# Sample Project Proposal Document

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| Project Name: | Car Dealership |
| Purpose/Vision: | • The purpose of this project is to develop a desktop-based Car Dealership Management System (CDMS) that streamlines car dealership operations by managing car listings, vendor accounts, buyer messages, and feedback handling.<br>• It offers tools for vendors to upload and manage cars, buyers to contact vendors about specific cars, and admins to receive general feedback.<br>• The system uses C# and Windows Forms with DevExpress UI components for a modern interface and SQLite as the local database. |
| Users of the System: | • Admin<br>• Registered Vendors<br>• Guest User |
| Functional Needs: | • Vendors can add, edit, delete, and view car listings with details such as make, model, year, price, VIN, and image.<br>• Users can search and filter cars by make, model, year, price, mileage, color, VIN, and more.<br>• Registered vendors can log in securely and manage their uploaded cars and received messages.<br>• Buyers can send messages to vendors about specific cars through a contact form.<br>• Admin receives general feedback messages and can view or delete them.<br>• Dashboard allows vendors to see and manage their listed cars.<br>• Inbox system enables vendors to read and delete messages from buyers. |
| Non-Functional Needs: | • Fast loading of car listings and message inbox with efficient filtering and searching across large datasets.<br>• Intuitive and clean UI using DevExpress components for consistent layout and responsive design.<br>• Security includes role-based access control where admin has full access, vendors have limited access, and guests are read-only.<br>• Passwords are currently stored in plain text but should ideally be hashed for better security.<br>• Modular code structure ensures maintainability and stability with minimal crashes.<br>• The system is compatible with Windows OS and supports high-resolution screens |
| Optional Features: | • Barcode scanner integration for faster VIN entry during car uploads.<br>• Email notifications to alert vendors when new messages arrive.<br>• Multi-language support to allow users to switch between languages like English and Spanish.<br>• Sales reports and analytics for tracking car listing trends, exportable to PDF or Excel. |
| UI Priorities: | • A professional look and feel using DevExpress UI components and Office 365 skin style.<br>• User-friendly navigation with logical flow: Home → Login → Dashboard → Upload/Message.<br>• Responsive design ensures adaptability on different screen sizes with consistent layout and alignment.<br>• |

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| Reports: | • Car Listings Report shows all cars in the system with key attributes and is exportable to PDF format.<br>• Vendor Activity Log tracks actions like car uploads, deletions, and message exchanges.<br>• Message Statistics displays the number of messages received per vendor and feedback sent to admin.<br>• Sales Trend Report (optional) visually represents listing trends and is exportable to CSV or PDF.<br>• |
| Technologies to be used | • C# is used for application logic.<br>• Windows Forms serves as the UI framework for building the desktop app.<br>• SQLite is used as the local database for storing car, vendor, and message data.<br>• DevExpress Controls provide advanced UI components like Ribbon, Panels, and Editors.<br>• iTextSharp (Optional) is used for generating PDF reports. |
| Tools to Use | |