

IOT DRIVEN SMART WASTE BIN

“Smarter Cities Begin with Smarter Bins.”

GARBAGE BIN ISSUES

- Overflowing Waste
- Inefficient Waste Collection
- Manual Operation
- Lack of Monitoring
- No Data Collection or Analysis

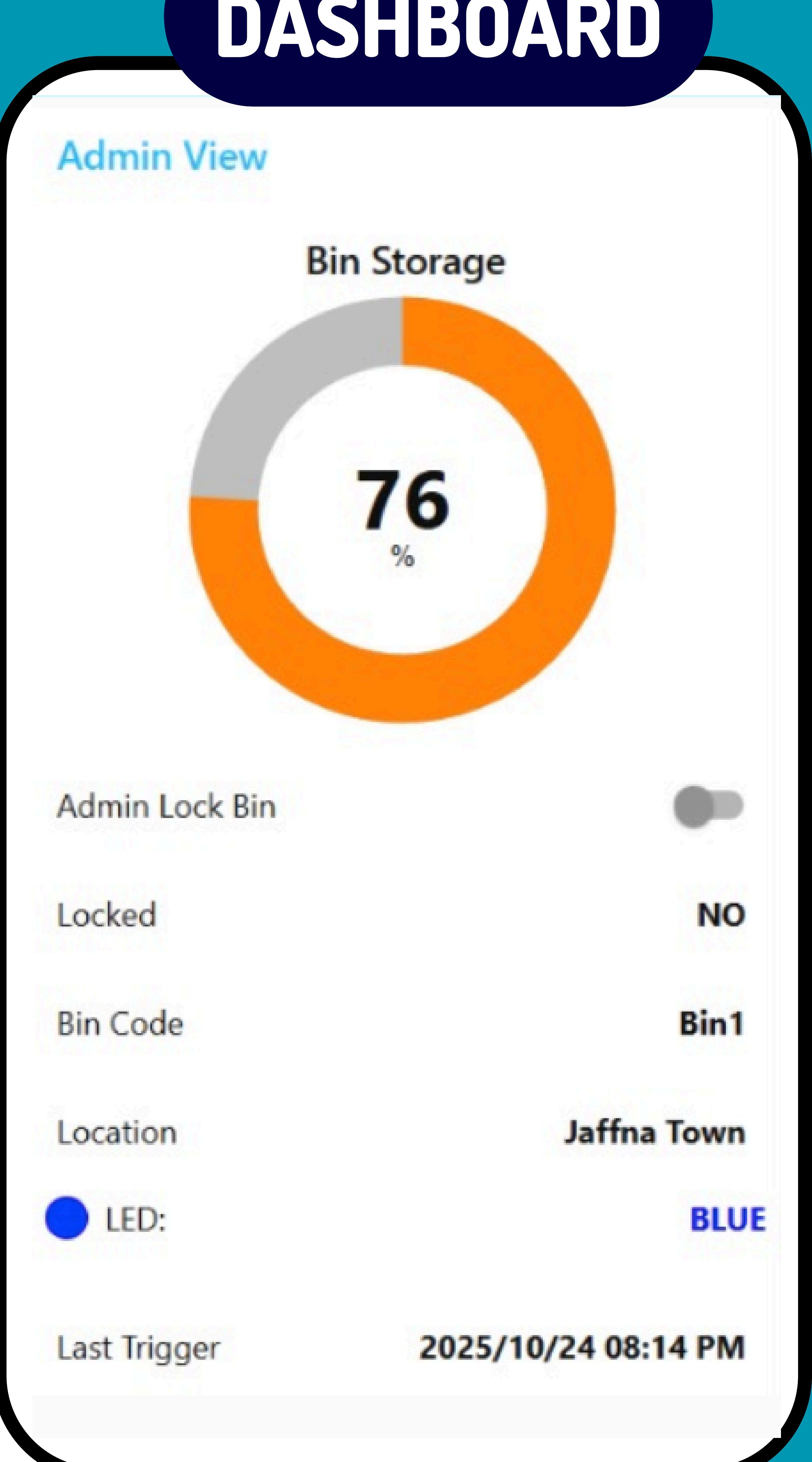


HARDWARE

- ESP32
- Ultrasonic Sensors
- Servo Motor
- LEDs (Red & Blue)
- Breadboard



DASHBOARD



KEY FUNCTIONALITIES

- Automatic Lid Control
- Smart Fill Detection
- Lock/Unlock Mechanism
- Data Logging

- Donut Display
- LED Status
- Control Panel
- Logs

TEAM MEMBERS

2022/CSC/042
2022/CSC/093

2022/CSC/033
2022/CSC/052

2022/CSC/013