PROJECT PLANNER

Course Code: CSE-3524
Course Title: Microprocessors, Microcontrollers and Embedded Systems Lab
Project Name: Smart Dustbin for Waste Management System

Submitted To:

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Semester: 5th	

Project Title:

Smart Dustbin for Waste Management System

Key Components:

SL NO	Components Name	Quantity
1	ESP32 module	1
2	Ultrasonic Sensor(HC- SR04)	2
3	Servo Motor SG90	1
4	Breadboard With 5v Power Supply Module	1
5	Jumper Wires	Male to female 10, Male to male 8
6	Small bin	1
7	Blynk IoT App	
8	Wi-Fi Module	

Completed Tasks:

We have connected all the electrical components and completed the circuit design. We have made the Blynk Dashboard in the Blynk Web on a laptop and added some widgets to show the work of the system with the Iot. We have installed all the required extensions such as "ESP32", "Blynk", "ESP32Servo" in the Arduino IDE. Written the code in the Arduino IDE.

Project Planner:

Date	Task	Completion of System
23-06-2025	Installing Blynk App on a mobile phone and adding the existing verified account on the app.	65% Completion
26-06-2025	Adding a bin in the system and place the Sensors and Buzzer in the correct position.	75% Completion
29-06-2025	Testing the system with code and organise all components neatly on or inside the bin	85% Completion
02-06-2025	Making sure the system works correctly with all the components.	100% Completion