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Anjumanabad Bhatkal(U.K) - 581 320
(Affiliated to Karnataka University, Karnataka)

Department of Bachelors of Computer Applications (BCA)

Submitted in partial fulfilment of the requirement for the
award of Degree of BCA

Project Report on

CAR CRAFT

Submitted by

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Under the Guidance of

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2022-23

Declaration

We hereby declare that the project report titled **“Car Craft”** was prepared by us during **2022-23**, under the valuable guidance and supervision of **Prof. Prakash Naik** and **Prof. D. N. Noorappanavar (Hasan)** (Lecturers at AIMCA Bhatkal), as a requirement for my Bachelor of Computer Application degree.

we affirm that this project is a manifestation of my our independent work and has not been previously submitted to any other academic institution for the purpose of obtaining any academic degree or recognition.

Signed,

Ismail Rumais, Faiyaz Gundar

Place: Bhatkal
Date: 08/02/2023

Acknowledgement

I would like to express my sincere gratitude to all those who have made this project a success. This project would not have been possible without the guidance, encouragement, and support of several people.

I would like to extend my heartfelt thanks to my project supervisor, **Prof. Prakash Naik** and **Prof. D. N. Noorappanavar(Hasan)**, for providing me with invaluable guidance and support throughout the project. Their constant encouragement and support have been a source of inspiration and motivation.

I would also like to acknowledge the support provided by my colleagues and friends, who have been a constant source of inspiration and motivation. Their support and encouragement have been instrumental in the completion of this project.

Finally, I would like to express my appreciation to my family and loved ones for their unwavering support and encouragement throughout the project.

This project is dedicated to all of them.

Ismail Rumais , Faiyaz Gundar

Abstract

The "Car Craft" project is a web-based note-taking application that allows users to create, store, copy, and share notes in the form of PDFs. The platform is built using HTML, CSS, and JavaScript and utilizes browser local storage to store notes. With its intuitive and user-friendly interface, Car Craft is easy to use and ideal for students, professionals, and anyone looking to keep track of their thoughts. The application offers a quick and convenient way to access notes from anywhere and at any time, making it a valuable tool for note-taking and collaboration.

Table of Contents

Chapter	Title	Page no.
1.	**Introduction**	01
2.	**Features**	02
3.	**System Study** • Proposed System With Objectives • Problem in Existing System • Objectives of the System • **Feasibility Studies** - Technical Feasibility - Economical Feasibility - Operational Feasibility	03-05
3.	**System Design**	06
4	**System Configurations**	07
5.	**Languages and Tools used**	08-12
6	**Database design**	13
4.	**System UI** • Landing page • Playground / Notes page. • Disclaimer • Toasts on Save	14-15
5.	**System Testing** • Testing Steps • Stages in Testing Process	16
6.	**Future Enhancements**	17
6.	**Conclusion**	18
7.	**Bibiliography**	19

Introduction

CAR CRAFT is a responsive car website project built with HTML5, CSS3, and Javascript. The goal of this project is to provide a visually appealing and user-friendly experience for car enthusiasts and potential buyers. The website features a wide range of vehicles, including sports cars, SUVs, and sedans, along with detailed information about each model.

To enhance the look and feel of the website, ScrollReveal and MixitUp were used to add dynamic and interactive elements. ScrollReveal provides smooth scrolling animations, while MixitUp allows for easy sorting and filtering of vehicles based on user preferences.

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Website live at :

🔗 https://nCar Craft.netlify.app

Link to the code(Github Repository) :

🔗 https://github.com/falahh6/Car Craft-by-FalahxKaif

Features

1. **Note Creation:** The application allows users to create notes in the form of PDFs. The notes can be created with the use of a rich text editor that provides the ability to format text, insert images, and add hyperlinks.
2. **Storage:** The notes are stored using browser local storage, which allows the user to access their notes from any device with an internet connection.
3. **Sharing:** The notes can be shared with others by copying the note's URL and sending it to someone else. This makes it easy for people to collaborate on notes or to share information with others.
4. **Accessibility:** The notes can be accessed from any device with an internet connection, making it easy for users to take and store notes on the go.
5. **Minimalistic Design:** The application has a minimalistic design that focuses on the user's ease of use. The interface is clean and simple, making it easy for users to navigate the application and access their notes.
6. **Compatibility:** The application is built using HTML, CSS, and JavaScript, making it compatible with a wide range of browsers and devices.
7. **User-friendly:** The application has been designed with the user in mind, with a focus on making it as easy as possible to take and store notes. The interface is intuitive and the functionality is straightforward, making it easy for users to get started using the application.

System Study

The aim of the System Study phase is to determine whether the proposed system can be developed and implemented within the given resources and constraints. The System Study of the Car Craft includes the following stages:

Proposed System With Objectives:

CAR CRAFT is a responsive car website that offers a visually appealing and user-friendly experience for car enthusiasts and potential buyers. It features a wide range of vehicles with detailed information and is built with HTML5, CSS3, and Javascript for optimal performance on all devices.

Problems in Existing system :

The existing car websites are often outdated, difficult to navigate, and do not provide the level of detail and functionality that car enthusiasts and potential buyers require. Additionally, many existing car websites are not optimized for all devices and screen sizes, making the user experience inconsistent and frustrating for users.

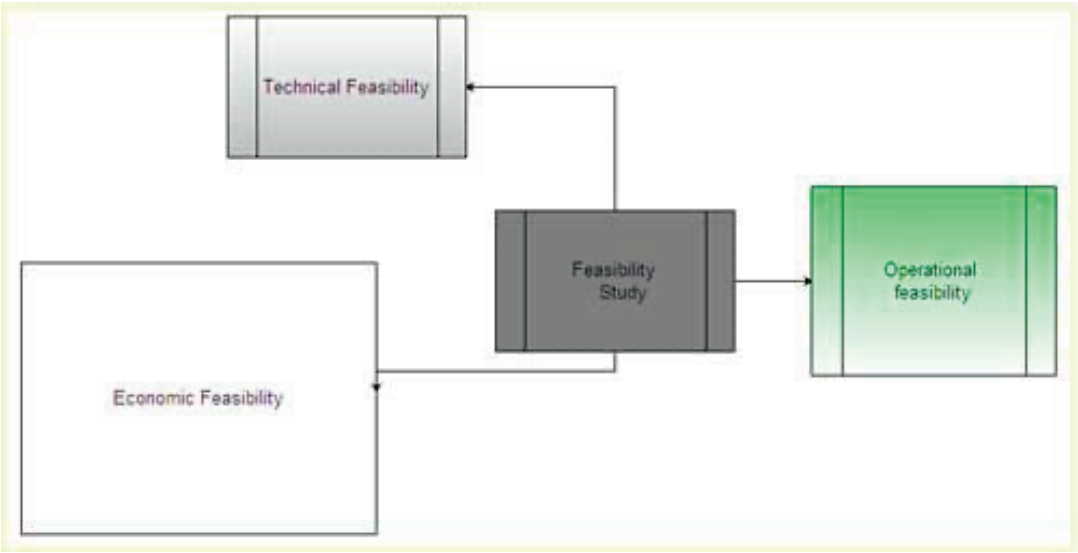
Objectives of the system :

The existing car websites are often outdated, difficult to navigate, and do not provide the level of detail and functionality that car enthusiasts and potential buyers require. Additionally, many existing car websites are not optimized for all devices and screen sizes, making the user experience inconsistent and frustrating for users.

Feasibility Studies

Conceivable plausibility ponders are conceivable to bring together all the conceivable work prerequisites to test all the fundamental assets and dangers present in the earth for the improvement of our frameworks. The likelihood for arranging progressively sorted out data will be isolated into various segments of concentrate with the goal that the reason can be reinforced and the correct methodology for the data association can be masterminded which will assist us with making choices and can be talked about.

The achievability contemplate is significant for safeguarding of possibility and organisations will almost certainly deal with the task productively for the standard contemplations that ought to be talked about for the parametric structure.



Technical Feasibility

Tools and Technologies: Evaluate the availability and compatibility of the tools and technologies needed to build the website, including HTML, CSS, JavaScript, and any required libraries or frameworks.

Hosting and Domain Requirements: Determine the hosting and domain requirements for the website, including disk space, bandwidth, and security.
Browser Compatibility: Ensure that the website is compatible with the most commonly used browsers, such as Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari.

Operational Feasibility

The operational feasibility of the CAR CRAFT website was assessed to determine the ability of the website to meet the needs of car enthusiasts and potential buyers. The website was designed to provide a visually appealing and user-friendly experience, making it accessible to a wide range of users.

Additionally, the website was optimized for all devices and screen sizes, ensuring that users can access the website from anywhere and on any device.

The operational feasibility of the CAR CRAFT website was found to be high, making it a viable solution for car enthusiasts and potential buyers.

Economic Feasibility

The economical feasibility of the CAR CRAFT website was assessed to determine the cost of development, maintenance, and operation of the website.

The cost of development was found to be reasonable, given the benefits provided by the website.

The cost of maintenance and operation was also found to be reasonable, making the CAR CRAFT website an economically feasible solution.

Sytem Configurations

Hardware

Pentium processor : 512 MHZ

RAM Capacity : 2GB

Hard Disk : 40GB

CD-ROM Drive : 32 HZ

Software

Operating system : Windows / Linux / android / mac

Platform used : Front-end development

IDE : Visual Studio code 2021

Language Used : HTML, CSS , JAVASCRIPT

Tools : Figma

Browser : Google Chrome: 89

Mozilla Firefox: 87

Microsoft Edge 91

Safari: 14.2

System Design

Systems design is the process of defining the architecture, interfaces, and data for a system that satisfies requirements. System design should satisfy specific needs of a business or organisation through a coherent, well-running system.

After you have your requirements, you examine and transform them into a physical system design that addresses the customers' needs. The design activity will vary depending on if you go for custom development, commercial solutions, or a combination of both.

Systems design requires a systematic approach to building and engineering a system. A good system design requires engineers to think about everything in an infrastructure, from the hardware/software, down to the data and how it's stored.

System design includes the following design methods:

- Architectural design: describes the views, models, behaviour, and infrastructure of a system.
- Logical design: represents the data flow and inputs/outputs of a system.
- Physical design: includes how users can add information, how a system represents information to users, and how data is modelled/stored.

Languages and Tools used

HTML

HTML (Hypertext Markup Language) is a standard markup language used for creating web pages. It provides the structure for displaying content on the internet, including text, images, videos, and links.

In the Car Craft project, HTML is used as the main structure for building the user interface of the web application. It provides the structure for the different components of the website, such as the header, navigation menu, main content area, and footer.

HTML5, the latest version of HTML, has several new features that make it easier to create more interactive and engaging web pages. Some of the key features of HTML5 include:

1. Semantic Elements: HTML5 introduces new semantic elements, such as header, footer, article, section, and nav, which make it easier to structure content and provide context to search engines.
2. Form Validation: HTML5 includes new form controls and validation features that make it easier to create forms and validate user input.
3. Video and Audio: HTML5 allows for native support for video and audio, making it easier to add media content to a web page without the need for additional plugins.
4. Canvas: The HTML5 canvas element provides a way to draw graphics on the web page using JavaScript.
5. Geolocation: HTML5 allows websites to access the user's location, which is useful for location-based applications.

CSS

CSS (Cascading Style Sheets) is an essential part of the Car Craft project. CSS is used to define the look and feel of the application, including its layout, colors, fonts, and overall visual appearance.

CSS has several features that make it a powerful tool for designing websites and applications. Some of the key features of CSS include:

1. Separation of presentation and content: CSS allows developers to separate the visual presentation of a website or application from its content, making it easier to maintain and update the appearance of the application.
2. Reusability: CSS styles can be reused across multiple pages, reducing the time and effort required to make changes to the overall appearance of the application.
3. Consistency: CSS enables developers to create consistent visual styles across all pages of a website or application, making it easier for users to navigate and interact with the application.
4. Responsiveness: CSS provides tools for making a website or application responsive, allowing it to adapt to different screen sizes and devices.
5. Accessibility: CSS can be used to enhance the accessibility of a website or application, ensuring that it is usable for users with disabilities.

JavaScript

JavaScript is an essential part of the Car Craft project. JavaScript is a programming language that is used to add interactivity and dynamic functionality to websites and applications.

In the Car Craft project, JavaScript is used to bring the application to life, enabling users to interact with the application and access its features in real-time. JavaScript provides several key features that are critical to the success of the Car Craft project, including:

1. Dynamic Functionality: JavaScript enables developers to create dynamic and interactive features, such as animations, real-time updates, and user-triggered events.
2. Interactivity: JavaScript provides tools for creating an interactive user interface, allowing users to interact with the application and access its features in real-time.

3. Validation: JavaScript can be used to validate user inputs, ensuring that the data entered by users is correct and complete before it is submitted.
4. Cross-browser Compatibility: JavaScript is supported by all major web browsers, making it an ideal choice for developing cross-browser compatible applications.
5. Speed and Performance: JavaScript is a fast and efficient language, making it well suited for creating high-performance applications.

Git & Github

Git/Github is a version control system and a web-based platform for hosting and sharing code. In the context of the Car Craft project, Git/Github can be used to manage and store the code for the application. The use of Git/Github allows for collaboration between multiple developers, tracking changes to the code, and the ability to revert back to previous versions of the code if necessary.

Some of the key features of Git/Github include:

1. Version Control: Git allows developers to keep track of all changes made to the code over time and provides a way to revert back to previous versions if needed.
2. Branching and Merging: With Git, developers can create separate branches for different features or bug fixes, and then merge these branches back into the main codebase when the work is complete.
3. Collaboration: Github provides a web-based platform for multiple developers to work on the same codebase, track changes, and communicate with each other.
4. Pull Requests: Github provides a way for developers to submit changes to the code for review and approval by other team members before merging into the main codebase.
5. History and Auditing: Git/Github allows developers to view a complete history of all changes made to the code, making it easier to track down bugs and understand how the code evolved over time.

NotesAPI

The NotesAPI is an essential component of the Car Craft project as it provides a way for the web application to interact with the underlying data storage. The API allows the web application to create, retrieve, update, and delete notes as well as manage the user's account information.

Some of the key features of the NotesAPI include:

1. RESTful API Design: The NotesAPI follows the principles of REST (Representational State Transfer) architecture, making it simple and easy to use. This allows for the API to be easily integrated with the front-end web application and other systems.
2. Secure Data Management: The API implements robust security measures to protect user data, such as secure authentication and authorization protocols. This ensures that only authorized users have access to their notes and personal information.
3. Scalability: The NotesAPI has been designed to be scalable and can handle a large volume of requests from multiple users. This means that the system can easily grow and adapt to accommodate the increasing number of users and their data needs.
4. Versatile Data Formatting: The API supports multiple data formats, including JSON, allowing for easy integration with a variety of systems and applications.

Visual Studio Code

Visual Studio Code (VS Code) is a source code editor developed by Microsoft. It is used as an integrated development environment (IDE) for developing software applications. In the context of the "Car Craft" project, VS Code is used as the primary code editor for developing the website.

Some of the features of VS Code that make it an ideal choice for this project include:

1. IntelliSense
2. Debugging
3. Git Integration
4. Extensions
5. User-friendly interface

Database Design

No tables are required for the proposed system as the assets are stored in the code itself.

Table Design

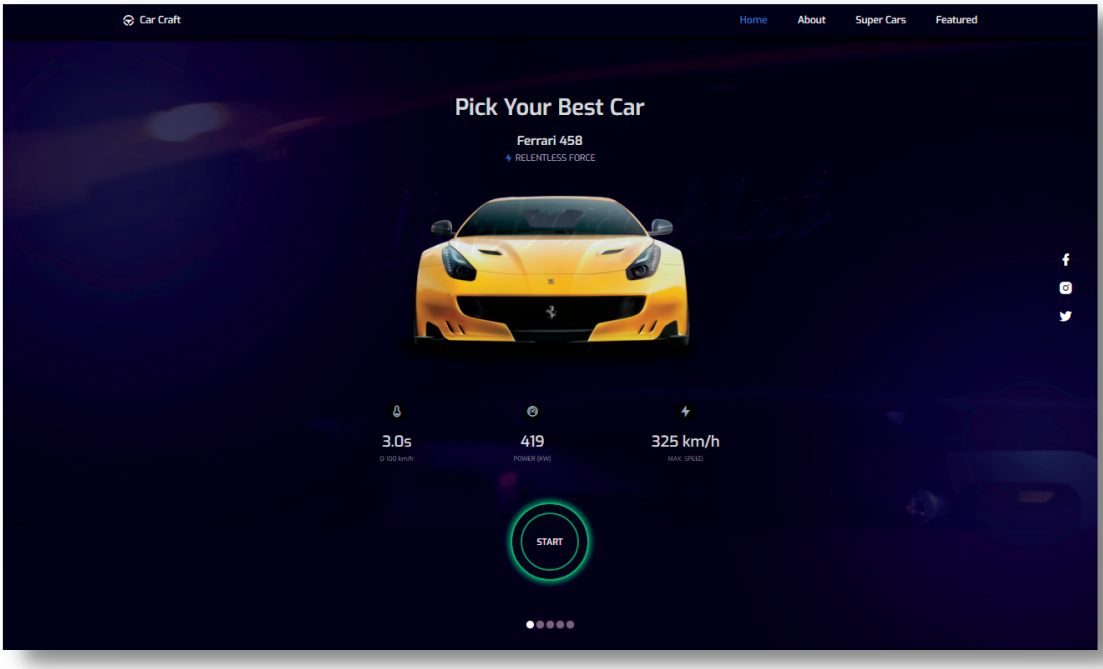
No tables are required for the proposed system.

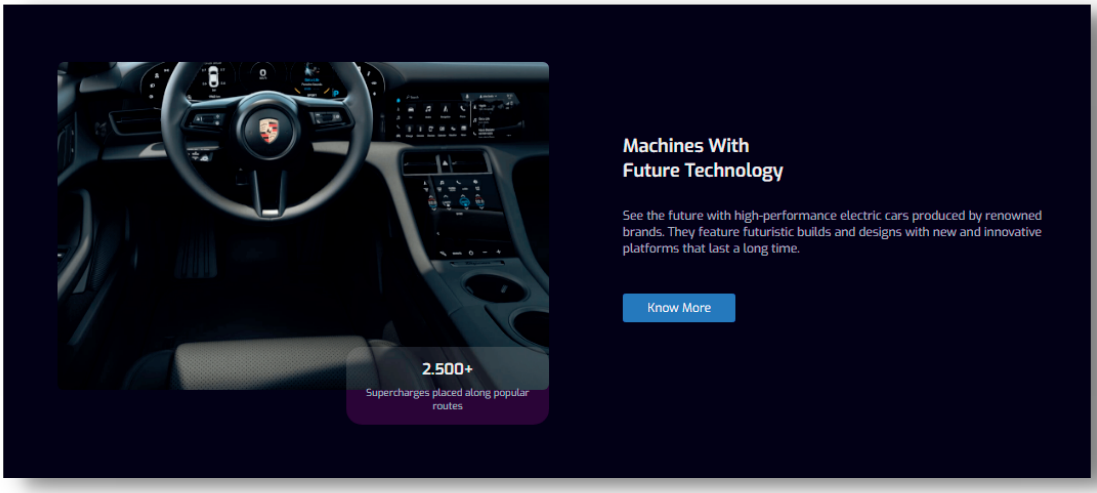
Screen Design

The proposed system consists of one page: the landing page.

The landing page provides users with a brief overview of the website and its features.

System UI


Car Craft
Home
About
Super Cars
Featured
Pick Your Best Car
Ferrari 458
RELENTLESS FORCE
3.0s
419
325 km/h
START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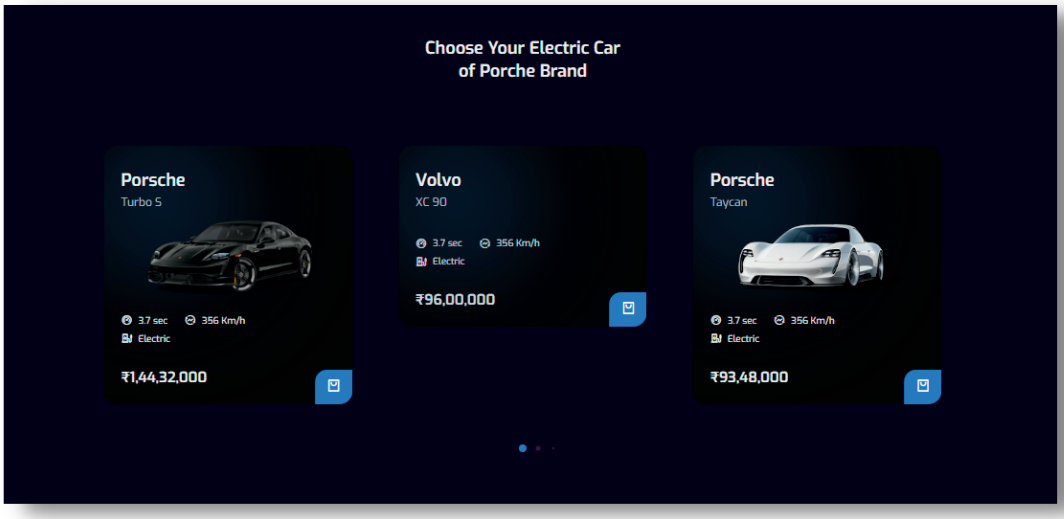
Choose Your Electric Car
of Porche Brand
Porsche
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356 Km/h
Electric
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Volvo
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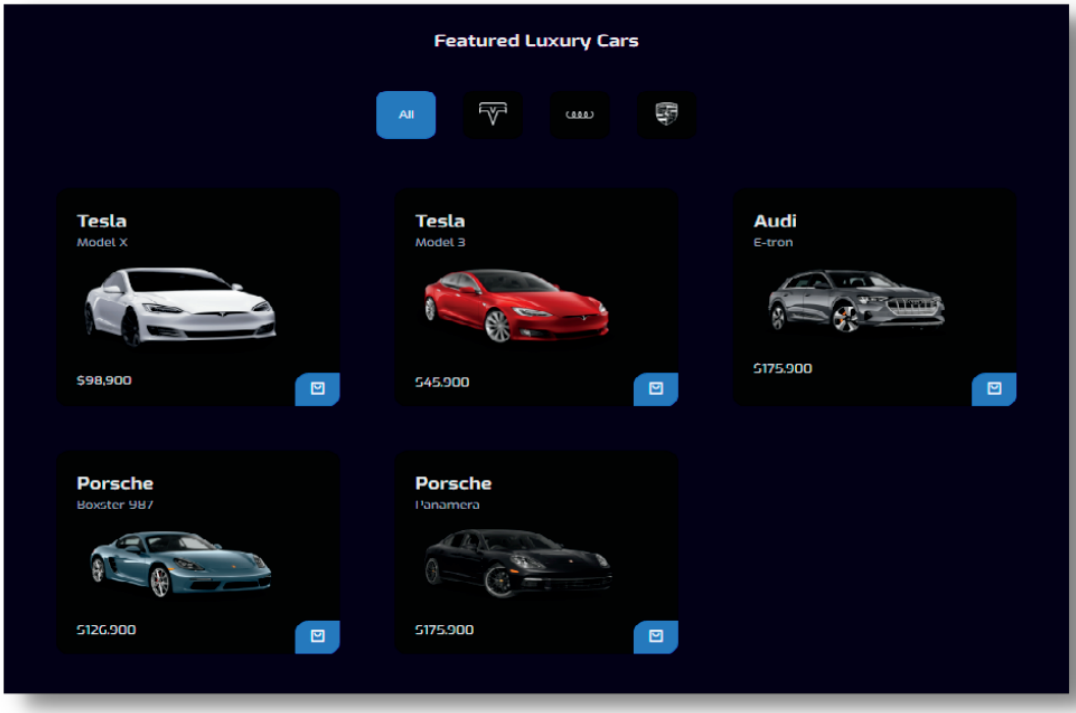
Featured Luxury Cars
All
Tesla
Model X
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Tesla
Model 3
$45,900
Audi
E-tron
$175,900
Porsche
Boxster 987
$126,900
Porsche
Panamera
$175,900

System Testing

Testing steps

The following steps will be followed in testing the proposed system:

1. **Unit testing :** testing individual components of the system to ensure they work as expected.
2. **Integration testing :** testing the interaction between different components of the system.
3. **User acceptance testing** : testing the system with real users to ensure it meets their expectations and requirements.

Stages in Testing Process

The testing process for the proposed system consists of the following stages:

1. **Planning and preparation:** defining the testing objectives and creating a testing plan.
2. **Test case design:** designing the test cases to be used in the testing process.
3. **Test execution:** executing the test cases and recording the results.
4. **Test result analysis**: analyzing the results of the tests to identify any errors or bugs.
5. **Final evaluation:** evaluating the system based on the results of the tests to determine if it meets the required specifications.

Conclusion

The CAR CRAFT website is a responsive platform for car enthusiasts built using HTML5, CSS3, and Javascript with visual effects from ScrollReveal and MixitUp. The system study, analysis, design, and testing phases were conducted to ensure a well-designed, user-friendly, and functional platform. The website provides detailed information on the latest car models and their features. Overall, the CAR CRAFT website is a great resource for car enthusiasts.

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Thank you