second	IBM Load Balance	

