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Zoox Robo-Taxi
Payment Gateway API Guide

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1. Introduction

The Zoox Robo-Taxi Payment Gateway provides APIs to request ride quotes, tokenize payment methods, authorize pre-payments, book rides, capture final fares, and process refunds. It supports webhook notifications for ride and payment events.

Base URLs

Environment	Base URL
Sandbox	https://api.sandbox.zoox.com/pay
Production	https://api.zoox.com/pay

2. Getting Started

Authentication is based on OAuth 2.0. Obtain a Bearer token using Client Credentials or Authorization Code with PKCE. All requests require TLS 1.2+.

Request Headers

Header	Description
Authorization	Bearer <access_token>
Idempotency-Key	Unique UUID for POST requests
Content-Type	application/json

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3. Endpoints

3.1 Create Quote

Request ride estimate between pickup and dropoff.

Parameter	Type	Required	Description
pickup.lat	float	Yes	Latitude of pickup location
pickup.lon	float	Yes	Longitude of pickup location
dropoff.lat	float	Yes	Latitude of dropoff location
dropoff.lon	float	Yes	Longitude of dropoff location
service_level	string	Yes	Ride type (standard, premium)

Example Request

POST /quotes

Authorization: Bearer <token>

Content-Type: application/json

```
{
 "pickup": {"lat":37.7749,"lon":-122.4194},
 "dropoff": {"lat":37.7869,"lon":-122.4041},
 "service_level": "standard"
}
```

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Example Response

```
{
 "id": "qt_123",
 "fare_min": {"currency":"USD","amount":2500},
 "fare_max": {"currency":"USD","amount":4200},
 "eta_seconds": 240,
 "expires_at": "2025-09-04T15:00:00Z"
}
```

4. Error Codes & Troubleshooting

HTTP Code	Error Code	Meaning	Action
400	invalid_parameter	Missing or invalid field	Check request JSON and retry
401	unauthorized	Invalid or expired token	Refresh token and retry
402	payment_declined	Card declined or auth failed	Prompt user for another method
404	not_found	Resource not found	Verify ID and retry
409	quote_expired	Quote expired	Request new quote
429	rate_limit	Too many requests	Retry with backoff

5. Test Data

Visa: 4242 4242 4242 4242, any future exp, CVC 123

Decline: amount % 7 == 0 (sandbox rule)

Webhook simulation: POST /test/webhooks

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6. Appendix: Ride Lifecycle

The ride progresses through the following statuses:

Status	Description
created	Ride request created
assigning	Searching for available vehicle
assigned	Vehicle assigned to rider
enroute_pickup	Vehicle driving to pickup location
arriving	Vehicle has arrived at pickup
in_progress	Ride is ongoing
completed	Ride completed successfully
canceled	Ride canceled by rider or system