Car Dealership API – Test Scenarios

■ Scenario 1: Register as Customer

1. Request OTP → POST /api/Otp/request

{ "purpose": "register", "identifier": "customer@example.com" }

2. Register → POST /api/Auth/register

{ "email": "customer@example.com", "password": "Test@1234", "otpId": "otp-guid-here", "code": "123456" }

3. Store returned JWT (Role = Customer).

■ Scenario 2: Customer Requests Purchase

1. Browse vehicles → GET /api/Vehicles/browse.

2. Request OTP → POST /api/Otp/request

{ "purpose": "purchase", "identifier": "customer@example.com" }

3. Submit purchase → POST /api/Purchases/request

{ "vehicleId": "vehicle-guid-here", "otpId": "otp-guid-here", "code": "123456" }

4. Confirm in history → GET /api/Purchases/history.

■ Scenario 3: Admin Processes Sale

1. Login as Admin:

   - Request OTP → POST /api/Otp/request

{ "purpose": "login", "identifier": "admin@demo.local" }

   - Login → POST /api/Auth/login

{ "email": "admin@demo.local", "password": "P@ssw0rd!", "otpId": "otp-guid-here", "code": "123456" }

2. List customers → GET /api/Admin/customers.

3. Approve sale → POST /api/Admin/process-sale/purchase-guid-here?approve=true.

4. Retry same purchase → Expect error ALREADY_PROCESSED.

■ Scenario 4: Vehicle Management (Admin)

1. Add vehicle → POST /api/Vehicles/add

{ "make": "Toyota", "model": "Camry", "year": 2020, "price": 80000, "color": "Black", "mileageKm": 30000 }

   - If year > current year → Expect INVALID_YEAR.

2. Update vehicle → PUT /api/Vehicles/update (requires OTP purpose=updateVehicle).

{ "id": "vehicle-guid-here", "make": "Toyota", "model": "Corolla", "year": 2019, "price": 75000, "color": "Blue", "mile

   - If OTP invalid → Expect OTP_INVALID.

   - If valid → Vehicle updated.

■ Scenario 5: Security & Errors

- Without JWT → 401 Unauthorized.

- Customer calls Admin endpoint → 403 Forbidden.

- Register same email → EMAIL_EXISTS.

- Purchase unavailable vehicle → VEHICLE_UNAVAILABLE.

- Process non-pending purchase → ALREADY_PROCESSED.