ME 420 – MECHANICAL ENGINEERING RESEARCH PROJECT

Registration number : E/17/285

Project Title : Implementing IOT & AI Based Food Quality Monitoring System

Outcomes of the project:

1. Real-time monitoring of food quality parameters such as smell, temperature, humidity, Air quality etc.
2. Early identification of potential issues and trends using AI algorithms.
3. Notification of relevant personnel when food quality parameters go outside of acceptable ranges.
4. Easy analysis of the collected data using data visualization tools.
5. Improved food quality and safety.
6. Reduce food wastage

Milestones of the project :

Project timeline tagged with the milestones:

Project timeline	Jul 31 - Aug 6	Aug 7 - Aug 13	Aug 14 – Aug 20	Aug 21 – Aug 27	Aug 28 – Sept 3	Sept 4 – Sept 10	Sept 11 – Sept 17	Sept 18 – Sept 24	Sept 25 – Oct 1	Oct 2 – Oct 8	Oct 9 – Oct 15	Oct 16 – Oct 22	Oct 23 – Oct 29	Oct 30 – Nov 5	Nov 6 – Nov 12	Nov 13 – Nov 19
Check how work the selected sensors																
Design the sensor and test																
Finalize the designing part of sensor and test the senser for selected food																
Collect the data from the developed sensor																
Compare the data with available data in the internet																
Develop AI algorithm to predict food quality																
Create a web application to monitor the quality of food																
	Jul 31 - Aug 6	Aug 7 - Aug 13	Aug 14 – Aug 20	Aug 21 – Aug 27	Aug 28 – Sept 3	Sept 4 – Sept 10	Sept 11 – Sept 17	Sept 18 – Sept 24	Sept 25 – Oct 1	Oct 2 – Oct 8	Oct 9 – Oct 15	Oct 16 – Oct 22	Oct 23 – Oct 29	Oct 30 – Nov 5	Nov 6 – Nov 12	Nov 13 – Nov 19

Date :2023/09/14

Name of the Student – RATHNAYAKA R.M.A.K. Signature of the student : ……

Comments : ……

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Name of the supervisor -Prof. D.A.A.C. RATNAWEERA Signature……