**CARWEBSITE**

(WEBSITE)

By

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BIT2114 PROJECT (BSSE/BSCS/BIT)

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A Technical Design Document submitted to the IUEA

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**IUEA-PROJECT SYNOPSIS**

The **Car Website** is designed to serve as a comprehensive platform for showcasing new and used cars, facilitating online transactions, and providing detailed information about vehicles (e.g., specifications, pricing, and dealership locations). Key features include:

* **Car Listings**: Display cars with filters for brand, price, and model year.
* **Virtual Showroom**: High-quality images and 360° views of vehicles.
* **Online Booking**: Users can schedule test drives or request quotes.
* **Dealer Integration**: Connect users with certified dealers.
* **Blog Section**: Articles on car maintenance, reviews, and industry news.

The website emphasizes user convenience, security, and modern design to align with Uganda’s growing digital automotive market.

**PROJECT ANALYSIS**

The Car Website addresses the need for a centralized platform to streamline car purchases and research in Uganda. It solves challenges such as:

* Fragmented information across dealerships.
* Limited access to vehicle details and comparisons.
* Time-consuming offline processes for test drives and purchases.

# BENEFITS OF THE PROJECT

1. **Centralized Information**: Users access car specifications, prices, and dealer contacts in one place.
2. **Time Efficiency**: Reduces physical visits to dealerships through online bookings.
3. **Cost Savings**: Free advertising for dealers and competitive pricing for buyers.
4. **Transparency**: Verified listings and user reviews ensure trust.
5. **Technological Advancement**: Encourages Uganda’s shift to digital solutions in th

**PROJECT DESIGN TREE**

**HOME**

**ABOUT US**

**SERVICES**

**TEAM**

**CONTACT**

**FAQ**

**CAR MODLES**

Switch to xperia

& an

**IUEA-PROJECT SCREENSHOTS**

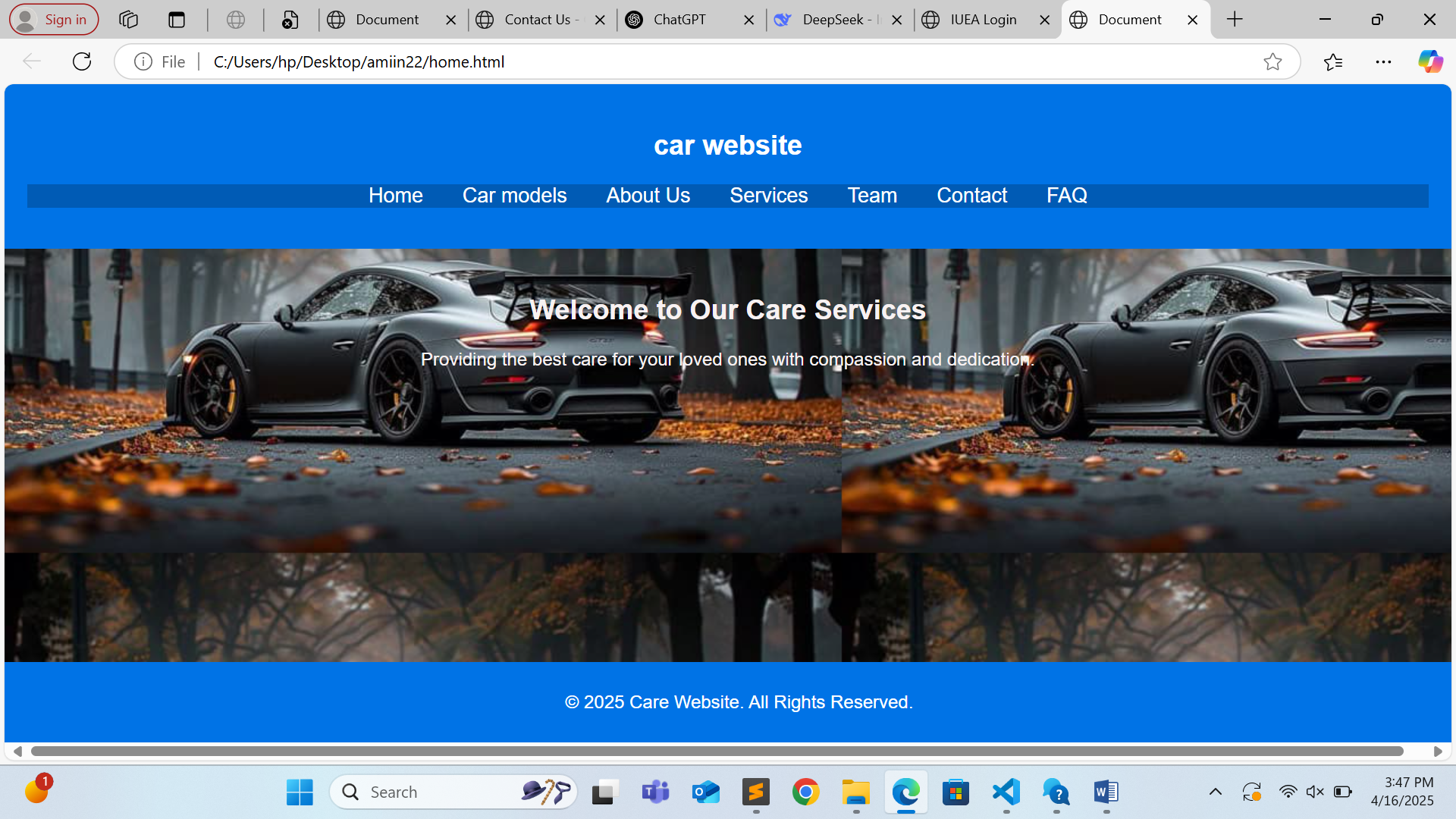
1. **UEA-PROJECT SCREENSHOTS**

*(Replace with your actual screenshots and descriptions)*

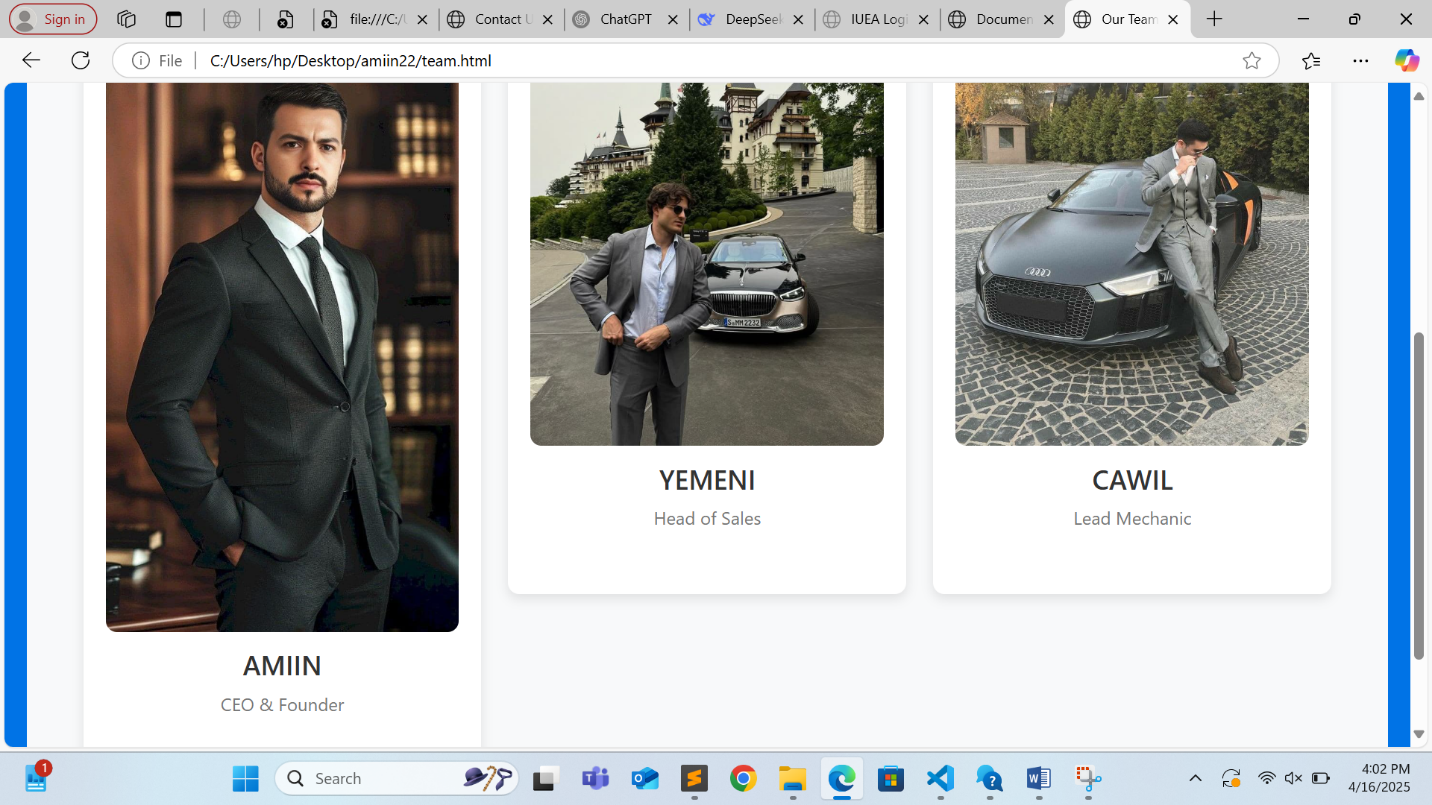
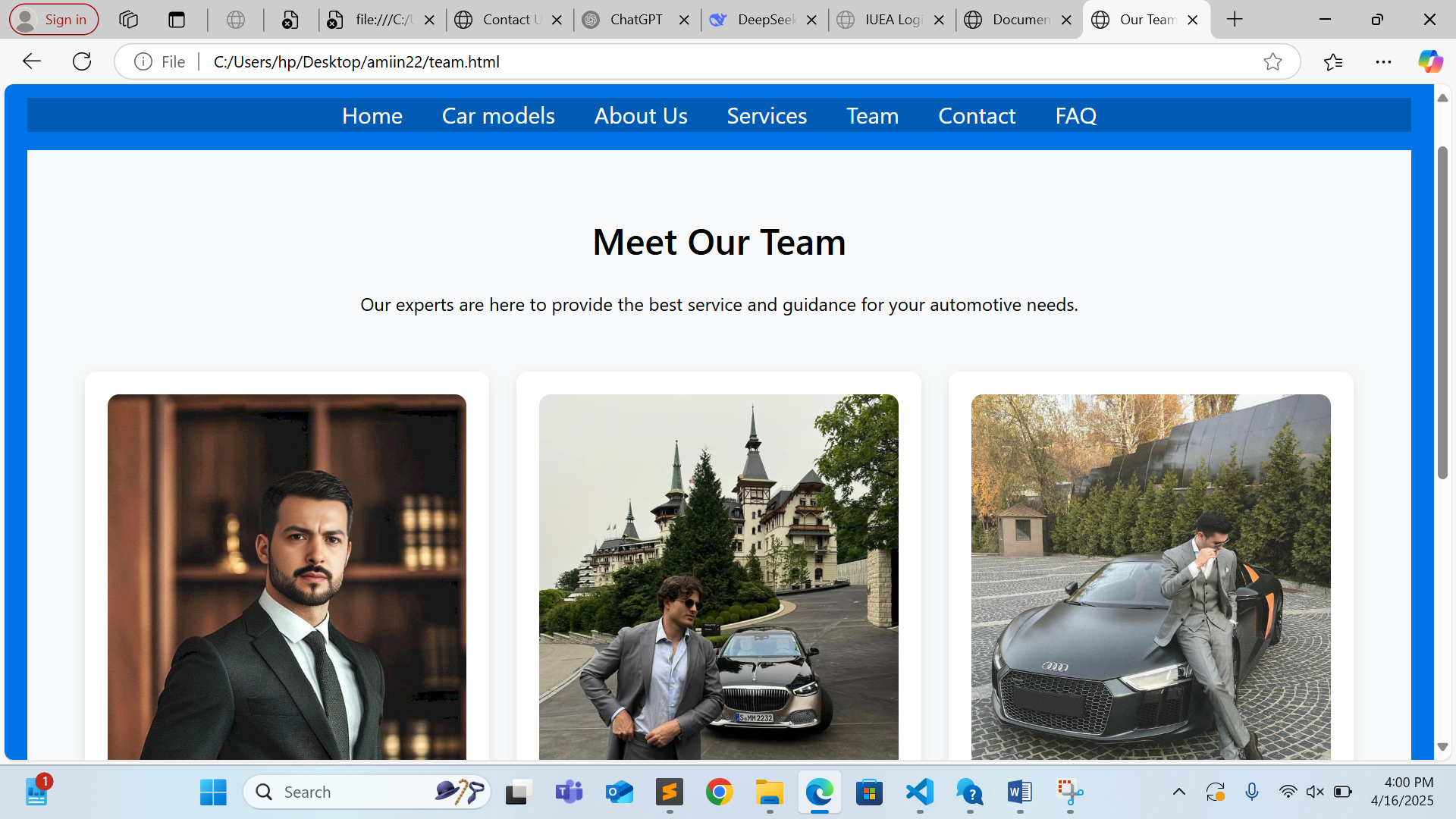
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**Car Listings Page**: Filterable grid of cars with prices and specs.

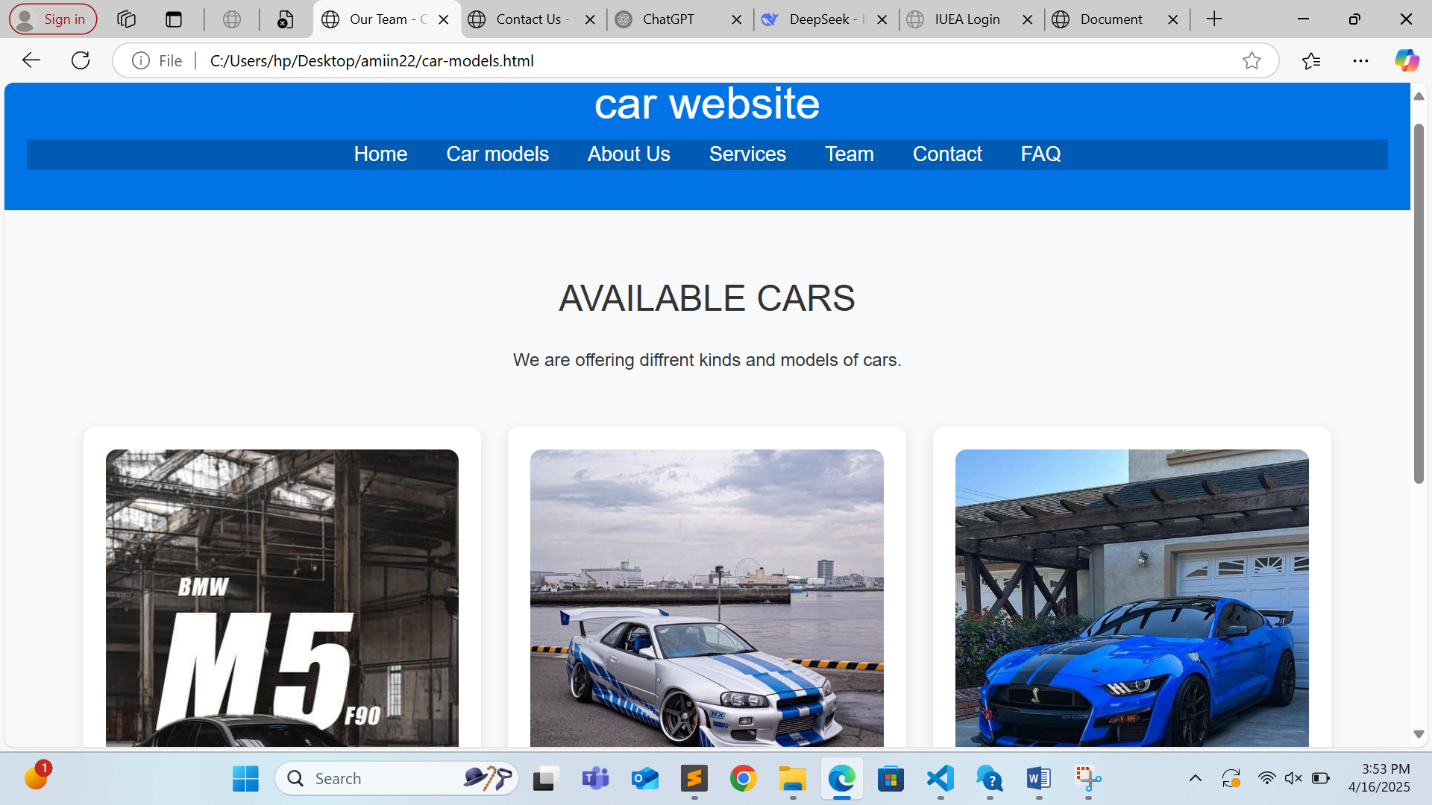
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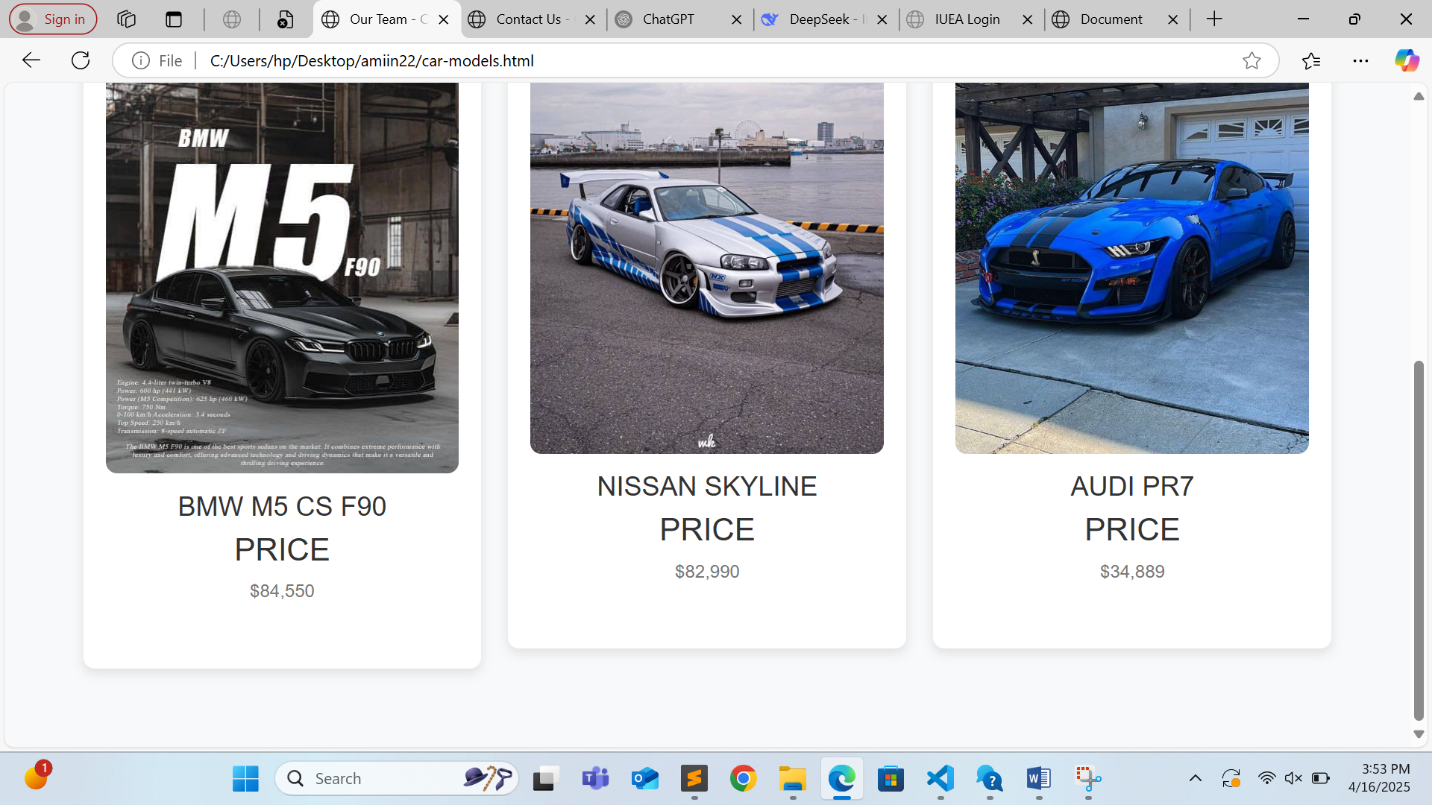


Car Listings Page: Filterable grid of cars with prices and specs.

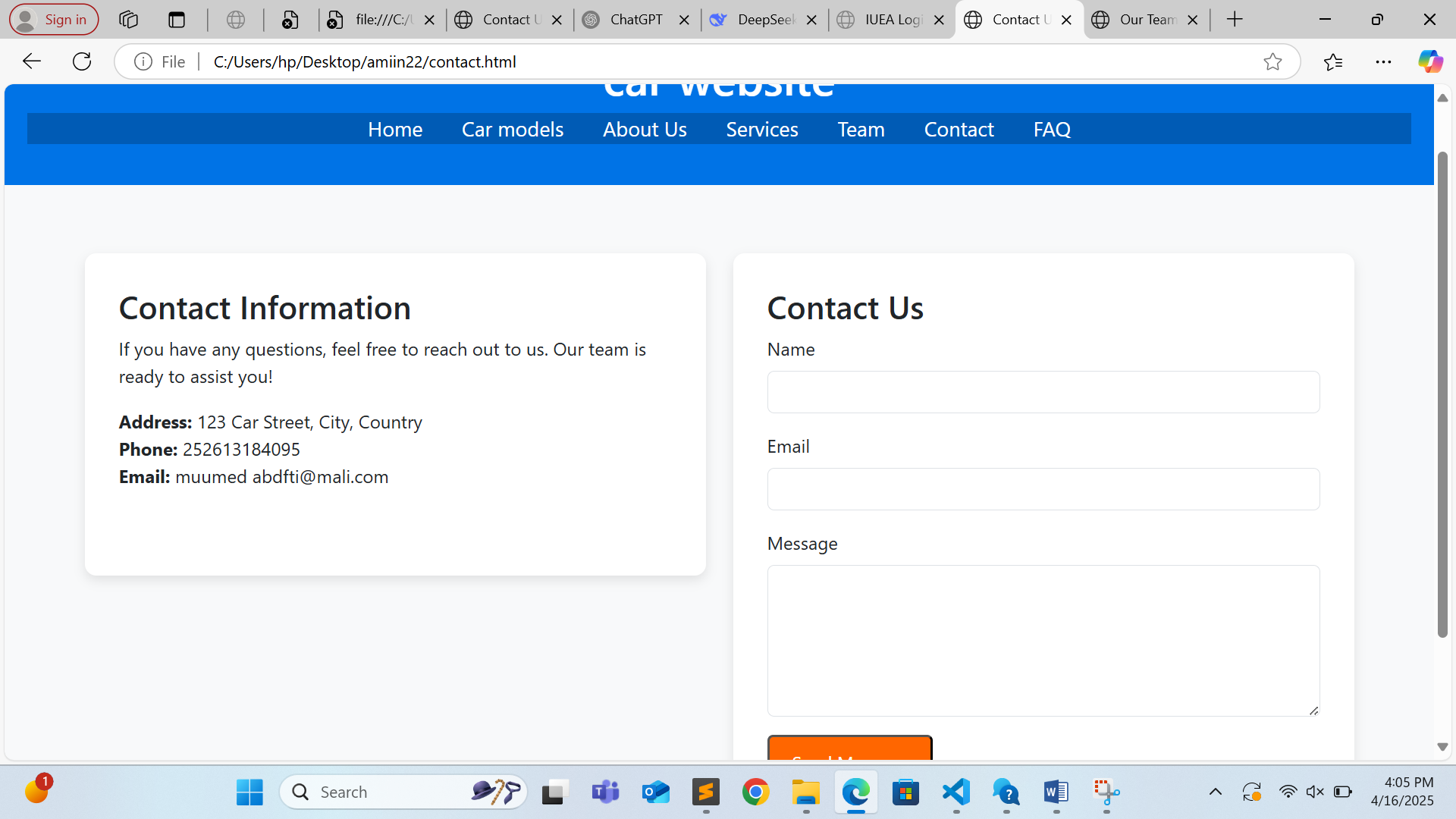


**Virtual Showroom**: Interactive 360° view of a selected car.





**Dealer Map**: Locations of certified dealers with contact details



**USER’S GUIDE**

1. **Navigation**: Use the top menu to explore car listings, virtual showrooms, or blogs.
2. **Search**: Filter cars by brand, price range, or model year.
3. **Booking**: Click “Schedule Test Drive” on a car’s details page.
4. **Dealer Contact**: Click “Contact Dealer” for instant inquiries.

**DEVELOPER’S GUIDE**

* **Frontend**: HTML5, CSS3, JavaScript (React.js for interactivity).
* **Backend**: Node.js, MongoDB (for user data and car listings).
* **Design Tools**: Figma (prototyping), Adobe Photoshop (image editing).
* **Deployment**: Hosted on AWS with SSL encryption for secu

**TASK MANAGER FOR THE IUEA-PROJECT**

|  |  |
| --- | --- |
| TASK ACCOMPLISHED | DATE |
| Designed website layout in Figma | 15/03/2025 |
| Developed frontend pages | 20/03/2025 |
| Integrated backend APIs | 25/03/2025 |
| Added car listings database | 30/03/2025 |
| Tested and deployed the website | 05/04/2025 |
|  |  |

* **CRITICAL ANALYSIS & IMPROVEMENTS**
* **Strengths**: User-friendly interface, robust search filters, secure payment gateway.
* **Limitations**: Limited dealer network outside Kampala.
* **Future Work**: Add a mobile app version and AI-based car recommendations.