#### **Project Objective**

To develop a chatbot that engages users on automotive dealership websites, guiding them through a clear path from online browsing to scheduling in-person visits for demos, sales appointments, and service bookings. The chatbot will also assist users in understanding their budget and financing options by interacting with them through a series of questions regarding their financial preferences and constraints.

#### **Key Features**

- 1. Inventory and Vehicle Search: Assist users in searching for vehicles in the dealership's inventory, including comparisons between different models.
- 2. FAQs and Common Service Questions: Provide instant answers to frequently asked questions and common service inquiries.
- 3. Lead Capture: Collect and store leads for follow-up, including contact information and user preferences.
- 4. Budget and Financing Assistance: Guide users through understanding their budget, financing options, leasing, and credit score implications.

### **Technology Stack and Frameworks**

- 1. Chatbot Development Platforms: Consider using platforms like Dialogflow, Microsoft Bot Framework, or IBM Watson Assistant for natural language processing and conversation management.
- 2. Web Development: Use HTML, CSS, and JavaScript for frontend customization, with integration APIs to connect the chatbot with dealership databases and scheduling systems.
- 3. Database: MongoDB or PostgreSQL for storing user queries, preferences, and appointment details.
- 4. Cloud Hosting: AWS, Google Cloud, or Azure for hosting the chatbot and ensuring scalability and high availability.

## **Development Phases**

- 1 Planning and Design: Define the chatbot's conversational flow, user intents, and entities. Design the user interface and experience.
- 2. Development and Integration: Build the chatbot using the selected frameworks
- 3. Testing: Perform thorough testing, including unit tests, integration tests, and user acceptance testing, to ensure the chatbot functions correctly across different scenarios.
- 4. Training and Maintenance: Continuously train the chatbot model with new data to improve accuracy and update it to reflect changes in inventory, FAQs, etc.

# **Budget Estimation**

The budget for developing a sophisticated chatbot like this varies widely based on complexity, custom features, and integration depth. A rough estimation might range from \$1,000 to \$2,000 . This budget includes:

- Development Costs: Software development time for both front-end and back-end components.
- Platform Fees: Subscription costs for chatbot development platforms and cloud hosting services.
- Testing and Deployment: Resources allocated for testing, deployment, and initial monitoring of the chatbot.