**Development of an Autobody Shop Application**

Group 1

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**Auto Body Shop Project Overview**

Our Auto Body Shop Application is designed to revolutionize customer experience by streamlining appointment booking and service management for auto body shops. With features that ensure efficiency, convenience, and reliability, our app empowers users to schedule repairs, purchase products, and manage their vehicle's maintenance effortlessly.

**Key Features:**

1. **User-Friendly Account Management**
   * Simplified account creation using email and password.
   * Options to securely manage appointments and transactions.
2. **Real-Time Appointment Scheduling**
   * Convenient "Make an Appointment" button accessible from every screen.
   * Live time slot availability for a wide range of services, such as oil changes.
   * Flexibility to reschedule or cancel appointments to suit user needs.
   * Dedicated customer support through an in-app phone contact option.
3. **Modern and Responsive User Interface**
   * Built with JavaFX, FXML, and CSS for a polished, responsive design.
   * Smooth navigation across screens with consistent access to the home page.
   * A visually appealing layout to ensure engaging user experience.
4. **Enhanced Customer Interaction**
   * "About Us" section showcasing previous work, including an interactive gallery for closer inspection of vehicle images.
   * Pop-up alerts and notifications for upcoming appointments and updates.
5. **Secure Data Storage**
   * User data, appointments, and transaction records are securely stored and managed using Microsoft Azure, ensuring privacy and reliability.

**Core Benefits:**

Our application goes beyond simple booking; it is a comprehensive solution to manage the entire customer experience. By combining convenience, security, and a user-centric design, the Auto Body Shop Application is the ideal tool for customers seeking a reliable platform for managing vehicle services and purchases.

**Assumptions:**

* Users have access to the internet and desktop devices.
* Users are familiar with basic scheduling and auto body service concepts.
* Users are interested in organizing and maintaining their vehicles efficiently.

**User Requirements:**

* Intuitive navigation and easy interaction.
* Functionality to create, edit, and delete scheduled maintenance.
* Pop-up alerts and reminders for upcoming events.
* Searchable product catalog with comprehensive filters.
* Secure account creation with password protection.

**Specifications and Interface Needs:**

* Options to add or remove appointments from the user's schedule.
* Interactive display of vehicle images with zoom functionality.
* Notification system for event reminders and updates.
* Access control to ensure privacy and user data security.
* Simplified purchase process with secure payment options.

**Program and Hardware Details:**

* Database Management: Microsoft Azure for reliable data storage.
* Development Environment: IntelliJ IDEA for coding and testing.

In the future, we plan to enhance the autobody shop application with exciting features. These could include offering a loyalty program within the app, where users can earn points for each transaction, which could then be redeemed for discounts or free services. We could also implement a real-time chat feature using Azure Communication Services, allowing customers to communicate with shop representatives regarding their appointments or product inquiries. These future enhancements will further elevate the user experience and the shop's service offerings.

**Summary**  
The Auto Body Shop Application redefines how customers engage with auto body services, offering a robust blend of convenience, security, and functionality. From appointment scheduling to secure transactions, our app is tailored to meet the diverse needs of modern vehicle owners, making it a must-have tool for any auto body shop customer.

**Group 1 names with their GitHub account:**

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**Repos of the Project:**

<https://github.com/kekef2002/Autobody-Shop-Application-Project.git>