

# Backend Documentation for Logistics App

## Logistics Driver App – Backend Specification (v1)

**Tech Stack:** Spring Boot, JPA/Hibernate, MySQL

**Clients:** Driver Android App

**Authentication:** OTP → JWT

**Base URL:** /api/v1

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### 1. API Documentation

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#### Module: Authentication

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##### 1.1 Request OTP

###### Description

Sends an OTP to the user's phone number to start the login process.

###### Endpoint

**Method:** POST

**URL:** /api/v1/auth/otp/request

**table URL:** http://43.205.235.73:8080/api/v1/auth/otp/request

**Authentication:** Not Required

**Content-Type:** application/json

###### Request JSON

```
1 {
2   "countryCode": "+91",
3   "phoneNumber": "{{phoneNumber}}"
4 }
```

###### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "message": "OTP sent successfully."
5   }
6 }
```

###### Notes

- First step of authentication.
- OTP is sent via SMS to the given phone number.

###### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## 1.2 Verify OTP

### Description

Verifies the OTP sent to the user's phone number. On success, returns a JWT token along with onboarding status and step.

### Endpoint

**Method:** POST

**URL:** /api/v1/auth/otp/verify

**table URL:** http://43.205.235.73:8080/api/v1/auth/otp/verify

**Authentication:** Not Required

**Content-Type:** application/json

### Request JSON

```
1 {
2   "countryCode": "+91",
3   "phoneNumber": "{{phoneNumber}}",
4   "otp": "1234",
5   "preferredLanguageCode": "EN"
6 }
```

### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "token": "jwt-token",
5     "onboardingStatus": "IN_PROGRESS",
6     "onboardingStep": "OWNER"
7   }
8 }
```

### Notes

- The returned JWT must be sent as **Authorization: Bearer <token>** for protected APIs.
- OTP is single-use and time-limited.
- **preferredLanguageCode** sets or confirms the user's language (EN, TA, HI).

### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## 1.3 Logout

### Description

Logs out the current user by revoking the active JWT token.

### Endpoint

**Method:** POST

**URL:** /api/v1/auth/logout

**table URL:** http://43.205.235.73:8080/api/v1/auth/logout

**Authentication:** Required (Bearer Token)

### Request JSON

*No body.*

### Success Response – 200 OK

```
1 {
2   "success": true,
3   "message": "Logged out successfully."
4 }
```

#### Notes

- The same token cannot be used again after logout.

#### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## Module: App State

### 2.1 Get App State

#### Description

Indicates which screen the app should open next based on the user's current onboarding progress (Owner, Vehicle, or Driver).

#### Endpoint

**Method:** GET

**URL:** `/api/v1/app/state`

**table URL:** `http://43.205.235.73:8080/api/v1/app/state`

**Authentication:** Required (Bearer Token)

#### Request JSON

*No body.*

#### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "onboardingStatus": "IN_PROGRESS",
5     "driverStatus": "OFFLINE",
6     "nextScreen": "owner_details",
7     "preferredLanguage": "EN"
8   }
9 }
```

#### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## Module: User Preferences

### 3.1 Update Preferred Language

#### Description

Updates the authenticated user's preferred language.

Endpoint

**Method:** POST

**URL:** /api/v1/users/language

**table URL:** http://43.205.235.73:8080/api/v1/users/language

**Authentication:** Required (Bearer Token)

Request JSON

```
1 {  
2   "phoneNumber": "{{phoneNumber}}",  
3   "preferredLanguage": "TA"  
4 }
```

**Enum:**

- Updates the user's preferred language in their profile.
- **Accepted language enum values (case-sensitive):**
  - **EN** → English
  - **TA** → Tamil
  - **HL** → Hindi

Success Response – 200 OK

```
1 {  
2   "success": true,  
3   "data": {  
4     "success": true,  
5     "preferredLanguage": "TA"  
6   }  
7 }
```

Notes

- Phone number must match the logged-in user.

Error Response – 500 Internal Server Error

```
1 {  
2   "success": false,  
3   "message": "Service is unavailable.",  
4   "errorCode": "SERVICE_UNAVAILABLE"  
5 }
```

---

## Module: Onboarding – Owner

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### 4.1 Save Owner

Description

Saves or updates vehicle owner details (Onboarding Step 1).

Endpoint

**Method:** POST

**URL:** /api/v1/onboarding/owner

**table URL:** http://43.205.235.73:8080/api/v1/onboarding/owner

**Authentication:** Required (Bearer Token)

Request JSON

```
1 {  
2   "name": "Owner Name",  
3   "ownerSelfieUrl": "url",
```

```
4   "ownerAdharUrl":"url",
5   "ownerPanUrl":"url"
6 }
```

Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "name": "Owner Name",
6     "ownerSelfieDocumentId": 1,
7     "ownerAdharDocumentId": 2,
8     "ownerPanDocumentId": 3,
9     "createdAt": "2026-02-10T15:02:50.882311Z",
10    "updatedAt": "2026-02-10T15:03:49.000980100Z"
11  }
12 }
```

Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## 4.2 Get Owner

### Description

Returns saved owner details for the authenticated user.

### Endpoint

**Method:** GET

**URL:** /api/v1/onboarding/owner

**table URL:** http://43.205.235.73:8080/api/v1/onboarding/owner

**Authentication:** Required (Bearer Token)

### Request JSON

*No body.*

Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "name": "Owner Name",
6     "ownerSelfieDocumentId": 1,
7     "ownerAdharDocumentId": 2,
8     "ownerPanDocumentId": 3,
9     "createdAt": "2026-02-10T15:02:50.882311Z",
10    "updatedAt": "2026-02-10T15:03:49.000980100Z"
11  }
12 }
```

Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

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## Module: Onboarding – Vehicle

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## 5.1 Save Vehicle

### Description

Saves or updates vehicle details (Onboarding Step 2).

### Endpoint

**Method:** POST

**URL:** `/api/v1/onboarding/vehicle`

**table URL:** `http://43.205.235.73:8080/api/v1/onboarding/vehicle`

**Authentication:** Required (Bearer Token)

### Request JSON

```
1 {
2   "registrationNumber": "TN23AB1234",
3   "vehicleType": "TRUCK",
4   "bodyType": "OPEN",
5   "bodySpec": "EIGHT_FT_1_5_TON",
6   "rcUrl": "url",
7   "insuranceUrl": "url",
8   "pucUrl": "url"
9 }
```

### Description (Important for Frontend)

#### 1 Vehicle Type ( `vehicleType` )

- **Enum value must be sent to backend**
- Frontend may display localized labels using language selection

#### Allowed enum values:

- `TRUCK`
- `MINI_TRUCK`
- `THREE_WHEELER`
- `PICKUP`

#### Display names by language:

Enum Value	EN	TA	HI
TRUCK	Truck	டிரக்	ट्रक
MINI_TRUCK	Mini Truck	மினி டிரக்	मिनी ट्रक
THREE_WHEELER	Three Wheeler	மூன்று சக்கர வாகனம்	तीन पहिया
PICKUP	Pickup	பிக்கப்	पिकअप

#### Body Type ( `bodyType` )

- Defines the vehicle body structure

#### Allowed enum values:

- `OPEN`
- `CLOSED`
- `SEMI_OPEN`

#### Display names by language:

Enum Value	EN	TA	HI
OPEN	Open	திறந்த	खुला
CLOSED	Closed	மூடிய	बंद
SEMI_OPEN	Semi Open	அரை திறந்த	अर्ध खुला

#### 3 Body Specification ( bodySpec )

- Defines vehicle size and load capacity
- Stored as enum name in database

#### Allowed enum values:

- EIGHT\_FT\_1\_5\_TON
- FOURTEEN\_FT\_3\_5\_TON
- SEVENTEEN\_FT\_4\_5\_TON
- NINETEEN\_FT\_6\_TON

#### Display names by language:

Enum Value	EN	TA	HI
EIGHT_FT_1_5_TON	8 ft / 1.5 Ton	8 அடி / 1.5 டன்	8 फीट / 1.5 टन
FOURTEEN_FT_3_5_TON	14 ft / 3.5 Ton	14 ft / 3.5 Ton	14 फीट / 3.5 टन
SEVENTEEN_FT_4_5_TON	17 ft / 4.5 Ton	17 அடி / 4.5 டன்	17 फीट / 4.5 टन
NINETEEN_FT_6_TON	19 ft / 6 Ton	19 அடி / 6 டன்	19 फीट / 6 टन

#### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "registrationNumber": "TN23AB1234",
6     "city": "Vellore",
7     "vehicleType": "Truck",
8     "bodyType": "Open",
9     "bodySpec": "8 ft / 1.5 Ton",
10    "rcDocumentId": 4,
11    "createdAt": "2026-02-10T15:06:20.790678900Z",
12    "updatedAt": "2026-02-10T15:06:20.790678900Z"
13  }
14 }
```

#### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

## 5.2 Get Vehicle

### Description

Returns saved vehicle details.

### Endpoint

**Method:** GET

**URL:** `/api/v1/onboarding/vehicle`

**table URL:** `http://43.205.235.73:8080//api/v1/onboarding/vehicle`

**Authentication:** Required (Bearer Token)

### Request JSON

*No body.*

### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "registrationNumber": "TN23AB1234",
6     "city": "Vellore",
7     "vehicleType": "Truck",
8     "bodyType": "Open",
9     "bodySpec": "8 ft / 1.5 Ton",
10    "rcDocumentId": 4,
11    "createdAt": "2026-02-10T15:06:20.790679Z",
12    "updatedAt": "2026-02-10T15:06:20.829394Z"
13  }
14 }
```

### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## Module: Onboarding – Driver

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### 6.1 Save Driver

#### Description

Saves or updates driver details (Onboarding Step 3).

#### Endpoint

**Method:** POST

**URL:** `/api/v1/onboarding/driver`

**table URL:** `http://43.205.235.73:8080/api/v1/onboarding/driver`

**Authentication:** Required (Bearer Token)

#### Request JSON





```
1 {
2   "isSelfDriving": false,
3   "name": "Driver Name",
4   "phoneNumber": "9876543210",
5   "driverLicenseUrl": "url"
6 }
```



## Description (Conditional Logic)

- `isSelfDriving` indicates whether the vehicle owner is driving the vehicle themselves.

### Validation Rules

- If `isSelfDriving = true`
  -  `name` is NOT required
  -  `phoneNumber` is NOT required
  - Driver details will be auto-mapped to the owner.
- If `isSelfDriving = false`
  -  `name` is REQUIRED
  -  `phoneNumber` is REQUIRED
  - These details represent the assigned driver

### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "name": "Driver Name",
6     "phoneNumber": "9922333446",
7     "isSelfDriving": false,
8     "driverLicenseDocumentId": 5,
9     "onboardingStep": "SUBMITTED",
10    "verificationStatus": "IN_PROGRESS"
11  }
12 }
```

### Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

---

## 6.2 Get Driver

### Description

Returns saved driver details.

### Endpoint

**Method:** GET

**URL:** `/api/v1/onboarding/driver`

**table URL:** `http://43.205.235.73:8080/api/v1/onboarding/driver`

**Authentication:** Required (Bearer Token)

### Request JSON

*No body.*

### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "id": 1,
5     "name": "Driver Name",
6     "phoneNumber": "9876543210",
7     "verificationStatus": "IN_PROGRESS"
8   }
9 }
```

## Error Response – 500 Internal Server Error

```
1 {
2   "success": false,
3   "message": "Service is unavailable.",
4   "errorCode": "SERVICE_UNAVAILABLE"
5 }
```

## Module: Meta

### 7.1 Get Vehicle Form Options

#### Description

Returns dropdown options for vehicle onboarding forms, localized by user language.

#### Endpoint

**Method:** GET

**URL:** `/api/v1/meta/vehicle-form-options`

**table URL:** `http://43.205.235.73:8080/api/v1/meta/vehicle-form-options`

**Authentication:** Required (Bearer Token)

#### Request JSON

*No body.*

#### Success Response – 200 OK

```
1 {
2   "success": true,
3   "data": {
4     "vehicleTypes": [
5       {
6         "id": 1,
7         "code": "TRUCK",
8         "displayName": "டிரக்"
9       },
10      {
11        "id": 2,
12        "code": "MINI_TRUCK",
13        "displayName": "மினி டிரக்"
14      },
15      {
16        "id": 3,
17        "code": "THREE_WHEELER",
18        "displayName": "மூன்று சக்கர வாகனம்"
19      },
20      {
21        "id": 4,
22        "code": "PICKUP",
23        "displayName": "பிக்கப்"
24      }
25    ],
26    "bodyTypes": [
27      {
28        "id": 1,
29        "code": "OPEN",
30        "displayName": "திறந்த"
31      },
32      {
33        "id": 2,
34        "code": "CLOSED",
35        "displayName": "மூடிய"
36      },
37      {
38        "id": 3,
39        "code": "SEMI_OPEN",
40        "displayName": "அரை திறந்த"
41      }
42    ],
43    "bodySpecs": [
44      {
45        "id": 1,
46        "code": "EIGHT_FT_1_5_TON",
47        "displayName": "8 அடி / 1.5 டன்"
```

```

48     },
49     {
50         "id": 2,
51         "code": "FOURTEEN_FT_3_5_TON",
52         "displayName": "14 ᐅᐱᓂ / 3.5 ᐱᐅᓂ"
53     },
54     {
55         "id": 3,
56         "code": "SEVENTEEN_FT_4_5_TON",
57         "displayName": "17 ᐅᐱᓂ / 4.5 ᐱᐅᓂ"
58     },
59     {
60         "id": 4,
61         "code": "NINETEEN_FT_6_TON",
62         "displayName": "19 ᐅᐱᓂ / 6 ᐱᐅᓂ"
63     }
64 ]
65 }
66 }

```

#### Error Response – 500 Internal Server Error

```

1  {
2    "success": false,
3    "message": "Service is unavailable.",
4    "errorCode": "SERVICE_UNAVAILABLE"
5  }

```