

Test Document: Automotive Service Center

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=150
0
- **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