

# React Admin Dashboard - API Integration Guide (Production)

**Target Audience:** Web Frontend Team

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

**Base URL (Development):** `http://localhost:5000`

**Auth:** Requires `Authorization: Bearer <TOKEN>` with Role `SUPER_ADMIN` or `OPERATIONS`

**Version:** 3.1.0

**Last Updated:** December 30, 2025

---

## Table of Contents

1. [Authentication](#)
  2. [Dispatch & Trip Operations](#)
  3. [Fleet & Asset Management](#)
  4. [Operations & Assignments](#)
  5. [User Management](#)
  6. [Pricing Calculator](#)
  7. [Frontend Implementation Notes](#)
- 

## 1. Authentication

### 1.1 Admin Login Flow

Same as driver authentication but requires `SUPER_ADMIN` or `OPERATIONS` role.

**Endpoint:** `POST /auth/verify-otp`

**Response:**

```
{  
  "success": true,  
  "data": {  
    "accessToken": "eyJ...","  
    "refreshToken": "def...","  
    "user": {  
      "id": "uuid",  
      "role": "SUPER_ADMIN"  
    }  
  }  
}
```

**Action:** Check `user.role`. Redirect to dashboard only if `SUPER_ADMIN` or `OPERATIONS`.

---

## 2. Dispatch & Trip Operations

### 2.1 Create New Trip

**Endpoint:** POST /trips

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Request Body:

```
{  
    "tripType": "AIRPORT",  
    "originCity": "Delhi",  
    "destinationCity": "Gurgaon",  
    "pickupLocation": "T3 Terminal, Gate 4",  
    "pickupLat": 28.5562,  
    "pickupLng": 77.1000,  
    "dropLocation": "Cyber Hub, Gurgaon",  
    "pickupTime": "2025-12-25T10:00:00Z",  
    "vehicleSku": "EV_SEDAN",  
    "distanceKm": 45  
}
```

#### [!IMPORTANT] Strict Trip Constraints:

- **Start Window:** Driver can only start trip **2.5 Hours** before pickup
- **Geofence:** `pickupLat` & `pickupLng` are **MANDATORY** for the app to allow "Arrived" status (500m radius)
- **T-1 Constraint:** `pickupTime` must be > 24 hours from now

#### Response (201):

```
{  
    "success": true,  
    "data": {  
        "id": "uuid",  
        "status": "CREATED",  
        "price": 1200,  
        "tripType": "AIRPORT",  
        "pickupTime": "2025-12-25T10:00:00Z"  
    }  
}
```

## 2.2 List All Trips (Grid View)

**Endpoint:** GET /admin/trips

**Role:** SUPER\_ADMIN

#### Query Params:

- `page` (default: 1)
- `limit` (default: 10)
- `status` (optional): Filter by status (e.g., `CREATED` , `DRIVER_ASSIGNED` , `STARTED` )

#### Response (200):

```
{
  "success": true,
  "data": {
    "trips": [
      {
        "id": "uuid",
        "tripType": "AIRPORT",
        "pickupLocation": "T3 Terminal",
        "dropLocation": "Cyber Hub",
        "pickupTime": "2025-12-25T10:00:00Z",
        "status": "CREATED",
        "price": 1200,
        "driver": null
      }
    ],
    "total": 150,
    "page": 1,
    "limit": 10
  }
}
```

## 2.3 Assign Driver (Dispatch)

**Endpoint:** POST /admin/trips/assign

**Role:** SUPER\_ADMIN

**Description:** The core action of the dashboard. Logic: "Select Trip → Select Driver → Assign"

**Request Body:**

```
{
  "tripId": "uuid-trip-id",
  "driverId": "uuid-driver-id"
}
```

**Response (200):**

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

**Side Effects:**

1. Updates Trip Status → DRIVER\_ASSIGNED
2. Creates TripAssignment record (transactional)
3. Pushes Notification to Driver App
4. If MMT Trip, pushes Webhook to MMT ( /driver-assigned )

## 2.4 Unassign Driver

**Endpoint:** POST /admin/trips/unassign

**Role:** SUPER\_ADMIN

**Description:** Force cancel/detach driver from trip

**Request Body:**

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

**Response (200):**

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

**Side Effects:**

- Status: DRIVER\_ASSIGNED → CREATED
- If MMT Trip, triggers /detach-trip webhook

## 2.5 Reassign Driver

**Endpoint:** POST /admin/trips/reassign

**Role:** SUPER\_ADMIN

**Description:** Change assigned driver (e.g., when driver cancels or car breaks down)

**Request Body:**

```
{  
  "tripId": "uuid",  
  "driverId": "uuid-new-driver"  
}
```

**Response (200):**

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

**Side Effects:**

- If MMT Trip, triggers /reassign-chauffeur webhook

## 3. Fleet & Asset Management

### 3.1 Fleets (Operators)

## Create Fleet

**Endpoint:** POST /fleets

**Role:** SUPER\_ADMIN

### Request Body:

```
{  
  "name": "Delhi Cabs Pvt Ltd",  
  "mobile": "9999988888",  
  "city": "DELHI",  
  "fleetType": "COMPANY",  
  "panNumber": "ABCDE1234F"  
}
```

### Response (201):

```
{  
  "success": true,  
  "data": {  
    "id": "uuid",  
    "name": "Delhi Cabs Pvt Ltd",  
    "city": "DELHI"  
  }  
}
```

## List Fleets

**Endpoint:** GET /fleets

**Roles:** SUPER\_ADMIN , OPERATIONS

### Response (200):

```
{  
  "success": true,  
  "data": [  
    {  
      "id": "uuid",  
      "name": "Delhi Cabs Pvt Ltd",  
      "city": "DELHI",  
      "fleetType": "COMPANY",  
      "status": "ACTIVE"  
    }  
  ]  
}
```

## Get Fleet Details

**Endpoint:** GET /fleets/:id

**Roles:** SUPER\_ADMIN , OPERATIONS

## Deactivate Fleet

**Endpoint:** PATCH /fleets/:id/deactivate

**Role:** SUPER\_ADMIN

## 3.2 Vehicles (Cars)

### Add Vehicle

**Endpoint:** POST /vehicles

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Request Body:

```
{  
  "fleetId": "uuid-fleet-id",  
  "vehicleNumber": "DL10CA1234",  
  "vehicleName": "Tata Tigor EV",  
  "fuelType": "ELECTRIC",  
  "ownership": "OWNED"  
}
```

#### Response (201):

```
{  
  "success": true,  
  "data": {  
    "id": "uuid",  
    "vehicleNumber": "DL10CA1234",  
    "vehicleName": "Tata Tigor EV"  
  }  
}
```

### List Vehicles by Fleet

**Endpoint:** GET /vehicles/fleet/:fleetId

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

#### Response (200):

```
{  
  "success": true,  
  "data": [  
    {  
      "id": "uuid",  
      "vehicleNumber": "DL10CA1234",  
      "vehicleName": "Tata Tigor EV",  
      "fuelType": "ELECTRIC",  
      "status": "ACTIVE"  
    }  
  ]  
}
```

```
]  
}
```

### Update Vehicle Documents

**Endpoint:** PATCH /vehicles/:id/docs

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Request Body:

```
{  
  "rcUrl": "https://s3.amazonaws.com/rc.pdf",  
  "insuranceUrl": "https://s3.amazonaws.com/insurance.pdf"  
}
```

### Update Vehicle Status

**Endpoint:** PATCH /vehicles/:id/status

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Request Body:

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

#### Status Values:

- ACTIVE - Vehicle is operational
- INACTIVE - Vehicle temporarily unavailable
- MAINTENANCE - Vehicle under maintenance

### Deactivate Vehicle

**Endpoint:** PATCH /vehicles/:id/deactivate

**Roles:** SUPER\_ADMIN , OPERATIONS

---

## 3.3 Drivers (Profiles)

### Onboard Driver

**Endpoint:** POST /drivers

**Roles:** SUPER\_ADMIN , OPERATIONS

#### Request Body:

```
{  
  "fleetId": "uuid-fleet-id",  
  "firstName": "Raj",  
  "lastName": "Kumar",  
  "mobile": "9812345678",  
  "licenseNumber": "DL-12345-67890",  
}
```

```
"email": "raj@example.com"  
}
```

#### Response (201):

```
{  
  "success": true,  
  "data": {  
    "id": "uuid",  
    "firstName": "Raj",  
    "lastName": "Kumar",  
    "mobile": "9812345678"  
  }  
}
```

### List Drivers by Fleet

**Endpoint:** GET /drivers/fleet/:fleetId

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

#### Response (200):

```
{  
  "success": true,  
  "data": [  
    {  
      "id": "uuid",  
      "firstName": "Raj",  
      "lastName": "Kumar",  
      "mobile": "9812345678",  
      "status": "ACTIVE",  
      "kycStatus": "APPROVED"  
    }  
  ]  
}
```

### Get Driver Details

**Endpoint:** GET /drivers/:id

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

## 4. Operations & Assignments

### 4.1 Approve Attendance

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

**Roles:** SUPER\_ADMIN , MANAGER

**Description:** Admins review selfies and odometer readings before approving the shift

**Request Body:**

```
{  
  "remarks": "Approved by Ops"  
}
```

#### Response (200):

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

**Action:** Validates Driver's selfie time/location. Rejection is also possible via `/attendance/:id/reject`.

## 4.2 Daily Vehicle Assignment (Roster)

**Endpoint:** POST `/assignments`

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

**Description:** Link a driver to a car for the day

#### Request Body:

```
{  
  "driverId": "uuid-driver",  
  "vehicleId": "uuid-vehicle",  
  "fleetId": "uuid-fleet"  
}
```

#### Response (201):

```
{  
  "success": true,  
  "data": {  
    "id": "uuid",  
    "driverId": "uuid",  
    "vehicleId": "uuid",  
    "startDate": "2025-12-25T00:00:00Z"  
  }  
}
```

**Goal:** Driver cannot receive trips without this active link.

## 4.3 Get Assignments by Fleet

**Endpoint:** GET `/assignments/fleet/:fleetId`

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

#### Response (200):

```
{
  "success": true,
  "data": [
    {
      "id": "uuid",
      "driver": {
        "firstName": "Raj",
        "lastName": "Kumar"
      },
      "vehicle": {
        "vehicleNumber": "DL10CA1234"
      },
      "startDate": "2025-12-25T00:00:00Z",
      "status": "ACTIVE"
    }
  ]
}
```

## 4.4 End Assignment

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

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

# 5. User Management

## 5.1 Create User

**Endpoint:** POST /users

**Role:** SUPER\_ADMIN

### Request Body:

```
{
  "phone": "9876543210",
  "role": "DRIVER",
  "name": "Raj Kumar"
}
```

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

## 5.2 List All Users

**Endpoint:** GET /users

**Roles:** SUPER\_ADMIN , OPERATIONS

## 5.3 Deactivate User

**Endpoint:** PATCH /users/:id/deactivate

**Role:** SUPER\_ADMIN

---

## 6. Pricing Calculator

### 6.1 Preview Pricing

**Endpoint:** POST /pricing/preview

**Auth Required:** No

**Description:** "Get Estimate" button on Create Trip form

**Request Body:**

```
{  
  "distanceKm": 45,  
  "tripType": "AIRPORT"  
}
```

**Response (200):**

```
{  
  "success": true,  
  "data": {  
    "baseFare": 800,  
    "distanceCharge": 400,  
    "totalFare": 1200,  
    "breakdown": {  
      "minBillableKm": 40,  
      "ratePerKm": 20  
    }  
  }  
}
```

**Use Case:** Show fare before booking to set customer expectations.

---

## 7. Frontend Implementation Notes

### 7.1 CORS

- **Current:** Configured to allow all origins ( \* )
- **Production:** Whitelist specific domains

### 7.2 Date Handling

- Use `date-fns` or `moment` to parse UTC ISO strings from API
- **Always display in User's Local Time**
- Store in UTC, display in local

```
import { format, parseISO } from 'date-fns';  
  
const displayTime = format(parseISO(trip.pickupTime), 'PPpp');  
// Output: "Dec 25, 2025, 10:00 AM"
```

## 7.3 State Management

### Recommendations:

- Cache `Fleets` and `Drivers` lists (TanStack Query recommended) as they change infrequently
- Poll `Trips` list (every 30s) or use a "Refresh" button for operations
- Handle `401 Unauthorized` by redirecting to Login
- Implement optimistic updates for better UX

### Example with TanStack Query:

```
const { data: trips } = useQuery({
  queryKey: ['trips', { status, page }],
  queryFn: () => fetchTrips({ status, page }),
  refetchInterval: 30000, // 30 seconds
});
```

## 7.4 Error Handling

```
try {
  await assignDriver(tripId, driverId);
  toast.success('Driver assigned successfully');
} catch (error) {
  if (error.response?.status === 401) {
    // Redirect to login
    router.push('/login');
  } else {
    toast.error(error.response?.data?.message || 'Failed to assign driver');
  }
}
```

## 7.5 Role-Based UI

```
const canCreateTrip = ['SUPER_ADMIN', 'OPERATIONS'].includes(user.role);
const canApproveAttendance = ['SUPER_ADMIN', 'MANAGER'].includes(user.role);

{canCreateTrip && <Button onClick={openCreateTripModal}>Create Trip</Button>}
```

## 7.6 Pagination Component

```
<Pagination
  currentPage={page}
  totalPages={Math.ceil(total / limit)}
  onPageChange={setPage}
/>
```

## 7.7 Status Badge Component

```

const getStatusColor = (status) => {
  switch (status) {
    case 'CREATED': return 'gray';
    case 'DRIVER_ASSIGNED': return 'blue';
    case 'STARTED': return 'yellow';
    case 'COMPLETED': return 'green';
    case 'CANCELLED': return 'red';
    default: return 'gray';
  }
};

<Badge color={getStatusColor(trip.status)}>{trip.status}</Badge>

```

## 7.8 Real-time Updates (Optional)

Consider implementing WebSocket connection for real-time trip status updates:

```

const socket = io('wss://driversklub-backend.onrender.com');

socket.on('trip:updated', (trip) => {
  queryClient.setQueryData(['trip', trip.id], trip);
});

```

## Checklist for Production

- Implement token refresh logic
- Add role-based access control to UI
- Implement pagination for all list views
- Add loading states for all API calls
- Add error handling with user-friendly messages
- Implement date/time formatting (UTC → Local)
- Add confirmation dialogs for destructive actions
- Implement search/filter functionality
- Add export to CSV functionality
- Test all edge cases (empty states, errors, etc.)

## 8. Payment System (Admin)

### 8.1 Create Rental Plan

**Endpoint:** POST /payment/admin/rental-plans

**Roles:** SUPER\_ADMIN , OPERATIONS

**Request Body:**

```
{
  "fleetId": "uuid",
}
```

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

#### Response (201):

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

## 8.2 Get Rental Plans

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

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

#### Query Parameters:

- activeOnly (boolean, default: true)

## 8.3 Create Penalty

**Endpoint:** POST /payment/admin/penalty

**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

#### Response (201):

```
{  
  "id": "uuid",  
  "driverId": "uuid",  
  "type": "MONETARY",  
  "amount": 500,  
  "reason": "Customer complaint",  
  "isPaid": true,  
  "deductedFromDeposit": true  
}
```

## 8.4 Waive Penalty

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

**Roles:** SUPER\_ADMIN , OPERATIONS

### Request Body:

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

### Response (200):

```
{  
  "success": true,  
  "message": "Penalty waived successfully"  
}
```

### Side Effects:

- Refunds deposit if already deducted
- Reverses suspension/blacklist status

## 8.5 Create Incentive

**Endpoint:** POST /payment/admin/incentive

**Roles:** SUPER\_ADMIN , OPERATIONS

### Request Body:

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

### Response (201):

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

## 8.6 Process Incentive Payout

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

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response (200):**

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

**Note:** Sends money to driver's bank account via Easebuzz

## 8.7 Reconcile Daily Collection

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

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

**Request Body:**

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

**Response (200):**

```
{  
  "success": true,  
  "message": "Collection reconciled successfully"  
}
```

**Side Effects:**

- Calculates revenue share
- Applies incentives and penalties
- Prepares for payout

## 8.8 Process Daily Payout

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

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response (200):**

```
{  
  "success": true,  
  "txnId": "TXN_1735123456_PAY456",  
  "status": "SUCCESS",  
  "utr": "UTR987654321",  
  "amount": 3800  
}
```

**Note:** Sends payout to driver's bank account

---

## 8.9 Get Pending Reconciliations

**Endpoint:** GET /payment/admin/reconciliations/pending

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

**Response (200):**

```
{  
  "reconciliations": [  
    {  
      "id": "uuid",  
      "driver": {  
        "firstName": "Raj",  
        "lastName": "Kumar"  
      },  
      "date": "2025-12-29T00:00:00.000Z",  
      "totalCollection": 5000,  
      "isReconciled": false  
    }  
  ]  
}
```

---

## 8.10 Get Pending Payouts

**Endpoint:** GET /payment/admin/payouts/pending

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response (200):**

```
{  
  "payouts": [  
    {  
      "id": "uuid",  
      "amount": 1000,  
      "date": "2025-12-29T00:00:00.000Z",  
      "driver": {  
        "firstName": "Raj",  
        "lastName": "Kumar"  
      },  
      "status": "PENDING"  
    }  
  ]  
}
```

```

    "driver": {
        "firstName": "Raj",
        "lastName": "Kumar",
        "bankAccountNumber": "1234567890"
    },
    "date": "2025-12-29T00:00:00.000Z",
    "netPayout": 3800,
    "isPaid": false
}
]
}

```

## 8.11 Generate Vehicle QR Code

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

**Roles:** SUPER\_ADMIN , OPERATIONS

**Response (201):**

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

**Use Case:** Generate QR code for vehicle to accept payments

## 8.12 Get Vehicle QR Code

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

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

**Response (200):**

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