Car Dashboard Project BUSINESS CASE

DATE	9/9/2024
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TITLE / ROLE	Android Framework Developer

LOGO

THE PROJECT

Develop a Car Dashboard that simulates temperature and battery health using real-time sensor data, integrating various hardware components like ADS1115 ADC, ACS712 current sensor, and a Raspberry Pi.

THE HISTORY

In modern vehicles, monitoring critical parameters like temperature and battery health in real-time is essential for safety and efficiency. A cost-effective solution that can be easily integrated into existing systems is required

Timeline and Milestones

Phase 1: Hardware Integration
Phase 2: Software Development (Drivers, GUI)
Phase 3: Testing and Validation
Phase 4: Final Deployment

APPROACH

Raspberry Pi, ADS1115 ADC, ACS712 sensor, Potentiometer, Screen

BENEFITS

Improved Monitoring:
Provides real-time data on vehicle health, enabling proactive maintenance and reducing the risk of failures.
Cost-Effective:
Utilizes readily available hardware and open-source software, minimizing development costs.
Customizable:
The system can be easily adapted for different vehicles and sensor configurations.