



Complete API Reference

Version: 4.0.0 (Microservices Architecture)

Base URL (Development): `http://localhost:3000` (API Gateway)

Base URL (Staging): `https://driversklub-backend.onrender.com`

Base URL (Production): AWS Elastic Beanstalk `driversklub-backend-env`

Last Updated: January 12, 2026

Architecture Overview

This API is built on a **microservices architecture** with 6 independent services behind an API Gateway:

- **API Gateway** (Port 3000) - Routes all requests
- **Auth Service** (Port 3001) - Authentication & user management
- **Driver Service** (Port 3002) - Driver profiles & attendance
- **Vehicle Service** (Port 3003) - Vehicles, fleets & managers
- **Assignment Service** (Port 3004) - Driver-vehicle assignments
- **Trip Service** (Port 3005) - Trips, payments, pricing & partners
- **Notification Service** (Port 3006) - Real-time notifications

Total Endpoints: 103

Note: All requests should go through the API Gateway. Individual service ports are for internal communication only.

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Authentication

All authenticated endpoints require a valid JWT token in the `Authorization` header:

```
Authorization: Bearer <access_token>
```

User Roles

- `SUPER_ADMIN` - Full system access
 - `OPERATIONS` - Operations team access
 - `MANAGER` - Fleet/Hub manager access
 - `DRIVER` - Driver-specific access
-

Core Endpoints

Health Check

GET `/health`

Check server and database connectivity.

Authentication: None

Response:

```
{
  "status": "ok",
  "service": "drivers-klub-backend",
  "database": "connected",
  "timestamp": "2025-12-26T15:51:32.202Z"
}
```

Auth

POST `/auth/send-otp`

Send OTP to user's phone number.

Authentication: None

Request Body:

```
{
  "phone": "9876543210"
}
```

Response:

```
{
  "success": true,
  "message": "OTP sent successfully"
}
```

Notes:

- In development, OTP is logged to console
 - OTP expires in 5 minutes (configurable)
 - Maximum 3 verification attempts per OTP
-

POST `/auth/verify-otp`

Verify OTP and authenticate user.

Authentication: None

Request Body:

```
{
  "phone": "9876543210",
  "otp": "123456",
  "verifiedKey": "pass" // Optional: Dev bypass key
}
```

Response:

```
{
  "success": true,
  "data": {
    "accessToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
    "refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
    "user": {
      "id": "uuid",
      "name": "Rajesh Kumar",
      "phone": "9876543210",
      "role": "DRIVER",
      "isActive": true
    }
  }
}
```

Security:

- OTP is deleted after successful verification (prevents reuse)
 - Dev bypass only works in non-production environments
-

POST `/auth/refresh`

Refresh access token using refresh token.

Authentication: None

Request Body:

```
{
  "refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
}
```

Response:

```
{
  "success": true,
  "data": {
    "accessToken": "new_access_token",
    "refreshToken": "new_refresh_token"
  }
}
```

POST /auth/logout

Logout user and revoke tokens.

Authentication: Optional (Bearer token)

Request Body:

```
{
  "refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
}
```

Response:

```
{
  "success": true,
  "message": "Logged out successfully"
}
```

Users

All user endpoints require authentication.

POST /users

Create a new user.

Authentication: Required

Roles: SUPER_ADMIN

Request Body:

```
{
  "name": "John Doe",
  "phone": "9876543210",
  "role": "DRIVER",
  "isActive": true
}
```

Response:

```
{
  "success": true,
  "data": {
    "id": "uuid",
    "name": "John Doe",
    "phone": "9876543210",
    "role": "DRIVER",
    "isActive": true,
    "createdAt": "2025-12-26T10:00:00.000Z"
  }
}
```

GET /users

Get all users.

Authentication: Required

Roles: SUPER_ADMIN , OPERATIONS

Response:

```
{
  "success": true,
  "data": [
    {
      "id": "uuid",
      "name": "John Doe",
      "phone": "9876543210",
      "role": "DRIVER",
      "isActive": true
    }
  ]
}
```

GET /users/:id

Get user by ID.

Authentication: Required

Roles: SUPER_ADMIN , OPERATIONS

Response:

```
{
  "success": true,
  "data": {
    "id": "uuid",
    "name": "John Doe",
    "phone": "9876543210",
    "role": "DRIVER",
    "isActive": true
  }
}
```

PATCH /users/:id/deactivate

Deactivate a user.

Authentication: Required

Roles: SUPER_ADMIN

Response:

```
{
  "success": true,
  "message": "User deactivated successfully"
}
```

Drivers

All driver endpoints require authentication.

POST /drivers

Create a new driver profile.

Authentication: Required

Roles: SUPER_ADMIN , OPERATIONS

Request Body:

```
{
  "userId": "uuid",
  "fleetId": "uuid",
  "firstName": "Rajesh",
  "lastName": "Kumar",
  "mobile": "9876543210",
}
```

```
"licenseNumber": "DL-0120230012345",
"profilePic": "https://example.com/photo.jpg",
"licenseFront": "https://example.com/license-front.jpg",
"licenseBack": "https://example.com/license-back.jpg",
"aadharFront": "https://example.com/aadhaar-front.jpg",
"aadharBack": "https://example.com/aadhaar-back.jpg",
"panCardImage": "https://example.com/pan.jpg",
"livePhoto": "https://example.com/live.jpg",
"bankIdProof": "https://example.com/bank-proof.jpg",
"kycStatus": "PENDING",
"status": "ACTIVE",
"isAvailable": true
}
```

Response:

```
{
  "success": true,
  "data": {
    "id": "uuid",
    "userId": "uuid",
    "fleetId": "uuid",
    "firstName": "Rajesh",
    "lastName": "Kumar",
    "mobile": "9876543210",
    "licenseNumber": "DL-0120230012345",
    "kycStatus": "PENDING",
    "status": "ACTIVE",
    "isAvailable": true
  }
}
```

GET `/drivers/fleet/:fleetId`

Get all drivers for a specific fleet.

Authentication: Required

Roles: `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

Response:

```
{
  "success": true,
  "data": [
    {
      "id": "uuid",
      "firstName": "Rajesh",
      "lastName": "Kumar",
      "mobile": "9876543210",
      "status": "ACTIVE",
      "isAvailable": true
    }
  ]
}
```

```
]
}
```

GET `/drivers/hub/:hubId`

Get all drivers for a specific hub.

Authentication: Required

Roles: `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

Response:

```
{
  "success": true,
  "data": [
    {
      "id": "uuid",
      "firstName": "Rajesh",
      "lastName": "Kumar",
      "mobile": "9876543210",
      "hubId": "uuid"
    }
  ]
}
```

GET `/drivers/me`

Get current driver's profile.

Authentication: Required

Roles: `DRIVER`

Response:

```
{
  "success": true,
  "data": {
    "id": "uuid",
    "firstName": "Rajesh",
    "lastName": "Kumar",
    "mobile": "9876543210",
    "licenseNumber": "DL-0120230012345",
    "kycStatus": "APPROVED",
    "status": "ACTIVE",
    "isAvailable": true,
    "fleet": {
      "id": "uuid",
      "name": "Delhi Cabs Pvt Ltd",
      "city": "DELHI"
    },
    "assignments": [
      {

```



```
    "id": "assignment-uuid",
    "status": "ACTIVE",
    "startDate": "2026-01-12T00:00:00Z",
    "vehicle": {
      "id": "vehicle-uuid",
      "vehicleNumber": "DL10CA1234",
      "vehicleName": "Tata Tigor EV",
      "fuelType": "ELECTRIC",
      "vehicleType": "SEDAN"
    }
  }
]
```

Note: The `assignments` array contains the currently assigned vehicle. If no vehicle is assigned, it will be empty.

```
---

#### GET `/drivers/:id`

Get driver by ID.

**Authentication:** Required
**Roles:** `SUPER_ADMIN`, `OPERATIONS`, `MANAGER`

**Response:**

```json
{
 "success": true,
 "data": {
 "id": "uuid",
 "firstName": "Rajesh",
 "lastName": "Kumar",
 "mobile": "9876543210",
 "licenseNumber": "DL-0120230012345",
 "kycStatus": "APPROVED",
 "status": "ACTIVE"
 }
}
```

---

#### **PATCH** `/drivers/:id`

Update driver details.

**Authentication:** Required

**Roles:** `SUPER_ADMIN`, `OPERATIONS`, `MANAGER`

**Request Body:**

```
{
 "firstName": "Rajesh",
 "lastName": "Kumar",
 "mobile": "9876543210",
 "licenseNumber": "DL-0120230012345"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "firstName": "Rajesh",
 "lastName": "Kumar"
 }
}
```

---

**PATCH** `/drivers/:id/status`

Update driver status.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Request Body:**

```
{
 "status": "ACTIVE"
}
```

**Possible Status Values:**

- ACTIVE
- INACTIVE
- SUSPENDED

---

**PATCH** `/drivers/:id/availability`

Update driver availability.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Request Body:**

```
{
 "isAvailable": true
}
```

```
}
```

## Fleet Management

All fleet endpoints require authentication.

### POST /fleets

Create a new fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN

#### Request Body:

```
{
 "name": "Demo Fleet Pvt Ltd",
 "city": "GURGAON",
 "mobile": "9876543210",
 "panNumber": "ABCDE1234F",
 "modeId": "CAB",
 "fleetType": "COMPANY",
 "status": "ACTIVE"
}
```

#### Fleet Types:

- COMPANY
- INDIVIDUAL

#### Response:

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "name": "Demo Fleet Pvt Ltd",
 "city": "GURGAON",
 "mobile": "9876543210",
 "status": "ACTIVE"
 }
}
```

### GET /fleets

Get all fleets.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Response:

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "name": "Demo Fleet Pvt Ltd",
 "city": "GURGAON",
 "status": "ACTIVE"
 }
]
}
```

---

#### GET /fleets/:id

Get fleet by ID.

**Authentication:** Required

**Roles:** SUPER\_ADMIN, OPERATIONS

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "name": "Demo Fleet Pvt Ltd",
 "city": "GURGAON",
 "mobile": "9876543210",
 "panNumber": "ABCDE1234F",
 "status": "ACTIVE"
 }
}
```

---

#### PATCH /fleets/:id/deactivate

Deactivate a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN

**Response:**

```
{
 "success": true,
 "message": "Fleet deactivated successfully"
}
```

---

#### POST /fleets/:id/hubs

Create a hub for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Request Body:**

```
{
 "name": "Gurgaon Hub",
 "location": "Sector 29, Gurgaon",
 "city": "GURGAON"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "name": "Gurgaon Hub",
 "fleetId": "uuid",
 "location": "Sector 29, Gurgaon",
 "city": "GURGAON"
 }
}
```

---

**GET** /fleets/:id/hubs

Get all hubs for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "name": "Gurgaon Hub",
 "location": "Sector 29, Gurgaon",
 "city": "GURGAON"
 }
]
}
```

---

**POST** /fleets/:id/hub-managers

Create a hub manager for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Request Body:**

```
{
 "userId": "uuid",
 "name": "Manager Name",
 "phone": "9876543210"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "userId": "uuid",
 "fleetId": "uuid",
 "name": "Manager Name",
 "phone": "9876543210"
 }
}
```

---

**GET** /fleets/:id/hub-managers

Get all hub managers for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "name": "Manager Name",
 "phone": "9876543210"
 }
]
}
```

---

**GET** /fleets/hub-manager/:id

Get hub manager by ID.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "name": "Manager Name",
 "phone": "9876543210",
 "fleetId": "uuid"
 }
}
```

**POST** `/fleets/hubs/:hubId/assign-manager`

Assign a manager to a hub.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "managerId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Manager assigned to hub successfully"
}
```

**POST** `/fleets/hubs/:id/add-vehicle`

Add a vehicle to a hub.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "vehicleId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Vehicle added to hub successfully"
}
```

---

**POST** `/fleets/hubs/:id/add-driver`

Add a driver to a hub.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "driverId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Driver added to hub successfully"
}
```

---

**POST** `/fleets/hubs/:id/remove-vehicle`

Remove a vehicle from a hub.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "vehicleId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Vehicle removed from hub successfully"
}
```



---

**POST** `/fleets/hubs/:id/remove-driver`

Remove a driver from a hub.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "driverId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Driver removed from hub successfully"
}
```

---

## Fleet Managers

All fleet manager endpoints require authentication.

**POST** `/fleet-managers`

Create a fleet manager.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "userId": "uuid",
 "fleetId": "uuid",
 "name": "Manager Name",
 "phone": "9876543210"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "userId": "uuid",
 "fleetId": "uuid",
```

```
 "name": "Manager Name",
 "phone": "9876543210"
 }
}
```

---

**GET** `/fleet-managers/fleet/:fleetId`

Get all fleet managers for a fleet.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "name": "Manager Name",
 "phone": "9876543210"
 }
]
}
```

---

**PATCH** `/fleet-managers/:id/deactivate`

Deactivate a fleet manager.

**Authentication:** Required

**Roles:** `SUPER_ADMIN`

**Response:**

```
{
 "success": true,
 "message": "Fleet manager deactivated successfully"
}
```

---

**GET** `/drivers/:id/preference`

Get current driver preferences.

**Authentication:** Required **Roles:** `DRIVER`

**Response:**

```
{
 "success": true,
 "data": {
```

```
 "preferences": {
 "smokingAllowed": false,
 "musicPreference": "Rock",
 "acPreferred": true
 }
 }
}
```

---

**POST** `/drivers/:id/preference/update`

Request a change in driver preferences.

**Authentication:** Required **Roles:** DRIVER

**Request Body:**

```
{
 "requestedPreference": {
 "smokingAllowed": true
 }
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "status": "PENDING",
 "requestedPreference": { "smokingAllowed": true }
 },
 "message": "Preference change request submitted successfully"
}
```

---

**GET** `/drivers/preference/pending-requests`

Get all pending preference change requests.

**Authentication:** Required **Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "driverId": "uuid",
 "driverName": "Rajesh Kumar",
 "currentPreference": { "smokingAllowed": false },

```

```
 "requestedPreference": { "smokingAllowed": true },
 "status": "PENDING",
 "requestAt": "2026-01-08T10:00:00Z"
 }
]
```

---

**POST** `/drivers/preference/update-status`

Approve or reject a preference change request.

**Authentication:** Required **Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "requestId": "uuid",
 "status": "APPROVED",
 "rejectionReason": "Optional reason if rejected"
}
```

**Response:**

```
{
 "success": true,
 "message": "Preference request status updated successfully"
}
```

---

## Vehicles

All vehicle endpoints require authentication.

**POST** `/vehicles`

Create a new vehicle.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "fleetId": "uuid",
 "vehicleNumber": "DL01AB1234",
 "vehicleName": "Tata Tigor EV",
 "vehicleModel": "Tigor EV 2024",
 "vehicleColor": "White",
 "fuelType": "ELECTRIC",
 "ownership": "OWNED",
}
```

```
"status": "ACTIVE",
"rcFrontImage": "https://example.com/rc-front.jpg",
"rcBackImage": "https://example.com/rc-back.jpg",
"permitImage": "https://example.com/permit.jpg",
"permitExpiry": "2034-12-31",
"fitnessImage": "https://example.com/fitness.jpg",
"fitnessExpiry": "2026-12-31",
"insuranceImage": "https://example.com/insurance.jpg",
"insuranceExpiry": "2025-12-31"
}
```

#### Fuel Types:

- PETROL
- DIESEL
- CNG
- ELECTRIC

#### Ownership Types:

- OWNED
- LEASED

#### Vehicle Status:

- ACTIVE
- INACTIVE
- MAINTENANCE

#### Response:

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "vehicleNumber": "DL01AB1234",
 "vehicleName": "Tata Tigor EV",
 "status": "ACTIVE"
 }
}
```

---

#### GET `/vehicles/fleet/:fleetId`

Get all vehicles for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

#### Response:

```
{
 "success": true,
 "data": [
```

```
{
 "id": "uuid",
 "vehicleNumber": "DL01AB1234",
 "vehicleName": "Tata Tigor EV",
 "status": "ACTIVE"
}
```

**GET** `/vehicles/hub/:hubId`

Get all vehicles for a hub.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "vehicleNumber": "DL01AB1234",
 "vehicleName": "Tata Tigor EV",
 "hubId": "uuid"
 }
]
}
```

**GET** `/vehicles/:id`

Get vehicle by ID.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "vehicleNumber": "DL01AB1234",
 "vehicleName": "Tata Tigor EV",
 "vehicleModel": "Tigor EV 2024",
 "fuelType": "ELECTRIC",
 "status": "ACTIVE"
 }
}
```

**PATCH** `/vehicles/:id`

Update vehicle details.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "vehicleName": "Tata Tigor EV",
 "vehicleModel": "Tigor EV 2024",
 "vehicleColor": "White"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "vehicleName": "Tata Tigor EV"
 }
}
```

---

**GET** `/drivers/:id/preference`

Get driver preferences.

**Authentication:** Required

**Roles:** `DRIVER`

**Response:**

```
{
 "success": true,
 "statusCode": 200,
 "message": "Driver preferences retrieved successfully",
 "data": [
 {
 "key": "prefer_airport_rides",
 "displayName": "Prefer airport rides",
 "description": "Prioritize airport pickup and drop trips",
 "category": "TRIP",
 "approvalRequired": true,
 "value": true
 }
]
}
```

---

**POST** `/drivers/:id/preference/update`

Request preference change.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "prefer_airport_rides": true,
 "accept_rentals": true,
 "auto_assign_rides": true
}
```

**Response:**

```
{
 "success": true,
 "message": "Preference change request submitted successfully"
}
```

**GET** `/drivers/preference/pending-requests`

Get pending preference requests.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "statusCode": 200,
 "message": "Pending preference requests retrieved successfully",
 "data": [
 {
 "id": "bd3c2df9-d58d-4b5a-8d20-2ecd8db1b63e",
 "driverId": "ad8324ca-2dea-4618-ba5e-3095fa123d06",
 "currentPreference": {
 "accept_rentals": false,
 "prefer_airport_rides": false
 },
 "requestedPreference": {
 "accept_rentals": true,
 "prefer_airport_rides": true
 },
 "status": "PENDING",
 "requestAt": "2026-01-08T04:38:38.415Z"
 }
]
}
```



```
]
}
```

## POST /drivers/preference/update-status

Update preference request status.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

### Request Body (Approve):

```
{
 "id": "bd3c2df9-d58d-4b5a-8d20-2ecd8db1b63e",
 "status": "APPROVED"
}
```

### Request Body (Reject):

```
{
 "id": "bd3c2df9-d58d-4b5a-8d20-2ecd8db1b63e",
 "status": "REJECTED",
 "rejection_reason": "demo test"
}
```

### Response:

```
{
 "success": true,
 "statusCode": 200,
 "message": "Preference change request updated successfully",
 "data": {
 "id": "bd3c2df9-d58d-4b5a-8d20-2ecd8db1b63e",
 "status": "REJECTED",
 "rejectionReason": "demo test"
 }
}
```

## PATCH /vehicles/:id/docs

Update vehicle documents.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

### Request Body:

```
{
 "rcFrontImage": "https://example.com/rc-front.jpg",
 "rcBackImage": "https://example.com/rc-back.jpg",
 "permitImage": "https://example.com/permit.jpg",
 "permitExpiry": "2034-12-31"
}
```

**Response:**

```
{
 "success": true,
 "message": "Vehicle documents updated successfully"
}
```

---

**PATCH** `/vehicles/:id/status`

Update vehicle status.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "status": "ACTIVE"
}
```

---

**PATCH** `/vehicles/:id/deactivate`

Deactivate a vehicle.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Response:**

```
{
 "success": true,
 "message": "Vehicle deactivated successfully"
}
```

---

**PATCH\_DOCS** `/vehicles/:id/docs`

Update vehicle documents.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "rcFrontImage": "https://example.com/rc-front.jpg",
 "rcBackImage": "https://example.com/rc-back.jpg",
 "permitImage": "https://example.com/permit.jpg",
 "permitExpiry": "2034-12-31",
 "fitnessImage": "https://example.com/fitness.jpg",
 "fitnessExpiry": "2026-12-31",
 "insuranceImage": "https://example.com/insurance.jpg",
 "insuranceExpiry": "2025-12-31"
}
```

**Response:**

```
{
 "success": true,
 "message": "Vehicle documents updated successfully"
}
```

---

**PATCH\_STATUS** `/vehicles/:id/status`

Update vehicle status.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "status": "ACTIVE"
}
```

**Status Values:**

- `ACTIVE`
- `INACTIVE`
- `MAINTENANCE`

**Response:**

```
{
 "success": true,
 "message": "Vehicle status updated successfully"
}
```

---

## **PATCH\_DEACTIVATE** /vehicles/:id/deactivate

Deactivate a vehicle.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "success": true,
 "message": "Vehicle deactivated successfully"
}
```

## **Assignments**

All assignment endpoints require authentication.

### **POST** /assignments

Create a driver-vehicle assignment.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Request Body:**

```
{
 "fleetId": "uuid",
 "driverId": "uuid",
 "vehicleId": "uuid",
 "status": "ACTIVE"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "fleetId": "uuid",
 "driverId": "uuid",
 "vehicleId": "uuid",
 "status": "ACTIVE"
 }
}
```

### **GET** /assignments/fleet/:fleetId

Get all assignments for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "driver": {
 "id": "uuid",
 "firstName": "Rajesh",
 "lastName": "Kumar"
 },
 "vehicle": {
 "id": "uuid",
 "vehicleNumber": "DL01AB1234"
 },
 "status": "ACTIVE"
 }
]
}
```

---

**GET** /assignments/trip/:tripId

Get assignments for a specific trip.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "tripId": "uuid",
 "driverId": "uuid",
 "vehicleId": "uuid"
 }
]
}
```

---

**PATCH** /assignments/:id/end

End an assignment.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Response:**

```
{
 "success": true,
 "message": "Assignment ended successfully"
}
```

**Attendance**

All attendance endpoints require authentication.

**POST** `/attendance/check-in`

Driver check-in.

**Authentication:** Required

**Roles:** Any authenticated user

**Request Body:**

```
{
 "driverId": "uuid",
 "location": {
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "timestamp": "2025-12-26T10:00:00.000Z"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "driverId": "uuid",
 "checkInTime": "2025-12-26T10:00:00.000Z",
 "status": "PENDING"
 }
}
```

**POST** `/attendance/check-out`

Driver check-out.

**Authentication:** Required

**Roles:** Any authenticated user

**Request Body:**

```
{
 "attendanceId": "uuid",
 "location": {
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "odometer": 10500,
 "cashDeposited": 500,
 "timestamp": "2025-12-26T18:00:00.000Z"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "checkOutTime": "2025-12-26T18:00:00.000Z"
 }
}
```

---

**POST** /attendance/start-break

Start a break during active attendance.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "attendanceId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "attendanceId": "uuid",
 "startTime": "2025-12-26T12:00:00.000Z"
 }
}
```

---

**POST** /attendance/end-break

End current break.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "breakId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "endTime": "2025-12-26T12:30:00.000Z"
 }
}
```

---

**GET** /attendance/history

Get attendance history.

**Authentication:** Required

**Roles:** Any authenticated user

**Query Parameters:**

- driverId (optional) - Filter by driver
- startDate (optional) - Start date
- endDate (optional) - End date

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "driverId": "uuid",
 "checkInTime": "2025-12-26T10:00:00.000Z",
 "checkOutTime": "2025-12-26T18:00:00.000Z",
 "status": "APPROVED"
 }
]
}
```

---

**POST** /attendance/:id/approve



Approve attendance record.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , MANAGER

**Response:**

```
{
 "success": true,
 "message": "Attendance approved successfully"
}
```

---

**POST** /attendance/:id/reject

Reject attendance record.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , MANAGER

**Request Body:**

```
{
 "reason": "Invalid check-in location"
}
```

**Response:**

```
{
 "success": true,
 "message": "Attendance rejected successfully"
}
```

---

## Trips

All trip endpoints require authentication.

**POST** /trips

Create a new trip.

**Authentication:** Required

**Request Body:**

```
{
 "pickupLocation": {
 "address": "Sector 29, Gurgaon",
 "latitude": 28.4595,
 "longitude": 77.0266
 }
}
```

```
 },
 "dropLocation": {
 "address": "IGI Airport, Delhi",
 "latitude": 28.5562,
 "longitude": 77.1000
 },
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "passengerName": "John Doe",
 "passengerPhone": "9876543210",
 "vehicleType": "SEDAN",
 "bookingType": "PREBOOK"
 }
}
```

#### Booking Types:

- `PREBOOK` - Scheduled in advance
- `INSTANT` - Immediate booking

#### Response:

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "pickupLocation": {
 "address": "Sector 29, Gurgaon",
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "dropLocation": {
 "address": "IGI Airport, Delhi",
 "latitude": 28.5562,
 "longitude": 77.1000
 },
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "status": "PENDING",
 "estimatedFare": 625,
 "distance": 25.5
 }
}
```

---

#### GET `/trips`

Get trips for current driver.

**Authentication:** Required

**Roles:** `DRIVER`

#### Query Parameters:

- `status` (optional) - Filter by status
- `date` (optional) - Filter by date

#### Response:

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "pickupLocation": {
 "address": "Sector 29, Gurgaon"
 },
 "dropLocation": {
 "address": "IGI Airport, Delhi"
 },
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "status": "DRIVER_ASSIGNED",
 "estimatedFare": 625
 }
]
}
```

**GET** /trips/:id

Get trip details by ID.

**Authentication:** Required

**Response:**

```
{
 "success": true,
 "data": {
 "id": "uuid",
 "pickupLocation": {
 "address": "Sector 29, Gurgaon",
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "dropLocation": {
 "address": "IGI Airport, Delhi",
 "latitude": 28.5562,
 "longitude": 77.1000
 },
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "status": "DRIVER_ASSIGNED",
 "driver": {
 "id": "uuid",
 "firstName": "Rajesh",
 "lastName": "Kumar",
 "mobile": "9876543210"
 },
 "vehicle": {
 "id": "uuid",
 "vehicleNumber": "DL01AB1234"
 },
 "estimatedFare": 625,
 }
}
```

```
 "distance": 25.5
 }
}
```

---

**POST** `/trips/:id/assign`

Assign driver to trip.

**Authentication:** Required

**Request Body:**

```
{
 "driverId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Driver assigned successfully",
 "data": {
 "tripId": "uuid",
 "driverId": "uuid",
 "status": "DRIVER_ASSIGNED"
 }
}
```

---

**POST** `/trips/:id/start`

Start a trip (driver en route to pickup).

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "location": {
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "timestamp": "2025-12-26T13:30:00.000Z"
}
```

**Constraints:**

- Must be within 2.5 hours of pickup time
- Trip must be in `DRIVER_ASSIGNED` status

**Response:**

```
{
 "success": true,
 "message": "Trip started successfully",
 "data": {
 "tripId": "uuid",
 "status": "STARTED"
 }
}
```

**POST** `/trips/:id/arrived`

Mark driver as arrived at pickup location.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "location": {
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "timestamp": "2025-12-26T13:55:00.000Z"
}
```

**Constraints:**

- Must be within 30 minutes of pickup time
- Must be within 500m radius of pickup location
- Trip must be in `STARTED` status

**Response:**

```
{
 "success": true,
 "message": "Arrival confirmed",
 "data": {
 "tripId": "uuid",
 "status": "ARRIVED"
 }
}
```

**POST** `/trips/:id/onboard`

Mark passenger as onboarded.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "otp": "1234",
 "timestamp": "2025-12-26T14:00:00.000Z"
}
```

**Response:**

```
{
 "success": true,
 "message": "Passenger onboarded successfully",
 "data": {
 "tripId": "uuid",
 "status": "ONBOARDED"
 }
}
```

---

**POST** /trips/:id/noshow

Mark trip as no-show.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "reason": "Passenger did not arrive",
 "timestamp": "2025-12-26T14:30:00.000Z"
}
```

**Constraints:**

- Can only be marked after 30 minutes past pickup time

**Response:**

```
{
 "success": true,
 "message": "Trip marked as no-show",
 "data": {
 "tripId": "uuid",
 "status": "NO_SHOW"
 }
}
```

```
}
}
```

## POST /trips/:id/complete

Complete a trip.

**Authentication:** Required

**Roles:** DRIVER

### Request Body:

```
{
 "location": {
 "latitude": 28.5562,
 "longitude": 77.1000
 },
 "actualDistance": 26.2,
 "timestamp": "2025-12-26T15:00:00.000Z"
}
```

### Response:

```
{
 "success": true,
 "message": "Trip completed successfully",
 "data": {
 "tripId": "uuid",
 "status": "COMPLETED",
 "actualDistance": 26.2,
 "finalFare": 650
 }
}
```

## GET /trips/:id/tracking

Get real-time trip tracking information.

**Authentication:** Required

### Response:

```
{
 "success": true,
 "data": {
 "tripId": "uuid",
 "status": "ONBOARDED",
 "driver": {
 "name": "Rajesh Kumar",
 "phone": "9876543210",
 }
 }
}
```

```
 "currentLocation": {
 "latitude": 28.5000,
 "longitude": 77.0500
 },
 "vehicle": {
 "number": "DL01AB1234",
 "model": "Tata Tigor EV"
 },
 "eta": "2025-12-26T15:00:00.000Z"
 }
}
```

## Admin Trips

All admin trip endpoints require authentication and `SUPER_ADMIN` role.

### GET `/admin/trips`

Get all trips (admin view).

**Authentication:** Required

**Roles:** `SUPER_ADMIN`

#### Query Parameters:

- `status` (optional) - Filter by status
- `date` (optional) - Filter by date
- `driverId` (optional) - Filter by driver
- `fleetId` (optional) - Filter by fleet

#### Response:

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "pickupLocation": {
 "address": "Sector 29, Gurgaon"
 },
 "dropLocation": {
 "address": "IGI Airport, Delhi"
 },
 "status": "COMPLETED",
 "driver": {
 "id": "uuid",
 "firstName": "Rajesh",
 "lastName": "Kumar"
 },
 "estimatedFare": 625,
 "finalFare": 650
 }
]
}
```



```
]
}
```

---

**POST** `/admin/trips/assign`

Manually assign driver to trip (admin).

**Authentication:** Required

**Roles:** `SUPER_ADMIN`

**Request Body:**

```
{
 "tripId": "uuid",
 "driverId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Driver assigned successfully"
}
```

---

**POST** `/admin/trips/unassign`

Unassign driver from trip.

**Authentication:** Required

**Roles:** `SUPER_ADMIN`

**Request Body:**

```
{
 "tripId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Driver unassigned successfully"
}
```

---

**POST** `/admin/trips/reassign`

Reassign trip to different driver.

**Authentication:** Required

**Roles:** SUPER\_ADMIN

**Request Body:**

```
{
 "tripId": "uuid",
 "newDriverId": "uuid"
}
```

**Response:**

```
{
 "success": true,
 "message": "Trip reassigned successfully"
}
```

---

## Pricing

**POST** /pricing/preview

Get pricing preview for a trip.

**Authentication:** None

**Request Body:**

```
{
 "pickupLocation": {
 "latitude": 28.4595,
 "longitude": 77.0266
 },
 "dropLocation": {
 "latitude": 28.5562,
 "longitude": 77.1000
 },
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "vehicleType": "SEDAN"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "estimatedFare": 625,
 }
}
```

```
{
 "distance": 25.5,
 "duration": 45,
 "breakdown": {
 "baseFare": 100,
 "distanceFare": 450,
 "timeFare": 75,
 "taxes": 0,
 "total": 625
 }
}
```

---

## Partner Integrations

---

### MakeMyTrip (MMT)

Partner integration endpoints for MakeMyTrip.

**POST** `/partner/mmt/partnersearchendpoint`

Search for available vehicles (MMT → Driver's Klub).

**Authentication:** Basic Auth (Username/Password)

**Request Body:**

```
{
 "pickupLocation": "Sector 29, Gurgaon",
 "dropLocation": "IGI Airport, Delhi",
 "pickupTime": "2025-12-26T14:00:00.000Z",
 "vehicleType": "SEDAN"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "available": true,
 "vehicles": [
 {
 "type": "SEDAN",
 "fare": 625,
 "eta": 10
 }
]
 }
}
```

---

**POST** `/partner/mmt/partnerblockendpoint`

Block a vehicle for booking (MMT → Driver's Klub).

**Authentication:** Basic Auth (Username/Password)

**Request Body:**

```
{
 "bookingId": "MMT123456",
 "vehicleType": "SEDAN",
 "pickupLocation": "Sector 29, Gurgaon",
 "dropLocation": "IGI Airport, Delhi",
 "pickupTime": "2025-12-26T14:00:00.000Z"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "blockId": "uuid",
 "expiresAt": "2025-12-26T13:50:00.000Z"
 }
}
```

---

**POST** `/partner/mmt/partnerpaidendpoint`

Confirm booking payment (MMT → Driver's Klub).

**Authentication:** Basic Auth (Username/Password)

**Request Body:**

```
{
 "bookingId": "MMT123456",
 "blockId": "uuid",
 "paymentStatus": "PAID"
}
```

**Response:**

```
{
 "success": true,
 "data": {
 "tripId": "uuid",
 "status": "CONFIRMED"
 }
}
```

```
}
}
```

#### POST /partner/mmt/partnercancelendpoint

Cancel a booking (MMT → Driver's Klub).

**Authentication:** None (Partner API)

#### Request Body:

```
{
 "bookingId": "MMT123456",
 "reason": "Customer cancellation"
}
```

#### Response:

```
{
 "success": true,
 "message": "Booking cancelled successfully"
}
```

#### GET /partner/mmt/booking/details

Get booking details (MMT → Driver's Klub).

**Authentication:** None (Partner API)

#### Query Parameters:

- bookingId - MMT booking ID

#### Response:

```
{
 "success": true,
 "data": {
 "bookingId": "MMT123456",
 "tripId": "uuid",
 "status": "CONFIRMED",
 "driver": {
 "name": "Rajesh Kumar",
 "phone": "9876543210"
 },
 "vehicle": {
 "number": "DL01AB1234",
 "model": "Tata Tigor EV"
 }
 }
}
```

```
}
}
```

#### **POST** /partner/mmt/partnerrescheduleblockendpoint

Validate logic for reschedule request (MMT → Driver's Klub).

**Authentication:** Basic Auth (Username/Password)

#### **Request Body:**

```
{
 "order_reference_number": "MMT123456",
 "start_time": "2025-12-31T10:00:00Z"
}
```

#### **Response:**

```
{
 "response": {
 "success": true,
 "verification_code": "1234",
 "fare_details": {
 "total_amount": 1000,
 "payable_amount": 1000
 },
 "driver_details": {
 "name": "Rajesh",
 "phone": "9876543210"
 }
 }
}
```

#### **POST** /partner/mmt/partnerrescheduleconfirmendpoint

Confirm reschedule request (MMT → Driver's Klub).

**Authentication:** Basic Auth (Username/Password)

#### **Request Body:**

```
{
 "order_reference_number": "MMT123456"
}
```

#### **Response:**

```
{
 "response": {
 "success": true
 }
}
```

---

**POST** `/trips/:id/location`

Update driver live location for a trip.

**Authentication:** Required **Roles:** DRIVER

**Request Body:**

```
{
 "lat": 28.5355,
 "lng": 77.3910
}
```

**Response:**

```
{
 "success": true,
 "message": "Location updated successfully"
}
```

---

## Webhooks

Webhooks allow real-time notifications for system events, primarily payment updates.

### Easebuzz Payment Webhook

**POST** `/webhooks/easebuzz`

Webhook endpoint for Easebuzz payment gateway notifications.

**Authentication:** Signature Verification (Salt-based)

**Request Body:**

- Standard Easebuzz webhook payload (FormData) including `txnid`, `status`, `amount`, `hash`, etc.

**Response:**

```
{
 "success": true,
```

```
"message": "Webhook processed successfully"
}
```

## Error Handling

---

All API errors follow a consistent format:

```
{
 "success": false,
 "message": "Error message",
 "error": {
 "code": "ERROR_CODE",
 "details": "Detailed error information"
 }
}
```

### Common HTTP Status Codes

- 200 - Success
- 201 - Created
- 400 - Bad Request (validation errors)
- 401 - Unauthorized (missing or invalid token)
- 403 - Forbidden (insufficient permissions)
- 404 - Not Found
- 429 - Too Many Requests (rate limit exceeded)
- 500 - Internal Server Error
- 503 - Service Unavailable (database connection issues)

### Common Error Codes

- `INVALID_CREDENTIALS` - Invalid phone or OTP
- `OTP_EXPIRED` - OTP has expired
- `OTP_ATTEMPT_EXCEEDED` - Too many OTP attempts
- `UNAUTHORIZED` - Missing or invalid authentication token
- `FORBIDDEN` - Insufficient permissions
- `NOT_FOUND` - Resource not found
- `VALIDATION_ERROR` - Request validation failed
- `TRIP_CONSTRAINT_VIOLATION` - Trip timing/location constraints not met

---

## Rate Limiting

---

The API implements rate limiting to prevent abuse:

- **Window:** 15 minutes
- **Limit:** 100 requests per IP



- **Headers:**

- `X-RateLimit-Limit` - Maximum requests allowed
- `X-RateLimit-Remaining` - Remaining requests
- `X-RateLimit-Reset` - Time when limit resets

When rate limit is exceeded:

```
{
 "success": false,
 "message": "Too many requests from this IP, please try again later."
}
```

---

## Additional Notes

### CORS Configuration

- **Development:** All origins allowed ( \* )
- **Production:** Specific origins from `ALLOWED_ORIGINS` environment variable

### Timezone

All timestamps are in **IST (Indian Standard Time)** and follow ISO 8601 format.

### Pagination

Endpoints returning lists support pagination:

#### Query Parameters:

- `page` - Page number (default: 1)
- `limit` - Items per page (default: 20, max: 100)

#### Response:

```
{
 "success": true,
 "data": [...],
 "pagination": {
 "page": 1,
 "limit": 20,
 "total": 150,
 "totalPages": 8
 }
}
```

---

## Vehicle QR Generation

**POST** `/payments/admin/vehicle/:id/qr`

Generate Easebuzz virtual account QR code for a vehicle.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

**Response (201):**

```
{
 "success": true,
 "data": {
 "virtualAccountId": "VA123456789",
 "qrCodeBase64": "iVBORw0KGgoAAAANSUhEUgAA...",
 "upiId": "vehicle@easebuzz"
 }
}
```

**GET** `/payments/admin/vehicle/:id/qr`

Get existing QR code. Returns 404 if not found.

---

## Support

---

For API support and questions:

- **Email:** [gourav.singh@triborefin.com](mailto:gourav.singh@triborefin.com)
- **Documentation:** `/api-docs` (Coming Soon)
- **Health Check:** `/health`

## Payment System

Complete payment and payout system with Easebuzz integration.

**Base Path:** `/payment`

**Documentation:** See [Payment System Documentation](#) for complete details.

### Driver Endpoints

**GET** `/payment/balance`

Get driver balance & rental status.

**Authentication:** Required

**Roles:** `DRIVER`

**Response:**

```
{
 "depositBalance": 5000,
 "paymentModel": "RENTAL",
 "hasActiveRental": true,
 "rental": {
```

```
"planName": "Weekly Plan",
"startDate": "2025-12-23T00:00:00.000Z",
"expiryDate": "2025-12-30T00:00:00.000Z",
"daysRemaining": 3,
"isExpired": false
}
}
```

---

**GET** /payment/rental/plans

Get available rental plans for the driver's fleet.

**Authentication:** Required

**Roles:** DRIVER

**Response:**

```
{
 "success": true,
 "data": [
 {
 "id": "uuid",
 "name": "Weekly Plan",
 "rentalAmount": 3000,
 "depositAmount": 5000,
 "validityDays": 7,
 "isActive": true
 }
]
}
```

---

**GET** /payment/transactions

Get driver transaction history (paginated).

**Authentication:** Required

**Roles:** DRIVER

**Query Parameters:**

- `page` (number, default: 1)
- `limit` (number, default: 20)
- `type` (string, optional): DEPOSIT, RENTAL, TRIP\_PAYMENT, INCENTIVE, PENALTY, PAYOUT
- `status` (string, optional): PENDING, SUCCESS, FAILED
- `startDate` (string, optional): ISO date
- `endDate` (string, optional): ISO date

**Response:**

```
{
 "transactions": [
 {
 "id": "uuid",
```

```
 "type": "DEPOSIT",
 "amount": 5000,
 "status": "SUCCESS",
 "paymentMethod": "PG_UPI",
 "description": "Security deposit - ₹5000",
 "createdAt": "2025-12-23T10:00:00.000Z"
 }
],
"pagination": {
 "page": 1,
 "limit": 20,
 "total": 45,
 "totalPages": 3
}
}
```

### GET /payment/incentives

Get driver incentives.

**Authentication:** Required

**Roles:** DRIVER

#### Query Parameters:

- `isPaid` (boolean, optional)

#### Response:

```
{
 "incentives": [
 {
 "id": "uuid",
 "amount": 500,
 "reason": "Completed 50 trips",
 "category": "MILESTONE",
 "isPaid": false,
 "createdAt": "2025-12-25T00:00:00.000Z"
 }
],
 "summary": {
 "totalIncentives": 10,
 "paidIncentives": 7,
 "unpaidIncentives": 3,
 "totalAmount": 5000,
 "paidAmount": 3500,
 "unpaidAmount": 1500
 }
}
```

### GET /payment/penalties

Get driver penalties.

**Authentication:** Required

**Roles:** DRIVER

**Query Parameters:**

- `type` (string, optional): MONETARY, WARNING, SUSPENSION, BLACKLIST
- `isPaid` (boolean, optional)
- `isWaived` (boolean, optional)

**Response:**

```
{
 "penalties": [
 {
 "id": "uuid",
 "type": "MONETARY",
 "amount": 200,
 "reason": "Late for pickup",
 "isPaid": true,
 "isWaived": false,
 "deductedFromDeposit": true,
 "depositDeductionAmount": 200,
 "createdAt": "2025-12-24T00:00:00.000Z"
 }
]
}
```

---

**GET** `/payment/collections`

Get daily collections (for payout model drivers).

**Authentication:** Required

**Roles:** DRIVER

**Query Parameters:**

- `startDate` (string, optional): ISO date
- `endDate` (string, optional): ISO date
- `isReconciled` (boolean, optional)
- `isPaid` (boolean, optional)

**Response:**

```
{
 "collections": [
 {
 "id": "uuid",
 "date": "2025-12-29T00:00:00.000Z",
 "qrCollectionAmount": 3000,
 "cashCollectionAmount": 2000,
 "totalCollection": 5000,
 "revShareAmount": 3500,
 "incentiveAmount": 500,
 "penaltyAmount": 200,
 "netPayout": 3800,
 }
]
}
```

```
 "isReconciled": true,
 "isPaid": false
 }
],
 "summary": {
 "totalDays": 30,
 "totalCollections": 150000,
 "totalRevShare": 105000,
 "totalIncentives": 5000,
 "totalPenalties": 2000,
 "totalPayout": 108000,
 "paidAmount": 75000,
 "unpaidAmount": 33000
 }
}
```

---

**POST** `/payment/deposit`

Initiate deposit payment.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "amount": 5000
}
```

**Response:**

```
{
 "transactionId": "uuid",
 "paymentUrl": "https://testpay.easebuzz.in/pay/...",
 "txnId": "TXN_1735123456_ABC123"
}
```

---

**POST** `/payment/rental`

Initiate rental payment.

**Authentication:** Required

**Roles:** DRIVER

**Request Body:**

```
{
 "rentalPlanId": "uuid"
}
```

## Response:

```
{
 "transactionId": "uuid",
 "paymentUrl": "https://testpay.easebuzz.in/pay/...",
 "txnId": "TXN_1735123456_XYZ789"
}
```

**Admin Endpoints**  
##### POST Generate Easebuzz virtual account QR code for a vehicle.  
**Authentication:** Required  
**Roles:** ,  
**URL Parameters:**  
- uid=197609 (Hello Youtuber)  
- gid=197609  
- groups=197609 (string, required) - Vehicle UUID  
**Response (201):**  
- Notes: QR code is Base64 PNG. If QR exists, returns existing. Scannable with any UPI app.  
---  
##### GET Get existing QR code for a vehicle.  
**Authentication:** Required  
**Roles:** ,  
**Response (200):** Same as POST.  
**Response (404):** QR not found.  
---  
##### POST /payment/admin/rental-plans

Create a rental plan.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

## Request Body:

```
{
 "fleetId": "uuid",
 "name": "Weekly Plan",
 "rentalAmount": 3500,
 "depositAmount": 5000,
 "validityDays": 7
}
```

## Response:

```
{
 "id": "uuid",
 "fleetId": "uuid",
 "name": "Weekly Plan",
 "rentalAmount": 3500,
 "depositAmount": 5000,
 "validityDays": 7,
 "isActive": true
}
```

**GET** /payment/admin/rental-plans/:fleetId

Get rental plans for a fleet.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

**Query Parameters:**

- `activeOnly` (boolean, default: true)

---

**POST** `/payment/admin/penalty`

Create a penalty for a driver.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "driverId": "uuid",
 "type": "MONETARY",
 "amount": 500,
 "reason": "Customer complaint",
 "category": "BEHAVIOR"
}
```

**Penalty Types:**

- `MONETARY` - Financial penalty (auto-deducted from deposit for rental model)
- `WARNING` - Verbal/written warning
- `SUSPENSION` - Temporary suspension (requires `suspensionStartDate` and `suspensionEndDate` )
- `BLACKLIST` - Permanent ban

---

**POST** `/payment/admin/penalty/:id/waive`

Waive a penalty.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "waiverReason": "First-time offense, driver apologized"
}
```

---

**POST** `/payment/admin/incentive`

Create an incentive for a driver.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request Body:**

```
{
 "driverId": "uuid",
 "amount": 500,
 "reason": "Completed 50 trips this month",
}
```



```
 "category": "MILESTONE"
 }
```

---

**POST** `/payment/admin/incentive/:id/payout`

Process incentive payout.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Response:**

```
{
 "success": true,
 "txnId": "TXN_1735123456_PAY123",
 "status": "PENDING",
 "utr": "UTR123456789"
}
```

---

**POST** `/payment/admin/collection/:id/reconcile`

Reconcile daily collection.

**Authentication:** Required

**Roles:** `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

**Request Body:**

```
{
 "expectedRevenue": 5000,
 "reconciliationNotes": "All collections verified"
}
```

---

**POST** `/payment/admin/collection/:id/payout`

**DEPRECATED:** Use Bulk Payout instead.

Process daily payout (Legacy).

**Authentication:** Required **Roles:** `SUPER_ADMIN` , `OPERATIONS`

---

**POST** `/payment/admin/bulk-payout`

Upload CSV for automated bulk payouts.

**Authentication:** Required **Roles:** `SUPER_ADMIN` , `OPERATIONS`

**Request:** `multipart/form-data`

- `file` : CSV File ( `phone,amount` or `accountNumber,amount` )

**Response:**

```
{
 "total": 10,
 "success": 9,
 "failed": 1,
 "amountDisbursed": 45000,
 "details": [
 { "phone": "9876543210", "status": "SUCCESS", "amount": 5000, "utr": "UTR..." }
]
}
```

---

**GET** `/payment/admin/reconciliations/pending`

Get pending reconciliations.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

---

**GET** `/payment/admin/payouts/pending`

Get pending payouts.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

---

**POST** `/payment/admin/vehicle/:id/qr`

Generate virtual QR code for a vehicle.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response:**

```
{
 "id": "uuid",
 "vehicleId": "uuid",
 "virtualAccountId": "VA123456",
 "virtualAccountNumber": "1234567890123456",
 "ifscCode": "HDFC0000001",
 "qrCodeBase64": "data:image/png;base64,...",
 "upiId": "driversklub.va123456@easebuzz",
 "isActive": true
}
```

---

**GET** `/payment/admin/vehicle/:id/qr`

Get vehicle QR code.

**Authentication:** Required

**Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

---

## InstaCollect Orders (Dynamic QR)

These endpoints manage ad-hoc payment orders where a customer can pay via a dynamic QR code, supporting partial payments.

#### **POST** `/payment/orders`

Create a new payment order. This generates a unique virtual account and QR code.

**Authentication:** Required **Roles:** `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

##### **Request Body:**

```
{
 "customerName": "John Doe",
 "customerPhone": "9876543210",
 "customerEmail": "john@example.com",
 "description": "Invoice #1234",
 "amount": 5000
}
```

##### **Response:**

```
{
 "id": "uuid",
 "totalAmount": 5000,
 "collectedAmount": 0,
 "remainingAmount": 5000,
 "status": "PENDING",
 "virtualAccountId": "VA123456",
 "virtualAccountNumber": "1234567890",
 "ifscCode": "HDFC0000001",
 "qrCodeBase64": "data:image/png;base64,...",
 "upiId": "driversklub.va123456@easebuzz",
 "paymentLink": "https://testpay.easebuzz.in/pay/..."
}
```

---

#### **GET** `/payment/orders`

List payment orders.

**Authentication:** Required **Roles:** `SUPER_ADMIN` , `OPERATIONS` , `MANAGER`

##### **Query Parameters:**

- `status` (string, optional): `PENDING` , `PARTIAL` , `COMPLETED` , `FAILED`
- `search` (string, optional): Search by customer name or phone

##### **Response:**

```
{
 "orders": [
 {
 "id": "uuid",
 "customerName": "John Doe",
```

```
 "totalAmount": 5000,
 "collectedAmount": 2000,
 "remainingAmount": 3000,
 "status": "PARTIAL",
 "createdAt": "2025-12-30T10:00:00Z"
 }
]
```

#### GET /payment/orders/:id

Get detailed order information including transaction history.

**Authentication:** Required **Roles:** SUPER\_ADMIN , OPERATIONS , MANAGER

#### Response:

```
{
 "id": "uuid",
 "customerName": "John Doe",
 "totalAmount": 5000,
 "collectedAmount": 2000,
 "remainingAmount": 3000,
 "status": "PARTIAL",
 "transactions": [
 {
 "id": "tx_1",
 "amount": 2000,
 "status": "SUCCESS",
 "createdAt": "2025-12-30T10:05:00Z",
 "easebuzzTxnId": "TXN123"
 }
]
}
```

### Rapido (Fleet)

Webhook callbacks from Rapido Fleet API.

#### POST /rapido/webhook/order-status

Callback for Rapido order status updates.

**Authentication:** None (Public/Webhook)

#### Request Body:

```
{
 "orderId": "rapido_order_123",
 "status": "started",
 "captainId": "cap_123",
}
```

```
 "timestamp": "2025-12-30T10:00:00Z"
 }
```

**Response:**

```
{
 "success": true,
 "message": "Order status updated"
}
```

---

**POST** `/rapido/webhook/captain-status`

Callback for Captain login/availability status.

**Authentication:** None (Public/Webhook)

**Request Body:**

```
{
 "captainId": "cap_123",
 "status": "online",
 "location": { "lat": 28.5, "lng": 77.1 }
}
```

**Response:**

```
{
 "success": true,
 "message": "Captain status updated"
}
```

---