

# Test Document: Automotive Service Center

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This document provides an overview of the API endpoints used in the automotive service center system. It is organized by user role and functionality to support testing and review.

## 1. User Management (Port 9001)

### 1.1. User Signup

- **Endpoint:** signup (can be used for customer,service manager,mechanic)
- **Method:** POST
- **URL:** http://localhost:9001/signup/signup
- **Request Body (JSON):**

```
{  "userName": "Nikhil Khilwani",  "userEmail": "202412038@dau.ac.in",  "userPassword": "123456789",  "userPhoneNumber": "9851990321",  "userAddress": "Shamlaji Modasa Main Road, Modasa, Aravalli District, Gujarat",  "role": "CALL_CENTRE_AGENT"}
```
- **Notes:** The role field likely accepts other values like CUSTOMER, SERVICE\_MANAGER, MECHANIC.

## 2. Customer & Vehicle Management (Port 9005)

### 2.1. Save Vehicle

- **Endpoint:** save vehicle
- **Description:** This api will help save vehicles for a particular customer.
- **Method:** POST
- **URL:** http://localhost:9005/api/customers/{customerId}/vehicles
- **Example URL:** http://localhost:9005/api/customers/1/vehicles
- **Request Body (JSON):**

```
{  "vin": "2JPOI09345B108901",  "make": "Bajaj",  "model": "Pulsar 125",
```

```
"registrationNumber": "GJ-06-QC-1427",  
"insured": true,  
"yearOfRegistration": 2023,  
"vehicleImageUrl": "http://localhost:9001/image.jpg"  
}
```

## 2.2. Get Vehicles for a Customer

- **Endpoint:** get vehicles for a customer
- **Description:** This api will fetch all the vehicles the customer owns.
- **Method:** GET
- **URL:** `http://localhost:9005/api/customers/{customerId}/vehicles`
- **Example URL:** `http://localhost:9005/api/customers/1/vehicles`
- **Request Body:** None

## 2.3. Update Existing Vehicle

- **Endpoint:** update existing vehicle for a customer
- **Description:** This api helps to update a vehicle for a particular customer.
- **Method:** PUT
- **URL:** `http://localhost:9005/api/customers/{customerId}/vehicles/{vehicleId}`
- **Example URL:** `http://localhost:9005/api/customers/1/vehicles/1`
- **Request Body (JSON):** (Same as saving a vehicle)

```
{  
  "vin": "2JPOI09345B108901",  
  "make": "Bajaj",  
  "model": "Pulsar 125",  
  "registrationNumber": "GJ-06-QC-1427",  
  "insured": true,  
  "yearOfRegistration": 2023,  
  "vehicleImageUrl": "http://localhost:9001/image.jpg"  
}
```

## 2.4. Delete Vehicle

- **Endpoint:** delete vehicle
- **Method:** DELETE
- **URL:** `http://localhost:9005/api/customers/{customerId}/vehicles/{vehicleId}`
- **Example URL:** `http://localhost:9005/api/customers/6/vehicles/13`
- **Request Body:** None

## 3. Manager - Work Order Management (Port 9006)

### 3.1. Get All Open Work Orders

- **Endpoint:** get all open work orders
- **Method:** GET
- **URL:** <http://localhost:9006/api/manager/workorders/open>
- **Request Body:** None

### 3.2. Get Work Order Details

- **Endpoint:** get work order details by service order id
- **Method:** GET
- **URL:** <http://localhost:9006/api/manager/workorders/{serviceOrderId}>
- **Example URL:** <http://localhost:9006/api/manager/workorders/SRV-f2c15d4e>
- **Request Body:** None

### 3.3. Update Work Order Costs

- **Endpoint:** update the estimated and final costs for the work order
- **Method:** PATCH
- **URL:** <http://localhost:9006/api/manager/workorders/{serviceOrderId}/costs>
- **Example URL:** <http://localhost:9006/api/manager/workorders/SRV-f2c15d4e/costs>
- **Request Body (JSON):**

```
{
  "estimatedCost": 2000,
  "finalCost": 1500
}
```

### 3.4. Assign Manager to Work Order

- **Endpoint:** Assign manager once work order is created
- **Method:** POST
- **URL:** <http://localhost:9006/api/manager/workorders/{serviceOrderId}/assign-manager>
- **Example URL:**  
<http://localhost:9006/api/manager/workorders/SRV-f2c15d4e/assign-manager>
- **Request Body (JSON):**

```
{
  "managerId": 4
}
```

### 3.5. Assign Mechanic to Work Order

- **Endpoint:** Assign mechanic with estimated cost as fallout
- **Method:** POST
- **URL:** `http://localhost:9006/api/manager/workorders/{serviceOrderId}/assign-mechanic`
- **Example URL:**  
`http://localhost:9006/api/manager/workorders/SRV-f2c15d4e/assign-mechanic`
- **Request Body (JSON):**

```
{
  "mechanicId": 3,
  "estimatedCost": 2000
}
```

### 3.6. Complete a Service (Manager)

- **Endpoint:** Complete a service
- **Method:** POST
- **URL:** `http://localhost:9006/api/manager/workorders/{serviceOrderId}/complete`
- **Example URL:** `http://localhost:9006/api/manager/workorders/SRV-f2c15d4e/complete`
- **Request Body (JSON):**

```
{
  "estimatedCost": 2000,
  "finalCost": 1500
}
```

### 3.7. Start a Service (Manager)

- **Endpoint:** Start the service and assign with the mechanic
- **Method:** POST
- **URL:** `http://localhost:9006/api/manager/workorders/{serviceOrderId}/start`
- **Example URL:** `http://localhost:9006/api/manager/workorders/SRV-f2c15d4e/start`
- **Request Body (JSON):**

```
{
  "userId": 3
}
```
- **Notes:** `userId` likely refers to the mechanic's ID.

## 4. Mechanic - Work Order Management (Port 9007)

### 4.1. Get Mechanic's Work Orders

- **Endpoint:** get list of workorders(mechanic api)
- **Method:** GET
- **URL:** `http://localhost:9007/api/mechanic/{mechanicId}/workorders`
- **Example URL:** `http://localhost:9007/api/mechanic/3/workorders`
- **Request Body:** None

### 4.2. Get Mechanic's Work Order Details

- **Endpoint:** get service order detail based on mechanic info
- **Method:** GET
- **URL:** `http://localhost:9007/api/mechanic/{mechanicId}/workorders/{serviceOrderId}`
- **Example URL:** `http://localhost:9007/api/mechanic/3/workorders/SRV-f2c15d4e`
- **Request Body:** None

### 4.3. Start Work Order (Mechanic)

- **Endpoint:** start workorder(mechanic api)
- **Method:** POST
- **URL:** `http://localhost:9007/api/mechanic/{mechanicId}/workorders/{serviceOrderId}/start`
- **Example URL:** `http://localhost:9007/api/mechanic/3/workorders/SRV-f2c15d4e/start`
- **Request Body:** None

### 4.4. Complete Work Order (Mechanic)

- **Endpoint:** complete work order(mechanic api)
- **Method:** POST
- **URL:**  
`http://localhost:9007/api/mechanic/{mechanicId}/workorders/{serviceOrderId}/complete`
- **Example URL:**  
`http://localhost:9007/api/mechanic/3/workorders/SRV-f2c15d4e/complete?finalCost=1500`
- **Query Parameters:**
  - finalCost (e.g., 1500)
- **Request Body:** None

## 4.5. Update Work Order Progress

- **Endpoint:** patch api to check progress
- **Method:** PATCH
- **URL:**  
http://localhost:9007/api/mechanic/{mechanicId}/workorders/{serviceOrderId}/progress
- **Example URL:**  
http://localhost:9007/api/mechanic/3/workorders/SRV-f2c15d4e/progress?progress=Checking engine
- **Query Parameters:**
  - progress (e.g., Checking engine)
- **Request Body:** None