API_Documentation

Gencharge API Documentation

Version: 1.0.0

Generated on: 2025-11-11 01:23:27 IST

Gencharge is a mobile recharge platform. This document describes all available REST endpoints grouped by domain, common conventions, authentication, and example requests and responses.

Overview

- Base URL: https://api.gencharge.example.com
- Protocols: HTTPS only
- Formats: JSON request and response
- Character encoding: UTF-8
- Rate limits: 60 requests per minute per IP unless otherwise configured

Authentication

- Auth scheme: Bearer JWT
- Obtain tokens via /auth/login or the OTP flow
- Include header on protected routes:
  - Authorization: Bearer <access_token>
- Refresh token via /auth/refresh

Error model

Errors return a non-2xx HTTP status with JSON payload:

```
{
  "detail": "Human-readable message",
```

```
   "code": "ERROR_CODE",
   "errors": [{ "field": "phone_number", "message": "Invalid format" }]
 }
```

Pagination, sorting and filtering

- Pagination: page and size or page and limit depending on the resource
- Sorting: sort_by and sort_order where provided (asc or desc). Domain-specific notes are included per endpoint.
- List endpoints accept filters as documented in their Parameters sections.

Authentication

POST /auth/signup — Signup

Create a signup session and send OTP to the phone or email.

- Tags: Auth
- Body: { phone_number, email?, referral_code? }
- Responses:
  - 200 Success
  - 422 Validation Error

POST /auth/verify-otp-signup — Verify OTP (Signup)

Verify the OTP for signup and proceed.

- Tags: Auth
- Body: { phone_number, otp }
- Responses: 200, 422

POST /auth/register — Register user

Complete profile after OTP verification.

- Tags: Auth

- Body: { name, password?, user_type? }

- Responses: 200, 422

POST /auth/login — Login

Initiate login and send OTP or validate password depending on policy.

- Tags: Auth

- Body: { phone_number, password? }

- Responses: 200, 422

POST /auth/verify-otp-login — Verify OTP (Login)

Exchange OTP for access and refresh tokens.

- Tags: Auth

- Body: { phone_number, otp }

- Responses: 200, 422

POST /auth/logout — Logout

Invalidate the current access/refresh session.

- Tags: Auth

- Responses: 200

POST /auth/refresh — Refresh token

Return a new access token using a valid refresh token.

- Tags: Auth

- Responses: 200

Admins

GET /admin/me — Get self admin

- Tags: Admin

- Responses: 200

PATCH /admin/me — Update self admin

- Tags: Admin

- Body: { name?, email?, phone_number? }

- Responses: 200, 422

GET /admin/ — List admins

- Tags: Admin

- Query: name, email, phone_number, role_name, skip, limit, sort_by, sort_order

- Responses: 200, 422

POST /admin/ — Create admin

- Tags: Admin

- Body: { name, email, phone_number, role_id }

- Responses: 200, 422

DELETE /admin/{phone_number} — Delete admin

- Tags: Admin

- Path: phone_number

- Responses: 200, 422

PATCH /admin/{phone_number} — Update admin by phone

- Tags: Admin

- Path: phone_number

- Body: { name?, role_id? }

- Responses: 200, 422

Roles

GET /role/ — List roles

- Tags: Roles
- Query: role_name, permission_resource, skip, limit, sort_by, sort_order
- Responses: 200, 422

POST /role/ — Create role

- Tags: Roles
- Body: { role_name, permissions: string[] }
- Responses: 201, 422

GET /role/{role_id} — Get role

- Tags: Roles
- Path: role_id
- Responses: 200, 422

PUT /role/{role_id} — Update role

- Tags: Roles
- Path: role_id
- Body: { role_name?, permissions? }
- Responses: 200, 422

DELETE /role/{role_id} — Delete role

- Tags: Roles
- Path: role_id
- Responses: 200, 422

GET /role/permissions/all — List permissions

- Tags: Roles
- Responses: 200

Users

GET /user/admin — List users

- Tags: Users
- Query: name, status, user_type, skip, limit, sort_by, sort_order
- Responses: 200, 422

GET /user/admin/archived — List archived users

- Tags: Users
- Query: name, status, user_type, skip, limit, sort_by, sort_order
- Responses: 200, 422

POST /user/admin/block/{user_id} — Block user

- Tags: Users
- Path: user_id
- Responses: 200, 422

POST /user/admin/unblock/{user_id} — Unblock user

- Tags: Users
- Path: user_id
- Responses: 200, 422

DELETE /user/admin/{user_id} — Delete user

- Tags: Users
- Path: user_id
- Responses: 200, 422

GET /user/me — Get my info

- Tags: Users
- Responses: 200

DELETE /user/me — Delete my account

- Tags: Users
- Responses: 200

PUT /user/me/email — Update email

- Tags: Users
- Body: { email }
- Responses: 200, 422

PUT /user/me/switch-type — Switch user type

- Tags: Users
- Body: { user_type }
- Responses: 200, 422

POST /user/me/deactivate — Deactivate account

- Tags: Users
- Responses: 200

POST /user/me/reactivate — Reactivate account

- Tags: Users
- Responses: 200

GET /user/preference — Get preferences

- Tags: Users
- Responses: 200

PUT /user/preference — Update preferences

- Tags: Users
- Body: { language?, notifications?, timezone? }
- Responses: 200, 422

Plans

POST /plans/plan-group — Create plan group

- Tags: Plans

- Body: { name, description? }

- Responses: 200, 422

GET /plans/plan-group — Get plan groups

- Tags: Plans

- Query: search, page, limit, order_by, order_dir

- Responses: 200, 422

GET /plans/plan-group/{group_id} — Get plan group

- Tags: Plans

- Path: group_id

- Responses: 200, 422

PUT /plans/plan-group/{group_id} — Update plan group

- Tags: Plans

- Path: group_id

- Body: { name?, description? }

- Responses: 200, 422

DELETE /plans/plan-group/{group_id} — Delete plan group

- Tags: Plans

- Path: group_id

- Responses: 204, 422

POST /plans/plan — Create plan

- Tags: Plans

- Body: { name, type, group_id?, price, validity_days }

- Responses: 200, 422

GET /plans/plan — Get all plans

- Tags: Plans

- Query: search, type, status, page, limit, order_by, order_dir

- Responses: 200, 422

PUT /plans/plan/{plan_id} — Update plan

- Tags: Plans

- Path: plan_id

- Body: { name?, price?, status?, validity_days? }

- Responses: 200, 422

DELETE /plans/plan/{plan_id} — Delete plan

- Tags: Plans

- Path: plan_id

- Responses: 200, 422

GET /plans/plan/{plan_id} — Get plan by id

- Tags: Plans

- Path: plan_id

- Responses: 200, 422

GET /plans/public/all — Get active plans for users

- Tags: Plans

- Query: search, type, status, page, limit, order_by, order_dir

- Responses: 200, 422

Offers

POST /offers/offer_type — Create offer type

- Tags: Offers

- Body: { name, description? }

- Responses: 200, 422

GET /offers/offer_type — List offer types

- Tags: Offers

- Query: search, order_by, order_dir, limit, offset

- Responses: 200, 422

GET /offers/offer_type/{offer_type_id} — Get offer type

- Tags: Offers

- Path: offer_type_id

- Responses: 200, 422

DELETE /offers/offer_type/{offer_type_id} — Delete offer type

- Tags: Offers

- Path: offer_type_id

- Responses: 200, 422

PUT /offers/offer_type{offer_type_id} — Update offer type

- Tags: Offers

- Path: offer_type_id

- Body: { name?, description? }

- Responses: 200, 422

POST /offers/offers — Create offer

- Tags: Offers

- Body: { title, offer_type_id, is_special?, status?, starts_at?, ends_at? }

- Responses: 201, 422

GET /offers/offers — List offers

- Tags: Offers

- Query: search, offer_type_id, is_special, status, page, limit, order_by, order_dir

- Responses: 200, 422

PUT /offers/offers/{offer_id} — Update offer

- Tags: Offers

- Path: offer_id

- Body: { title?, is_special?, status?, starts_at?, ends_at? }

- Responses: 200, 422

DELETE /offers/offers/{offer_id} — Delete offer

- Tags: Offers

- Path: offer_id

- Responses: 204, 422

GET /offers/offers/{offer_id} — Get offer

- Tags: Offers

- Path: offer_id

- Responses: 200, 422

GET /offers/offers/public — List public offers

- Tags: Offers

- Query: search, offer_type_id, is_special, status, page, limit, order_by, order_dir

- Responses: 200, 422

Recharge

POST /recharge/subscribe — Subscribe

- Tags: Recharge

- Body: { plan_id, payment_method, to_phone_number }

- Responses: 200, 422

POST /recharge/wallet/topup — Topup

- Tags: Recharge

- Body: { amount, payment_method }

- Responses: 200, 422

GET /recharge/my/plans — My plans

- Tags: Recharge

- Notes: sort_by = valid_from|valid_to. sort_order = asc|desc (default desc)

- Query: page, size, plan_id, status, valid_from_start, valid_from_end, valid_to_start, valid_to_end, validity_days_min, validity_days_max, sort_by, sort_order

- Responses: 200, 422

GET /recharge/my/transactions — My transactions

- Tags: Recharge

- Notes: size=0 returns all rows. Enum fields appear as dropdowns in Swagger. Date fields use date picker.

- Query: page, size, category, txn_type, service_type, source, status, payment_method, to_phone_number, to_phone_number_like, amount_min, amount_max, created_at_start, created_at_end, sort_by, sort_order

- Responses: 200, 422

GET /recharge/admin/active-plans — Admin active plans

- Tags: Recharge

- Notes: sort_by = valid_from|valid_to. sort_order = asc|desc (default desc)

- Query: page, size, phone_number, phone_number_like, plan_id, status, valid_from_start, valid_from_end, valid_to_start, valid_to_end, validity_days_min, validity_days_max, sort_by, sort_order

- Responses: 200, 422

GET /recharge/admin/transactions — Admin transactions

- Tags: Recharge

- Notes: size=0 returns all rows. Enums as dropdowns. Date picker for date fields.

- Query: page, size, user_id, category, txn_type, service_type, source, status, payment_method, from_phone_number, from_phone_number_like, to_phone_number, to_phone_number_like, amount_min, amount_max, created_at_start, created_at_end, sort_by, sort_order

- Responses: 200, 422

Autopay

POST /autopay/create_autopay — Add autopay

- Tags: Autopay

- Body: { phone_number, tag?, schedule_cron or interval_days, plan_id, start_date? }

- Responses: 201, 422

GET /autopay/get_autopay/{autopay_id} — Get one autopay

- Tags: Autopay

- Path: autopay_id

- Responses: 200, 422

GET /autopay/get_all_autopay — List my autopays

- Tags: Autopay

- Query: page, size, status, phone_number, tag, sort

- Responses: 200, 422

PATCH /autopay/{autopay_id} — Edit autopay

- Tags: Autopay

- Path: autopay_id

- Body: { status?, tag?, next_due_date?, schedule? }

- Responses: 200, 422

DELETE /autopay/{autopay_id} — Remove autopay

- Tags: Autopay

- Path: autopay_id

- Responses: 204, 422

GET /autopay/admin/all — Admin list all

- Tags: Autopay

- Query: page, size, status, tag, phone_number, sort

- Responses: 200, 422

POST /autopay/admin/process-due — Admin process due

- Tags: Autopay

- Description: Executes all regular autopays whose next_due_date <= now. Returns success/failure per autopay.

- Responses: 200

Referrals

GET /referrals/me — My referral history

- Tags: Referrals
- Query: page, size, status, sort
- Responses: 200, 422

GET /referrals/admin/all — Admin referral history

- Tags: Referrals
- Query: page, size, status, sort
- Responses: 200, 422

Notification

POST /notification/announcement — Create announcement

- Tags: Notification
- Body: { title, body, priority?, expires_at? }
- Responses: 201, 422

GET /notification/my — Get my notifications

- Tags: Notification
- Responses: 200

DELETE /notification/delete — Delete notification(s)

- Tags: Notification
- Body: { ids: string[] }
- Responses: 200, 422

Contact Form

POST /contact-from/contacts/ — Create contact

- Tags: Contact-Form

- Body: { name, email, subject, message }

- Responses: 200, 422

GET /contact-from/contacts/ — List contacts

- Tags: Contact-Form

- Query: email, start_date, end_date, order

- Responses: 200, 422

PATCH /contact-from/contacts/{contact_id}/resolved — Set resolved

- Tags: Contact-Form

- Path: contact_id (24-char hex)

- Body: { resolved: boolean }

- Responses: 200, 422

Content

POST /content/admin — Admin create content

- Tags: Content

- Body: { title, body, tags? }

- Responses: 201, 422

GET /content/admin — Admin list content

- Tags: Content

- Query: title, created_by, updated_by, created_at_from, created_at_to, updated_at_from, updated_at_to, order_by, order_dir, page, size

- Responses: 200, 422

PUT /content/admin/{content_id} — Admin edit content

- Tags: Content

- Path: content_id

- Body: { title?, body?, tags? }

- Responses: 200, 422

DELETE /content/admin/{content_id} — Admin delete content

- Tags: Content

- Path: content_id

- Responses: 200, 422

GET /content — Users list public content

- Tags: Content

- Query: page, size

- Responses: 200, 422

Backup

POST /backup/backup/create — Create backup

- Tags: Backup

- Description: Perform pg_dump for specified tables with optional date range.

- Body: { tables: [{ name, date_column?, start_date?, end_date? }] }

- Responses: 201, 422

GET /backup/backup/ — List backups

- Tags: Backup

- Responses: 200

DELETE /backup/backup/{backup_id} — Delete backup

- Tags: Backup

- Path: backup_id

- Responses: 204, 422

POST /backup/backup/{backup_id}/restore — Restore backup

- Tags: Backup

- Path: backup_id

- Body: { options? }

- Responses: 202, 422

Reports

POST /reports/admins-report — Admin report

- Tags: Reports

- Body: AdminsReportFilter

- Responses: 200, 422

POST /reports/autopay-report — Autopay report

- Tags: Reports

- Body: AutoPayReportFilter. Returns JSON or CSV/Excel/PDF. Pagination skipped if limit==0 or offset==0.

- Responses: 200, 422

POST /reports/backup-report — Backup report

- Tags: Reports

- Body: BackupReportFilter

- Responses: 200, 422

POST /reports/current-active-plans-report — Current active plans

- Tags: Reports

- Body: ActivePlansReportFilter

- Responses: 200, 422

POST /reports/offers-report — Offers report

- Tags: Reports

- Body: OfferReportFilter. Returns JSON or CSV/Excel/PDF. Pagination skipped if limit==0 or offset==0.

- Responses: 200, 422

POST /reports/plans-report — Plans report

- Tags: Reports

- Body: PlanReportFilter. Returns JSON or CSV/Excel/PDF. Pagination skipped if limit==0 or offset==0.

- Responses: 200, 422

POST /reports/referral-report — Referral report

- Tags: Reports

- Body: ReferralReportFilter. Returns JSON or CSV/Excel/PDF. Pagination skipped unless both limit>0 and offset>0.

- Responses: 200, 422

POST /reports/role-permission-report — Role permissions report

- Tags: Reports

- Body: RolePermissionReportFilter. Pagination only when both limit>0 and offset>0.

- Responses: 200, 422

POST /reports/sessions-report — Sessions report

- Tags: Reports

- Body: SessionsReportFilter. Pagination skipped if limit==0 or offset==0.

- Responses: 200, 422

POST /reports/transactions-report — Transactions report

- Tags: Reports
- Body: TransactionsReportFilter. Pagination skipped if limit==0 or offset==0.
- Responses: 200, 422

POST /reports/archived-users-report — Users archive report

- Tags: Reports
- Body: UsersArchiveFilter. Pagination only when both limit>0 and offset>0.
- Responses: 200, 422

POST /reports/users-report — Users report

- Tags: Reports
- Body: UsersReportFilter. Pagination only when both limit>0 and offset>0.
- Responses: 200, 422

POST /reports/me/transactions-report — My transactions report

- Tags: Reports
- Body: TransactionsReportFilter. Pagination skipped if limit==0 or offset==0.
- Responses: 200, 422

Analytics

GET /analytics/admins — Get admins report

- Tags: Analytics
- Responses: 200

GET /analytics/backup — Get backups report

- Tags: Analytics

- Responses: 200

GET /analytics/current-active-plans — Current active plans report

- Tags: Analytics
- Responses: 200

GET /analytics/offers — Offers report

- Tags: Analytics
- Responses: 200

GET /analytics/plans — Plans report

- Tags: Analytics
- Responses: 200

GET /analytics/referrals — Referrals report

- Tags: Analytics
- Responses: 200

GET /analytics/transactions — Transactions report

- Tags: Analytics
- Responses: 200

GET /analytics/users-archive — Users archive report

- Tags: Analytics
- Responses: 200

GET /analytics/users — Users report

- Tags: Analytics
- Description: Returns counts, trends, distributions and growth rates.
- Responses: 200

GET /analytics/me/users — Get user insights

- Tags: Analytics

- Responses: 200

Testing

GET /analytics/me/users — Admin dashboard

- Tags: Testing

- Responses: 200

Examples

Curl — authorized request

```
ACCESS_TOKEN="<paste-access-token>"
BASE_URL="https://api.gencharge.example.com"

curl -sS -X GET \
  "$BASE_URL/user/me" \
  -H "Authorization: Bearer $ACCESS_TOKEN" \
  -H "Content-Type: application/json"
```

Curl — create plan

```
ACCESS_TOKEN="<paste-access-token>"
BASE_URL="https://api.gencharge.example.com"

curl -sS -X POST \
  "$BASE_URL/plans/plan" \
  -H "Authorization: Bearer $ACCESS_TOKEN" \
  -H "Content-Type: application/json" \
  -d '{
```

```
    "name": "1.5GB Daily Pack",
    "type": "DATA",
    "group_id": "pg_123",
    "price": 249,
    "validity_days": 28
  }'
```

HTTP headers

- Content-Type: application/json

- Accept: application/json

HTTP Status Codes

- 200 OK — Successful request

- 201 Created — Resource created

- 202 Accepted — Processing in background

- 204 No Content — Successfully processed with no body

- 400 Bad Request — Invalid input

- 401 Unauthorized — Missing or invalid token

- 403 Forbidden — Insufficient permissions

- 404 Not Found — Resource does not exist

- 409 Conflict — State conflict

- 422 Validation Error — Input failed validation

- 429 Too Many Requests — Rate limited

- 500 Internal Server Error — Unexpected error

Changelog

- 1.0.0 Initial draft covering Auth, Admins, Roles, Users, Plans, Offers, Recharge, Autopay, Referrals, Notifications, Contact Form, Content, Backup, Reports,

Analytics.