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

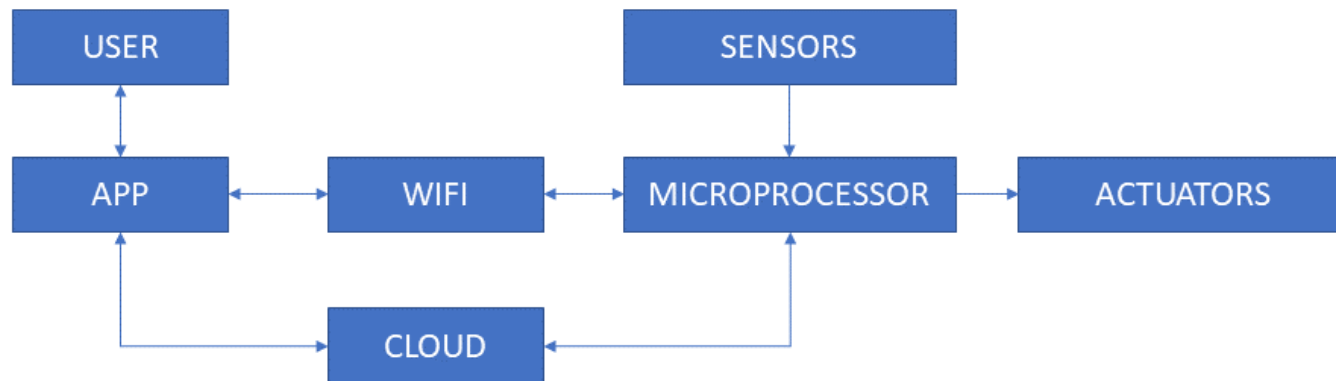| Date	03 October 2022
Team ID	PNT2022TMID14917
Project Name	Project – Smart agriculture pest detection
Maximum Marks	4 Marks

TECHNICAL ARCHITECTURE

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile App	JS, Java
2.	Application Logic-1	Logic for analysing data from microprocessor	Python
3.	Application Logic-2	Logic in microprocessor	Arduino code or python
4.	Database	Output from sensors	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2
6.	Machine Learning Model	For pest detection	CNN
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	MIT app inventor	-
2.	Security Implementations	User login, DataBase	SHA-256, Encryptions.
3.	Availability	Available on installation of system	-
4.	Performance	Frequent updates of values from sensors	WiFi