NinexGroup Backend Documentation

Overview

```
• Stack: Node.js + Express + MongoDB (Mongoose)
```

- Entrypoint: index.js
- Config: config/db.js
- Auth: JWT (x-auth-token or Authorization: Bearer) and API Key (x-api-key)
- Background Jobs: Hourly settlement job (jobs/settlementJob.js)

Setup

- 1. Install dependencies: npm install
- 2. Configure environment: create .env with keys below
- 3. Run dev: npm run dev
- 4. Run prod: npm start

Environment Variables

Do not commit secrets. Required keys (values redacted):

- MONGO_URI MongoDB connection string
- JWT_SECRET � JWT signing secret
- FRONTEND_URL Frontend base URL for redirects
- BACKEND_URL � API base URL
- CASHFREE_BASE_URL , CASHFREE_APP_ID , CASHFREE_SECRET_KEY , CASHFREE_PAYOUT_URL
- RAZORPAY_KEY_ID , RAZORPAY_KEY_SECRET , RAZORPAY_WEBHOOK_SECRET

Authentication

- JWT (Merchants/Admin):
 - Header: x-auth-token: <jwt> OR Authorization: Bearer <jwt>
 - Middleware: middleware/auth.js
- API Key (Merchant API):
 - o Header: x-api-key: <merchant_api_key>
 - Middleware: middleware/apiKeyAuth.js
- SuperAdmin:
 - Header: x-auth-token: <jwt> with role superAdmin
 - Middleware: middleware/superAdminAuth.js

Routes Summary

Base path: BACKEND_URL

Auth (/api/auth)

- POST /signup � create user (admin or superAdmin)
 - Body: name, email, password, role?, businessName?, businessLogo?, businessDetails?
 - Returns: token , user
- POST /login � login with email/password

- o Body: email, password
- o Returns: token , user
- GET /profile get current user (JWT)
- PUT /profile � update profile (JWT)

Files: routes/authRoutes.js , controllers/authController.js

API Keys (/api)

All require JWT (auth middleware).

- POST /create � create API key
- GET /get qet API key
- DELETE /delete � delete API key
- POST /regenerate � regenerate API key

Files: routes/apiRoutes.js, controllers/apiController.js

Payments (Merchant) (/api/payments)

API Key auth unless noted.

- GET /status/:orderId � get payment status (x-api-key)
- GET /transactions � list transactions with filters (x-api-key)
 - Query: page, limit, status, payment_gateway, payment_method, start_date, end_date, search, sort_by, sort_order
 - Returns paginated list + summary

Merchant webhook configuration (JWT auth):

- POST /merchant/webhook/configure set webhook URL and events
- POST /merchant/webhook/test send test webhook to merchant URL
- DELETE /merchant/webhook � delete webhook config

Files: routes/paymentRoutes.js, controllers/paymentController.js, controllers/merchantWebhookController.js

Razorpay (/api/razorpay)

- POST /create-payment-link create Razorpay payment link (x-api-key)
 - Body: amount, customer_name, customer_email, customer_phone, description?, callback url?, success url?, failure url?
 - Returns: payment_link_id, payment_url, transaction_id
- POST /verify-payment verify a payment by payment_link_id
 - Body: payment_link_id
- POST /webhook
 Razorpay webhook
 - Header: x-razorpay-signature
 - Uses RAZORPAY_WEBHOOK_SECRET

Files: routes/razorpayRoutes.js , controllers/razorpayController.js

Merchant Dashboard (JWT) (/api/payments)

- GET /merchant/balance � current balances and settlement breakdown
- GET /merchant/payouts � list my payout requests (filters supported)
- POST /merchant/payout/request request payout for a settlement date
 - Body: payoutDate (YYYY-MM-DD), transferMode, beneficiaryDetails, notes?
- POST /merchant/payout/:payoutId/cancel accel payout request
- GET /merchant/transactions/:transactionId � get transaction details
- GET /merchant/payout/:payoutId/status � get payout status

Files: routes/paymentRoutes.js , controllers/adminController.js

SuperAdmin (JWT, role=superAdmin) (/api/payments and /api/superadmin)

- GET /admin/transactions � all transactions (filters supported)
- GET /admin/payouts/all � all payout requests
- POST /admin/payout/:payoutId/approve approve payout
- POST /admin/payout/:payoutId/reject � reject payout
- POST /admin/payout/:payoutId/process mark payout completed (set UTR)
- GET /api/superadmin/dashboard/stats � high-level stats

Files: routes/paymentRoutes.js , routes/superAdminRoutes.js , controllers/superAdminController.js

Models

- models/User.js user/merchant with API key, business details, webhook config, payout settings.
- models/Transaction.js transaction details incl. gateway fields, settlement fields, payout flags, indexes for queries.
- models/Payout.js payout request lifecycle: requested? approved/rejected? processing?
 completed/failed.
- models/Payin.js simple payin record (not central in flows).

Background Jobs

- jobs/settlementJob.js runs hourly:
 - Applies 4PM cutoff and weekday rules via utils/settlementCalculator.js
 - Marks eligible transactions settled and availableForPayout

Utilities

- utils/settlementCalculator.js
 expected settlement date, readiness checks, status messages.
- utils/commissionCalculator.js payin and payout commission logic.

Common Response Shape

```
Success: { success: true, ...data }Error: { success: false, error: <message> }
```

Headers Quick Reference

- JWT: x-auth-token: <jwt> or Authorization: Bearer <jwt>
- API Key: x-api-key: <key>
- Razorpay Webhook: x-razorpay-signature: <sig>
- Internal Merchant Webhooks (sent by this backend):

• x-webhook-signature, x-webhook-timestamp, x-merchant-id, x-event-type

Example: Create Razorpay Payment Link

POST \${BACKEND_URL}/api/razorpay/create-payment-link Headers: x-api-key Body:

```
"amount": 499.00,
"customer_name": "Jane Doe",
"customer_email": "jane@example.com",
"customer_phone": "9999999999",
"description": "Order #1234",
"callback_url": "https://merchant.example.com/payment/callback"
}
```

Response: { success, payment_link_id, payment_url, transaction_id, ... }

Notes

- Some console logs contain stray characters from a previous copy; harmless but can be cleaned.
- Never expose .env values in client applications.