

DRIVE BUDDY

Smartphone Sensor-Based Vehicle
Diagnostic and Assistance Application

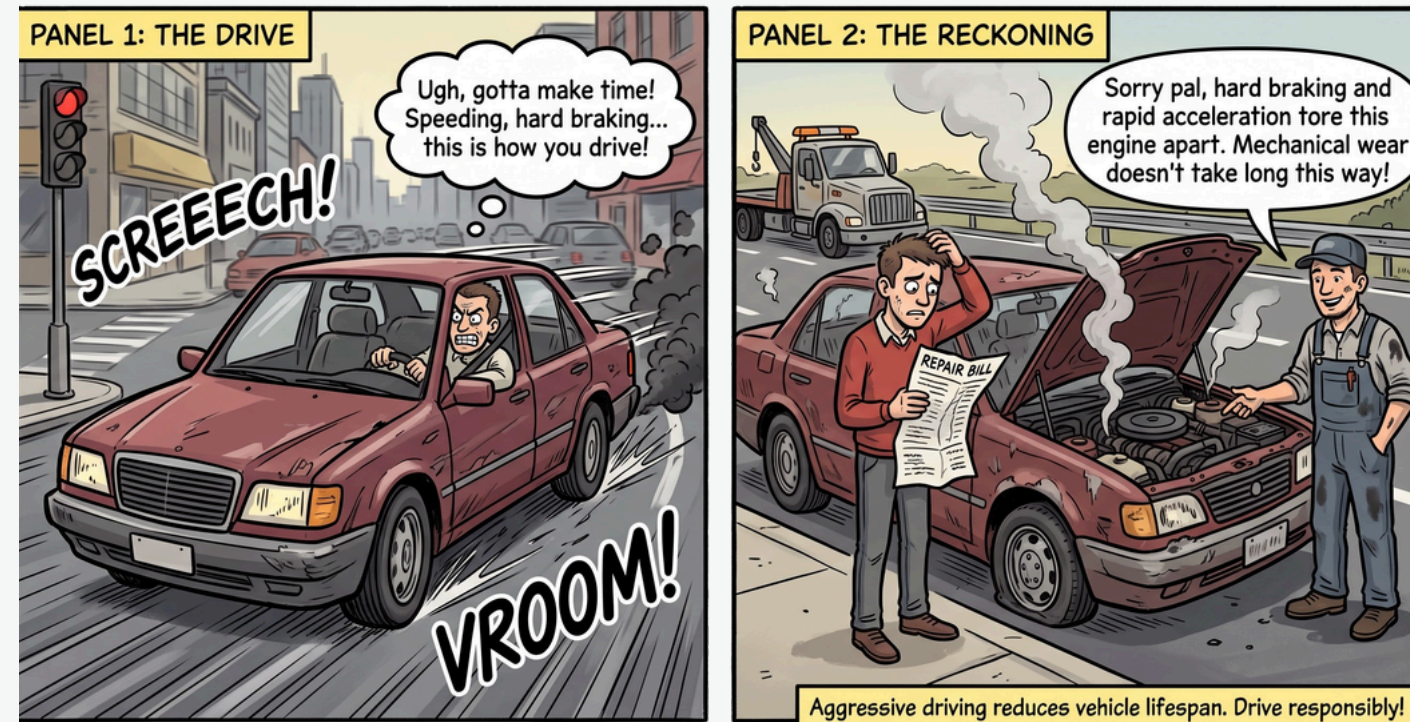
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Presented for
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THE CORE PROBLEM



Vehicle Wear



Confusing Warnings



Everyday drivers face real challenges that go unaddressed by current solutions.

Traditional OBD-II diagnostic hardware is expensive, technically complex, and inaccessible for the average driver creating a gap between vehicle health data and the people who need it most.

CREATIVE EXPLORATION & SOLUTION

Creative Exploration

Rejected Solution



Acoustic AI



OBD-II Dongle

Rejected: High processing costs made real-time audio analysis impractical.

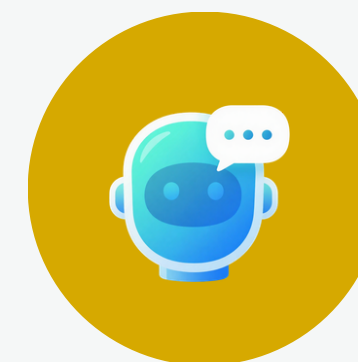
Rejected: External hardware causes user friction and added expense.

Chosen Solution



Smartphone Sensors

Chosen: GPS, accelerometer & gyroscope built into every smartphone.



AI Chatbot

Chosen: Generative AI chatbot for diagnostics with no hardware needed.

KEY FEATURES



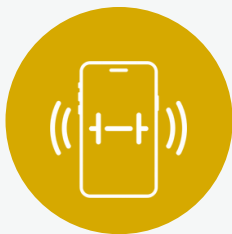
Cloud-Native

Scalable cloud architecture ensures real time data sync and reliability.



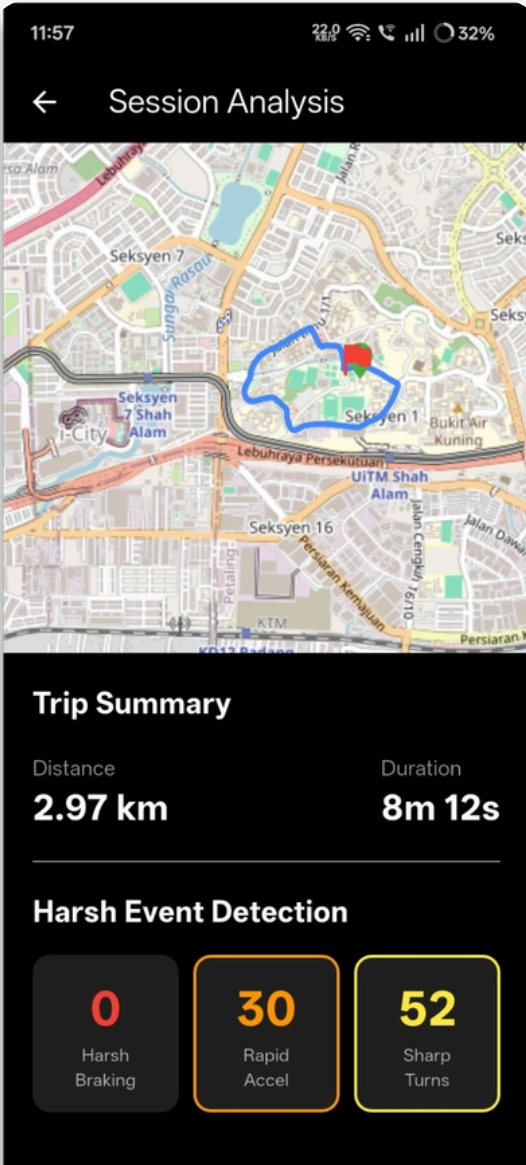
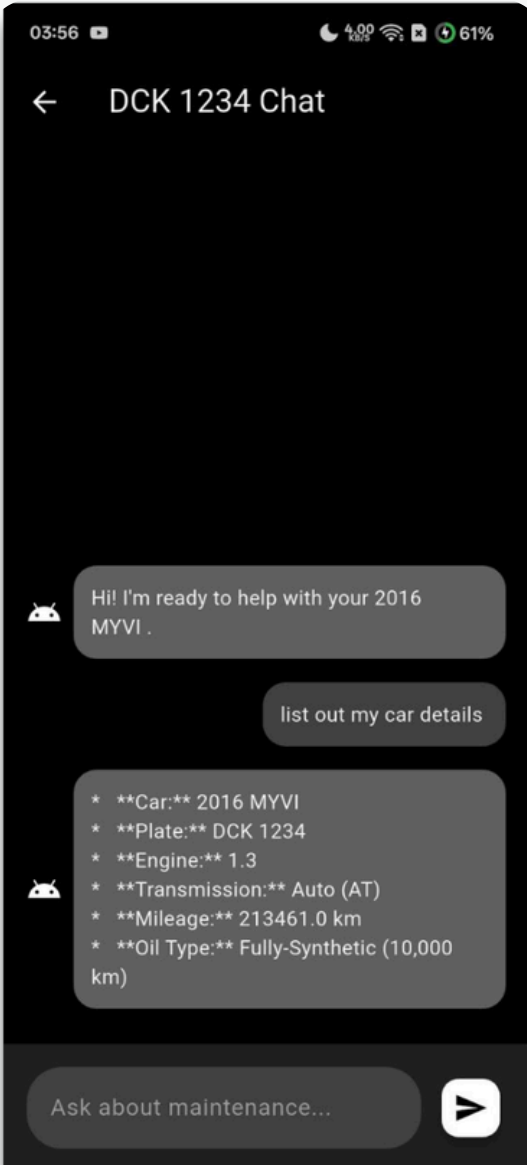
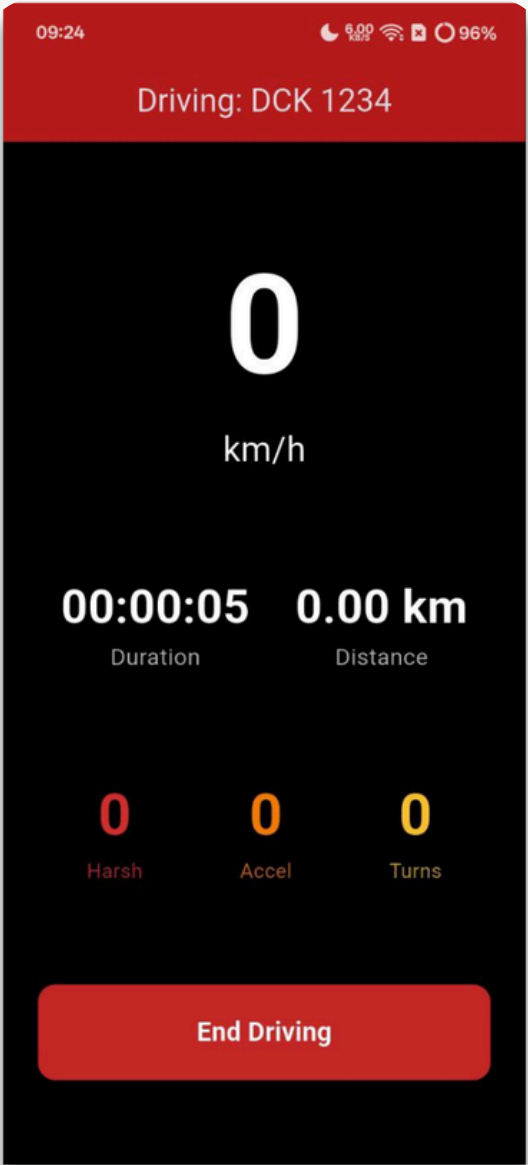
AI Diagnostics

Generative AI chatbot interprets vehicle data and guides the driver.



Sensor-Powered

Uses built-in GPS, accelerometer, and gyroscope for driving analysis.



Drive Buddy

THANK YOU!
ANY QUESTIONS?

Muhammad Hadif Bin Nazrujehan

