Group 10: SpecCheck

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Problem

- Most people don’t know much about their cars
  - Engine type, transmission, Battery
- Current car apps make it hard to find specific car info
- Takes too long to figure out the details of your car
- Can’t see live car details while outside of car
  - Tire pressure, fuel, oil and windshield fluid level.

The Solution: SpecCheck! 

- Centralized location to view all your cars and data about them
- Live view of current car data.
- Remote start and climate control all from the web app (simulated)
- AI agent that can help you understand your car better
- Easily able to check car details without having to add it to your account.
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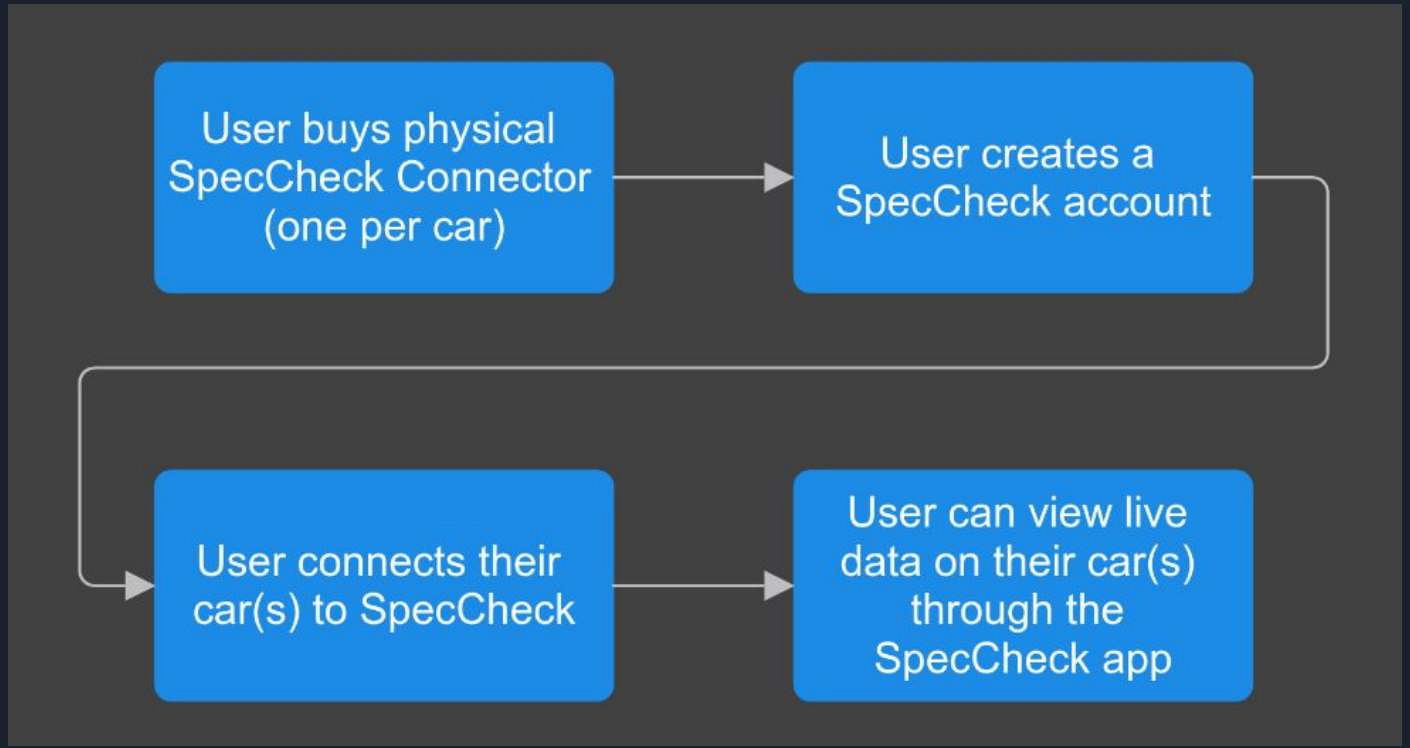
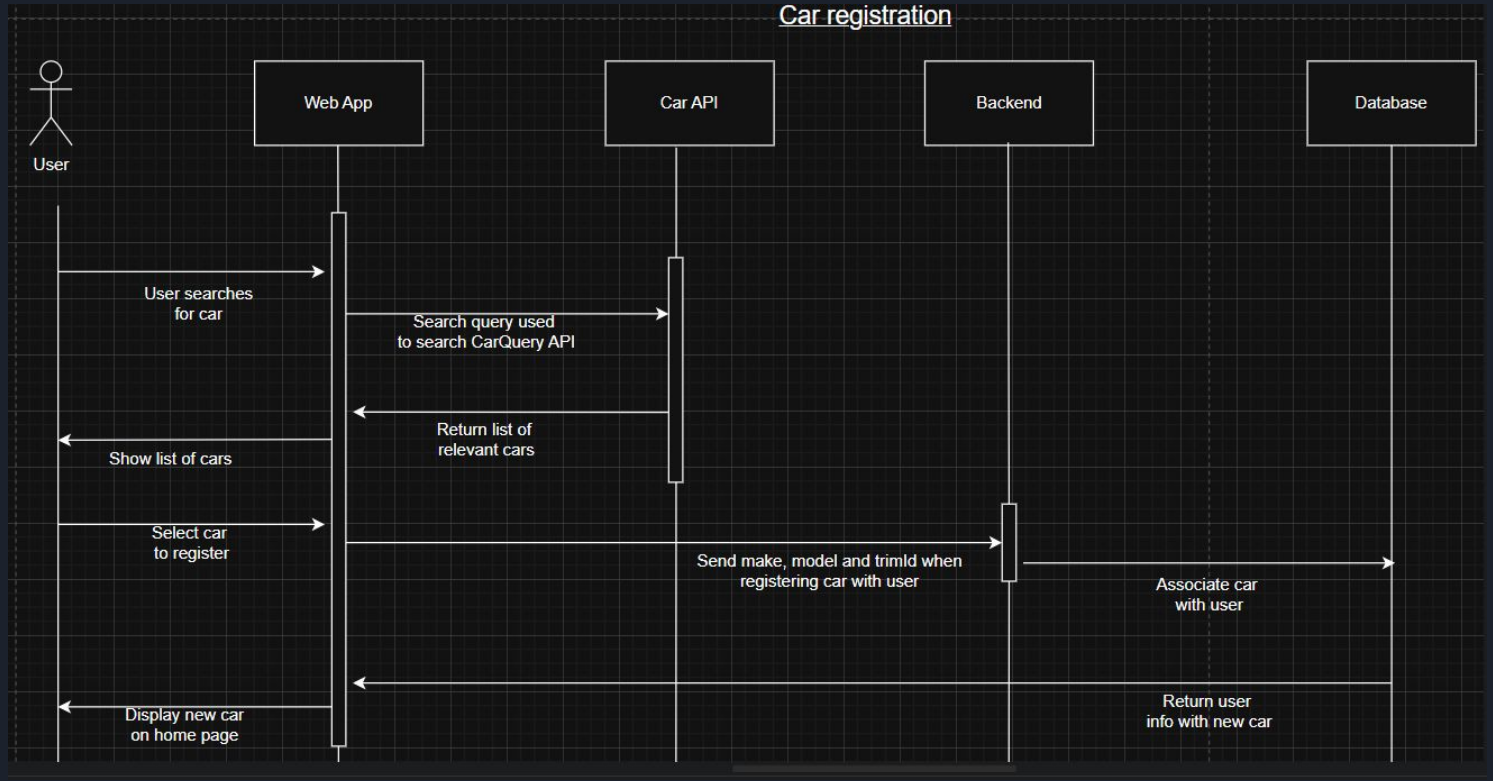
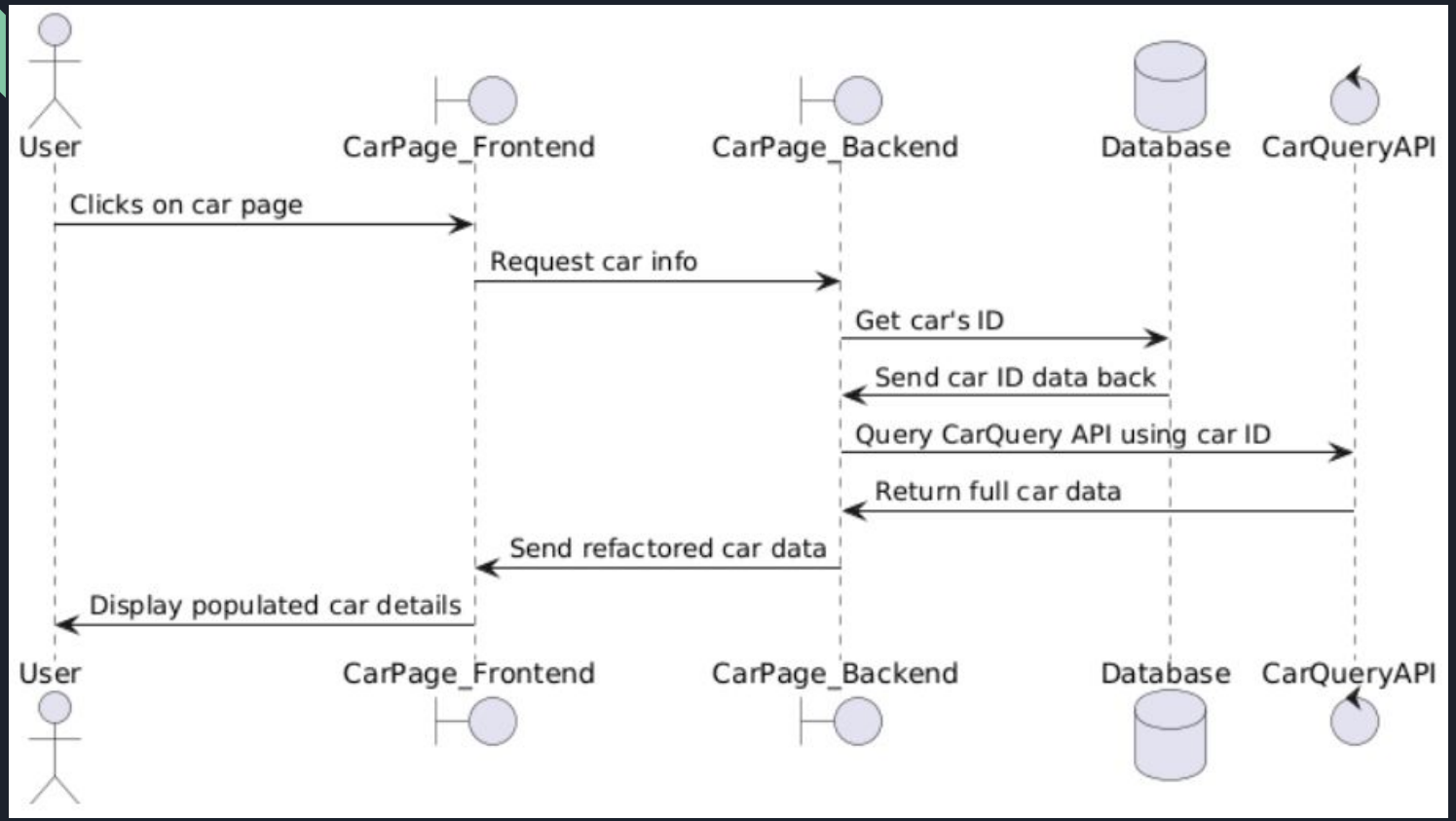
High-Level View



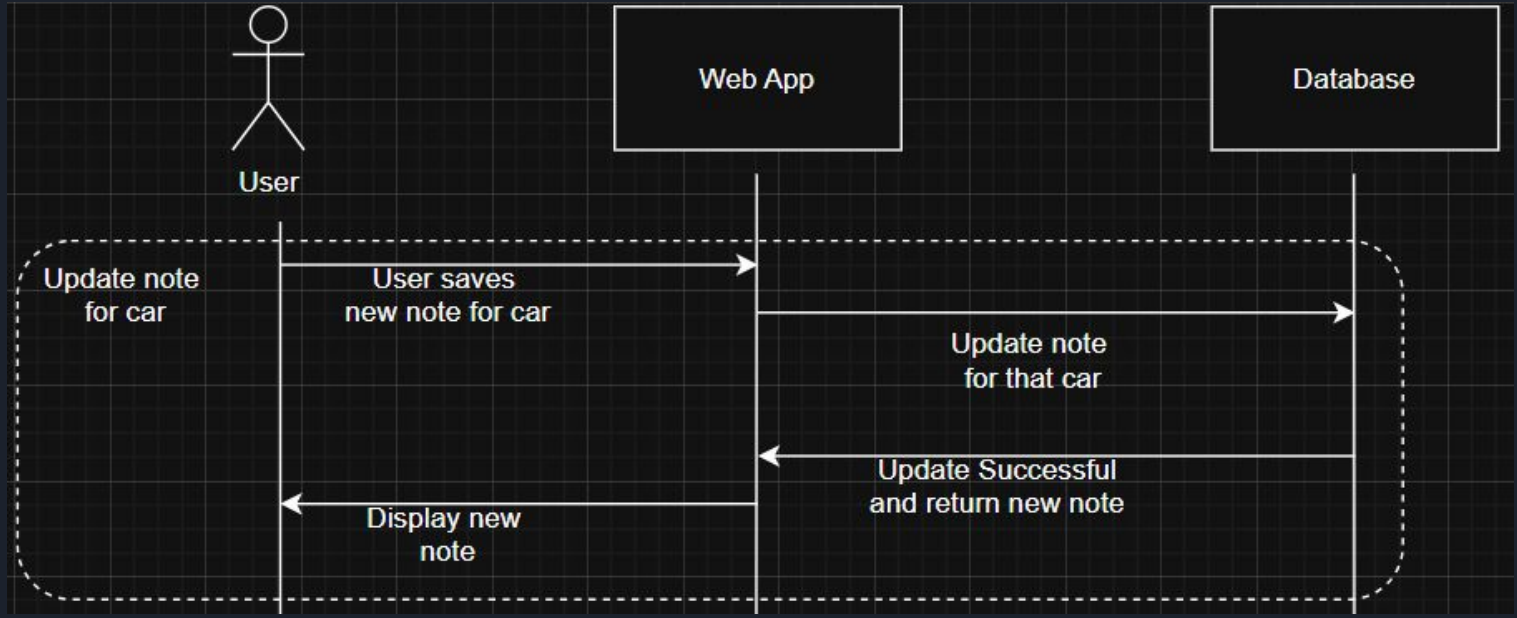
Architectural Diagrams - Car Registration



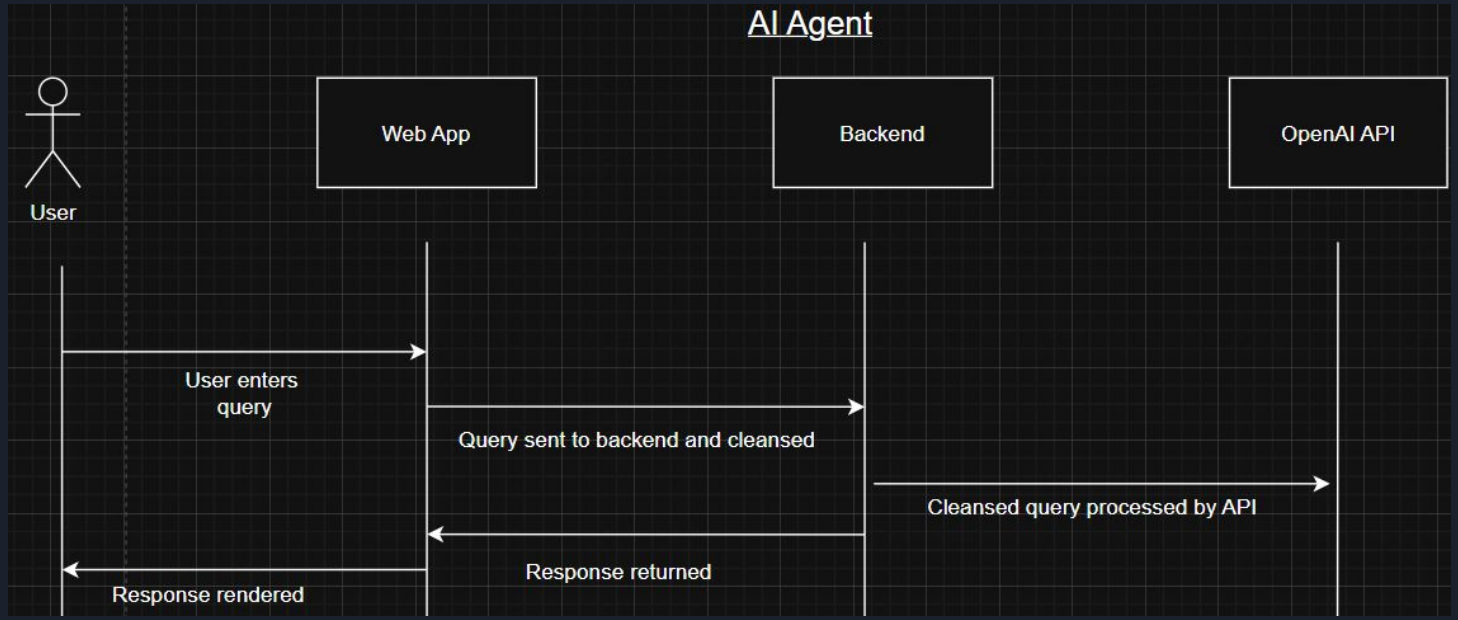
Architectural Diagrams - Car Page



Architectural Diagrams - Update note for car



Architectural Diagrams - AI Agent



DEMO!

Challenges We Faced

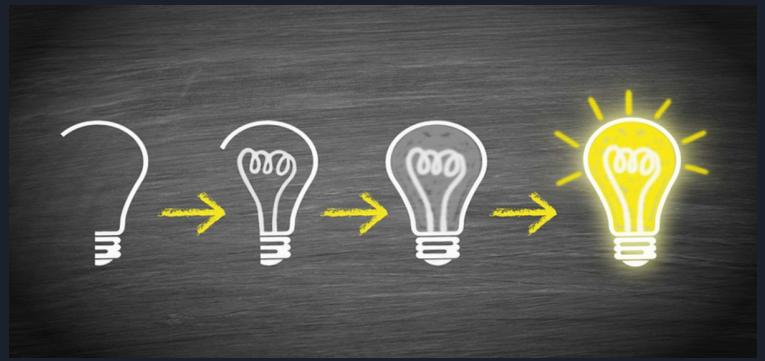
- Originally wanted to have car manuals part of app. Hard to find car manual API's that were cheap
- Difficulty to create technology needed to provide certain functionality (live tire pressure, oil level etc)
- Difficulty in custom creating an ai model for our use case

How We Overcame the Challenges

- Settled for the CarQuery API that was free to use and contained a wider variety of data
- Utilized ChatGPT and hand created prompts that would mimic the responses that were intended if we used a custom one.
- Reduced Scope to not utilize a custom made dongle that would be placed in car to read real time data

Lessons Learned

- Having weekly meetings kept everyone on track
- Creating fake deadlines helped ensure features were completed on time
- Tools like Trello simplified bookkeeping tasks
- Kept in touch outside of class time to ensure everyone was on same page



Thank you for Listening!