Requirements Document For WSH_CYLINDER

(buying and selling car website)

1 System Requirements:

1.1 Functional Requirements:

Log in:

Users can log in using email/password

Car Search:

Cars are categorized by make, model, year, price, and other relevant attributes

Users can search for cars based on various criteria.

Detailed car descriptions, including specifications, mileage, and images.

Compare:

enables users to compare multiple cars side by side to evaluate their features, specifications, and prices.

User Selling:

Users can list their cars for sale. Sellers provide essential details, upload images, and set a selling price. Sellers can edit or remove their listings.

User buying:

Users search for the car they want, whether used or new and set the price

Contact:

enables users to initiate contact with the car website administrators or customer support team

1.2 Non-Functional Requirements:

Performance: This ensures a smooth and seamless user experience when browsing car listings, submitting inquiries, or making transactions

The website has fast load times.

quick response times.

be able to handle a large number of concurrent users.

ensures a smooth and seamless user experience when browsing car listings, submitting inquiries, or making transactions.

Scalability:

The website should be designed to handle increasing traffic and accommodate a growing number of car listings and user registrations.

It should be scalable to prevent performance degradation as the user base expands.

Security:

Security measures should be implemented to protect user data

prevent unauthorized access, and ensure secure transactions.

includes encryption of sensitive information, secure payment gateways

Usability:

how easily a user can achieve their goal in a single page visit.

how quickly they perform the tasks in the store.

how memorable and intuitive the design is.

number and time of errors users make.

Cross-Browser Compatibility:

The website should be compatible with major web browsers such as Chrome, Firefox, Safari, and Edge

Data Backup and Recovery:

Regular data backups should be performed to prevent data loss in case of system failures, crashes, or other unforeseen events.

A reliable backup and recovery mechanism ensures that critical data, such as user information and transaction history, can be restored quickly and efficiently.

Social Media Integration:

The website should integrate with popular social media platforms, allowing users to share car listings, reviews, or their experiences on their social media profiles.

This enhances user engagement, expands the website's reach, and enables viral marketing potential

System Maintenance and Updates:

Your website should have a maintenance plan to ensure ongoing performance, security, and functionality.

This includes regular updates, bug fixes, security patches, and system monitoring to address any potential issues or vulnerabilities.

Search Engine Optimization:

The website should be optimized for search engines to improve its visibility in search results.

This includes implementing proper meta tags, optimizing page titles and descriptions, and ensuring that the website follows SEO best practices.

Mobile Responsiveness:

The website should be optimized for mobile devices, ensuring that it is easy to navigate, view car listings, and complete transactions on smartphones and tablets

Responsive design enables a seamless user experience across different screen sizes and resolutions.

User-Friendly Interface:

The website should have an intuitive and user-friendly interface, making it easy for users to search for cars, filter results, and contact sellers. Clear navigation, well-organized categories, and prominent call-to-action buttons enhance the user experience.

Efficiency:

How many users the system can handle concurrently.

Memorability:

can user return to the interface after some time and state efficiency work

with right way