IJIRCCE

e-ISSN: 2320-9801 | p-ISSN: 2320-9798

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 12, Issue 12, December 2024

INTERNATIONAL STANDARD SERIAL NUMBER INDIA

Impact Factor: 8.625

© 2024 IJIRCCE | Volume 12, Issue 12, December 2024| DOI: 10.15680/IJIRCCE.2024.1212100

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

MOTORMATE-Car Related Information

Dr. Murgesh V Jambigi[1], Mrs. Bhavana S Patil[2], Lokesh K P[3], Mahadeva Gowda[4], Pareekshith M S[5], Swaroop M Shigli[6]

Associate Professor, Dept. of CSE, Sri Taralabalu Jagadguru Institute of Technology, Ranebennur, Karnataka, India[1]

Assistant Professor, Dept. of CSE, Sri Taralabalu Jagadguru Institute of Technology, Ranebennur, Karnataka, India[2]

UG Student, Dept. of CSE, Sri Taralabalu Jagadguru Institute of Technology, Ranebennur, Karnataka, India[3,4,5,6]

ABSTRACT: The Car Partner Management System is a Python-based software application developed to optimize the management processes of car dealerships. This project leverages the Django framework to create a comprehensive platform that streamlines tasks such as vehicle inventory management, customer interaction, sales tracking, and service record maintenance. By automating these processes, the system reduces manual errors, enhances operational efficiency, and improves customer satisfaction. The platform includes two distinct panels: an admin panel for managing inventory, customer data, and sales transactions, and a customer panel for browsing and filtering new and used vehicles, submitting inquiries, and completing purchases. Users can search for vehicles by specific attributes such as model, year, and price range, ensuring a tailored shopping experience. This system is designed to cater to dealerships of varying sizes, offering flexibility and scalability. It provides a user-friendly interface and powerful backend functionality, making it an ideal solution for automating dealership operations, reducing operational costs, and boosting productivity.

KEYWORDS: Streamline Dealership Operations, Enhance Customer Experience, Improve Decision-Making, Cost-Effective Solution, Scalability and Flexibility.

I. INTRODUCTION

The Car Partner Management System is a Python-based project aimed at automating and optimizing the management processes of a car dealership. It allows car dealers to efficiently handle vehicle inventory, customer information, sales transactions, and service records, all within a centralized platform**.** The Car Partner Management System is a software application designed to streamline and manage the day-to-day operations of a car dealership. This project, implemented in Python, serves as a comprehensive solution for handling tasks such as inventory management, customer interaction, sales tracking, and maintenance services. The primary goal of the Car Partner Management System is to provide an efficient and user-friendly platform for automating manual processes, thereby reducing errors, saving time, and enhancing productivity. The system can be customized to fit the needs of small to large-scale dealerships.

This Django project for a car partner website is specifically concerned with handling both new and old vehicles. The technology also enables management of customer and vehicle records. The technology aids in tracking client inquiries. The system also shows every car specification that is offered. A customer panel and an admin panel are undoubtedly included in this project. Users can easily create an account on the website and log in. The quantity of vehicles available can be viewed and filtered by the customer. This particular website specializes in the sale of both new and used automobiles. In truth, it resembles a project for a system of selling used or pre-owned cars. Users can filter cars by model, year, and price range or search for cars by name.

II. RELATED WORK

EXISTING SYSTEM

Manual Systems:Manual processes dominate small and medium-sized car dealerships. These systems involve. Maintaining paper-based records for inventory and customer details. Using spreadsheets for basic calculations and tracking.

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

Proprietary Dealership Management Systems (DMS): Commercial DMS solutions (e.g., DealerTrack, CDK Global) are widely used in larger dealerships. These systems offer robust features like. Real-time inventory management. Integration with financial systems and customer relationship management (CRM).

Open-Source Alternatives: Some open-source projects cater to dealership management. For instance. Systems built on web-based platforms like python. Custom-built applications using languages like Ruby.

PROPOSED SYSTEM

The Car Partner Project aims to design and implement an automated system to manage the operations of car dealerships effectively. The proposed system focuses on addressing the limitations of manual and existing digital systems by leveraging Python's capabilities for simplicity, flexibility, and efficiency. The system provides modules for inventory management, sales tracking, customer relationship management (CRM), and service scheduling.

III. METHODOLOGY

Literative Development: Agile focuses on delivering working software in small, iterative cycles (called sprints), allowing you to incrementally build and improve the "Engineer Check Out System." Each sprint could focus on implementing one key functionality (e.g., cart management in the first sprint, checkout in the second, and so on).
Collaboration: Agile emphasizes continuous collaboration with stakeholders (e.g., end-users, project managers, and team members). You can regularly receive feedback on how the system is shaping up, ensuring that the final product meets the user's needs.

Flexibility in Changes: As Agile focuses on incremental development, changes can be incorporated easily in each sprint based on user feedback or evolving requirements. For instance, if you find that the checkout flow needs further optimization, it can be addressed in subsequent sprints.

Rapid Prototyping: Agile supports quick prototyping, which can be helpful for testing specific functionalities like the cart system or price calculation logic early on. This allows you to refine features based on user testing or feedback.
Continuous Testing: Agile encourages automated testing and regular integration of new code. This helps you ensure that each new feature (like adding/removing engineers from the cart) is thoroughly tested before moving on to the next feature.

IV. RESULT AND DISCUSSION

1 Signup & Login

The image appears to show a login form with fields for a username or email address, a password, and a "Remember Me" checkbox. There's an orange "Login" button, along with links for signing up or recovering a forgotten password. The form also has a close (X) button at the top-right corner

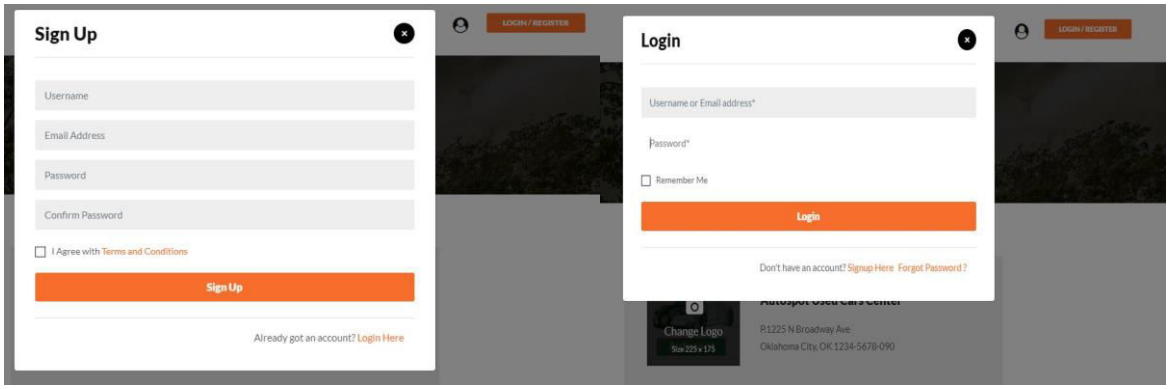

Fig: Signup and Login page

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

2 Home Page

Header:A logo labeled "Car For You". Navigation links: "Home," "Used Car," "Sell My Car," and "About Us". A "Login / Register" button.

Page Title: "Car Listing" with a breadcrumb navigation indicating "Home > Car Listing."

Search and Filter Options: A sidebar titled "Find Your Dream Car" with dropdowns for location, brand, and model selection.

Listings Section: A display of vehicles (e.g., "Mazda CX-5 SX, V6, ABS, Sunroof"). Details such as price, mileage, model year, fuel type, and engine power. Sorting options (e.g., "Price (low to high)").

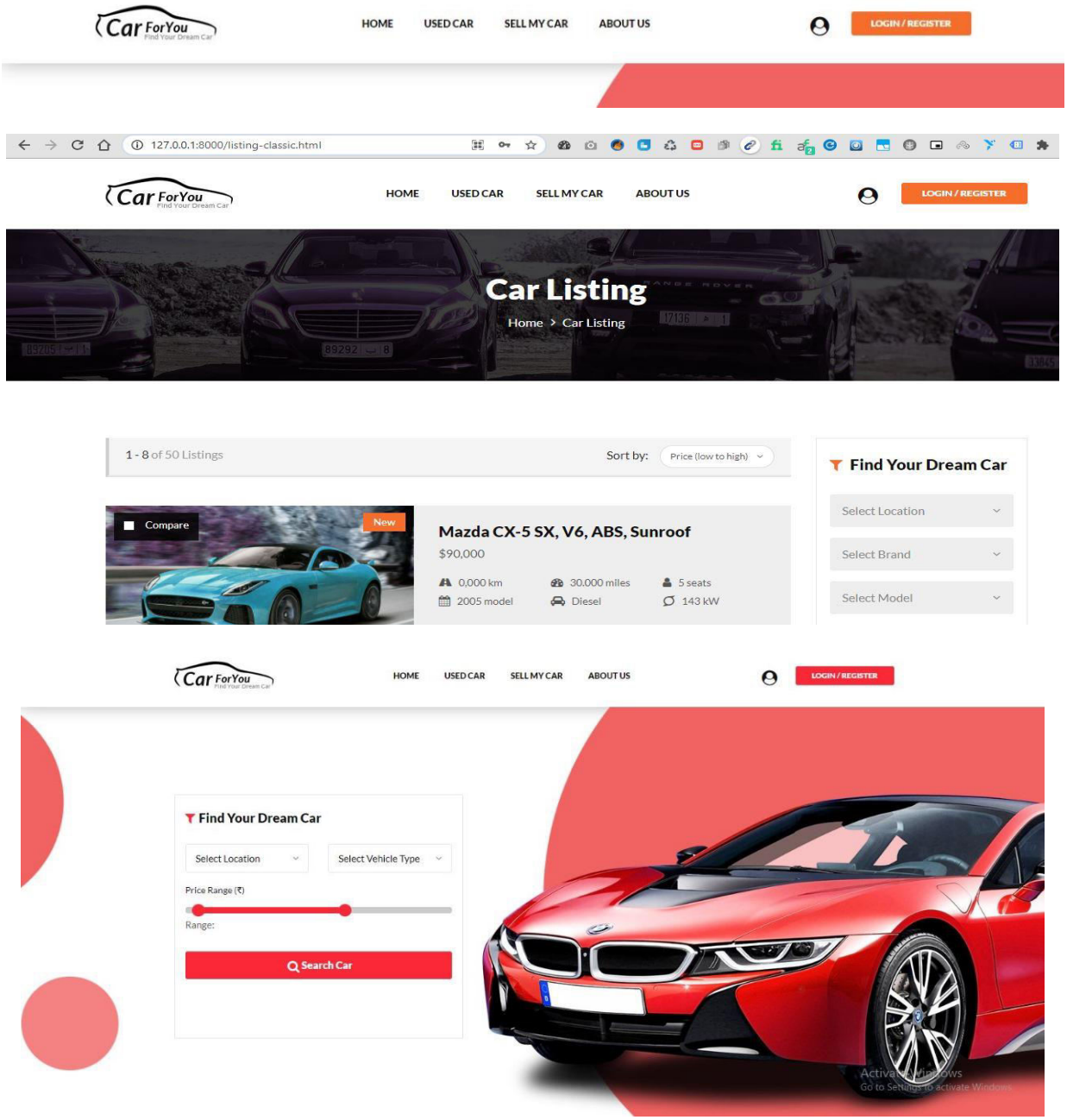

Fig: Home Page

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

3 List of Cars:

This image displays a detailed car listing page.

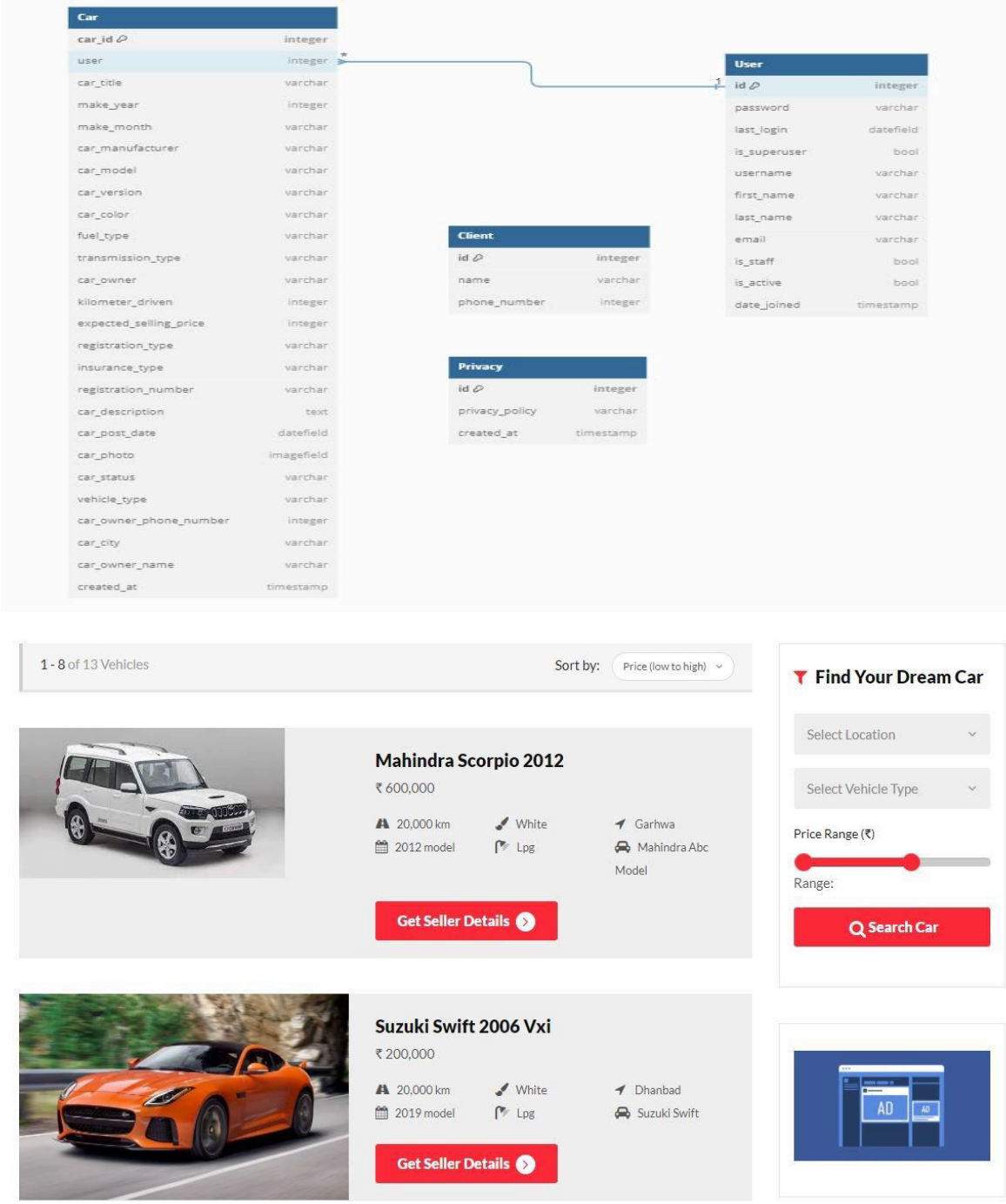

Fig: List of Cars

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

4 Customer Page

Customer Page is a user interface designed to cater to customers looking to reserve parking spots, view parking details, or manage their reservations. Below is a detailed description of what a well-designed Customer Page

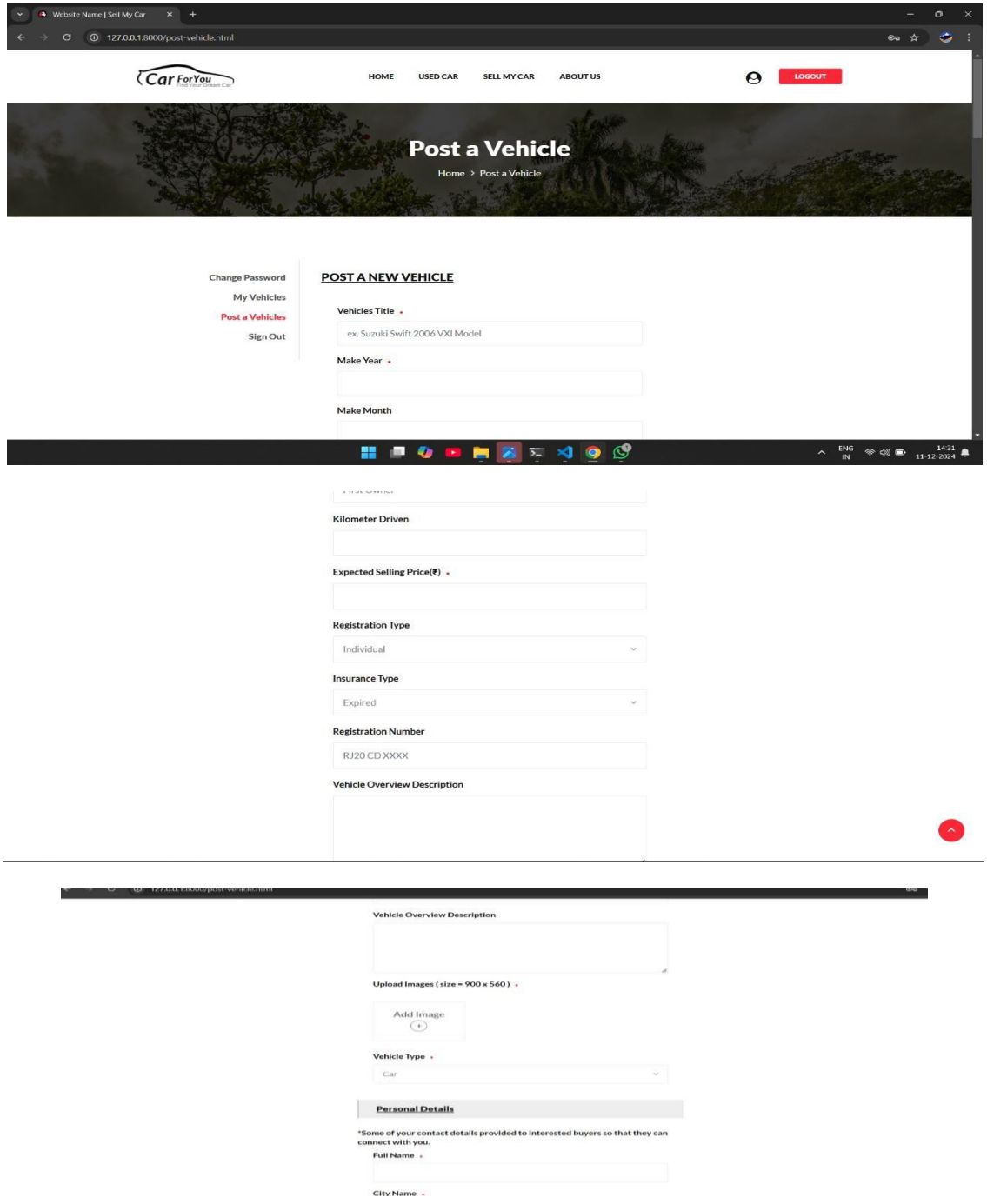

Fig: Customer Page

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

5 About Us Page:

Header Section Same as the rest of the site, with the logo and navigation menu. Optional A breadcrumb like Home > About Us to improve navigation. Hero Section (Introduction) Catchy Heading: E.g., "Revolutionizing Parking, One Spot at a Time!". Subheading: A brief overview of the mission, e.g., "Simplifying parking for everyone with easy-to-use, efficient, and secure solutions". Background Image or Video: Showcases parking spaces, happy customers, or a city skyline to set the tone.

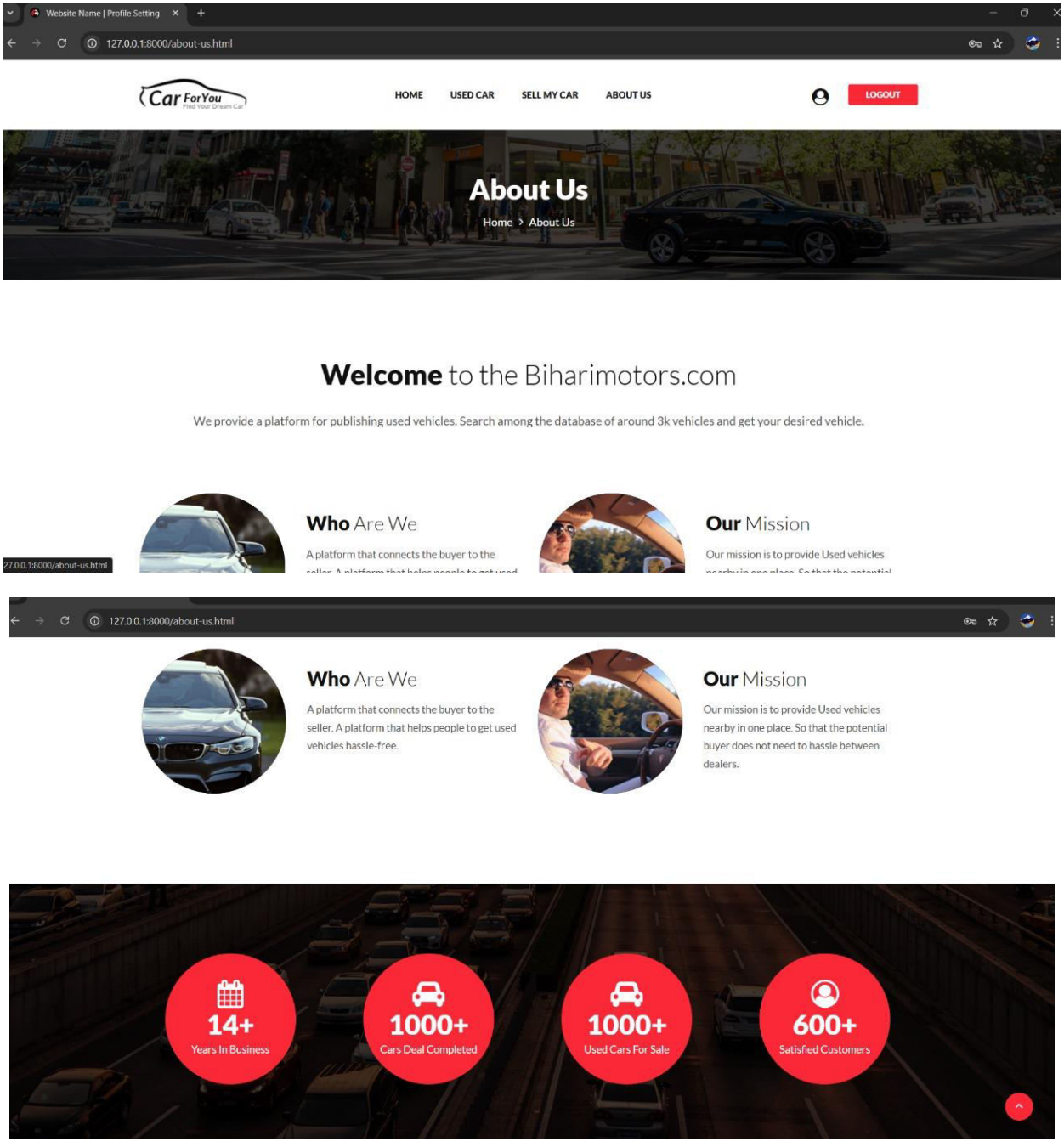

fig: About Us Page

www.ijircce.com | e-ISSN: 2320-9801, p-ISSN: 2320-9798| Impact Factor: 8.625| ESTD Year: 2013|

International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

V. CONCLUSION

The is a comprehensive solution designed to streamline the operations of car partner. By leveraging modern technologies and robust software design principles, the project successfully addresses critical dealership needs, including inventory management, customer relationship management, sales tracking, and service scheduling. This Django project for a car partner website is specifically concerned with handling both new and old vehicles. The technology also enables management of customer and vehicle records. The technology aids in tracking client inquiries. The system also shows every car specification that is offered. A customer panel and an admin panel are undoubtedly included in this project. Users can easily create an account on the website and log in. The quantity of vehicles available can be viewed and filtered by the customer. This particular website specializes in the sale of both new and used automobiles. In truth, it resembles a project for a system of selling used or pre-owned cars. Users can filter cars by model, year, and price range or search for cars by name.

REFERENCES

[1] Web Application for e-commerce Using Django Framework, Palvi, Pankaj Verma, Dr. Sunita, 2023, International Journal of Trend in Scientific Research and Development (IJTSRD).
[2] Web Application for E-Vehicle marketplace using Django, Durbhakula Sai Praneeth, Hari Sarathi M, 2021, International Journal of Advanced Research, Ideas and Innovations in Technology
[3] Car dealerships and their role in electric vehicles' market penetration-A Greek market case study, Alkiviadis Tromarasa, Aggelos Aggelakakisa, Dimitris Margaritisa, 2016, Elsevier
[4] www.google.com

INTERNATIONAL STANDARD SERIAL NUMBER INDIA

INNO SPACE SJIF Scientific Journal Impact Factor

doi crossref

निस्केयर NISCAIR

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

9940 572 462 6381 907 438 ijircce@gmail.com

www.ijircce.com

Scan to save the contact details