PROJECT PROPOSAL

Project Name: Online Vehicle Shop

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Project Overview:

The Online Vehicle Shop project aims to create an interactive and user-friendly platform for customers to browse, select, and purchase vehicles online. The system will provide a variety of vehicle options, including details such as brand, model, price, and color. Customers will have the ability to register, log in, and make secure transactions.

Objectives:

User Registration and Authentication:

Allow users to register accounts with their personal information (name, phone number, email). Implement a secure authentication system for user logins.

Vehicle Catalog:

Display a catalog of vehicles with details such as brand, model, and price. Organize vehicles into categories for easy navigation (e.g., Toyota, BMW, Honda).

Vehicle Details and Customization:

Provide detailed information about each vehicle, including the option to choose the color. Implement a user-friendly interface for customizing selected vehicles.

Shopping Cart and Checkout:

Allow users to add vehicles to a shopping cart. Implement a checkout process, including address entry and payment options (cash, card, mobile payment).

User Account Management:

Enable users to view their purchase history and manage their account details. Implement a logout option to ensure user privacy.

Security Measures:

Implement secure practices for user authentication and transaction handling. Protect sensitive information, such as user credentials and payment details.
Database Integration: Utilize a database to store information about vehicles, user accounts, and purchase history. Ensure efficient retrieval and storage of data for a seamless user experience.

Technologies and Tools:

Programming Language:
Java for the backend logic.

Database:
MySQL or another relational database for storing vehicle and user information.

User Interface:
JavaFX or another suitable GUI library for creating an intuitive and visually appealing user interface.

Security:
Implement HTTPS for secure communication.
Use encryption for sensitive data, such as passwords and payment information.

Version Control:
Git for version control and collaboration.

Conclusion:
The Online Vehicle Shop project aims to provide a convenient and secure platform for customers to explore and purchase vehicles online. By

implementing user-friendly features and ensuring data security, the project aims to deliver a satisfying and reliable experience for users.