

http://localhost:8000/s

Explore

Blockchain-Integrated Charity Platform

[Base URL: localhost:8000/api]

http://localhost:8000/swagger/schema/?format=openapi



A comprehensive blockchain-integrated charity platform API that enables charity registration, campaign management, donation processing, and fund allocation with full blockchain transparency on Sepolia testnet.

𝑉 Key Features

- Charity Management: Register and manage charitable organizations
- Campaign System: Create and manage fundraising campaigns
- Donation Processing: Handle USD and ETH donations with blockchain recording
- Fund Allocation: Allocate funds to campaign events with blockchain transactions
- User Management: Role-based authentication (Donor, Charity Manager, Admin)
- Blockchain Integration: Full Sepolia testnet integration with smart contracts

Authentication

The API uses JWT-based authentication with role-based access control:

- DONOR: Can make donations and view campaigns
- CHARITY_MANAGER: Can create campaigns and allocate funds
- · ADMIN: Full system access and event approval

Blockchain Integration

- Network: Sepolia Testnet
- Explorer: https://sepolia.etherscan.io
- Contract: Deployed smart contract for all operations
- Transactions: All operations recorded on blockchain

Quick Start

- 1. Authentication: Login with email/password or wallet
- 2. Create Charity: Register charitable organization
- 3. Create Campaign: Set up fundraising campaign
- 4. Make Donations: Process donations with blockchain recording
- 5. Allocate Funds: Distribute funds to events

API Endpoints

Authentication

- POST /ani/auth/login/ User login
- POST /ani/auth/longut/ User logout
- POST /ani/auth/refresh/ Token refresh
- POST /api/auth/wallet-login/ Wallet authentication

Charities

- GFT /ani/charities/ List charities
- POST /ani/charities/ Create charity (with blockchain registration)
- GET /ani/charities/{id}/ Get charity details
- PUT /api/charities/{id}/ Update charity

Campaigns

- GET /ani/campaigns/ List campaigns
- POST /ani/campaigns/ Create campaign (with blockchain registration)
- GET /ani/campaigns/{id}/ Get campaign details
- POST /ani/campaigns/{id}/donate/ Make donation (with blockchain transaction)
- POST /ani/campaigns/{id}/allocate funds/ Allocate funds to events
- **GET** /api/campaigns/{id}/utilization/ Get fund utilization stats

Transactions

• GET /api/campaigns/all_transactions/ - Get all blockchain transactions

Environment Variables

```
BLOCKCHAIN_RPC_URL=https://sepolia.infura.io/v3/YOUR_PROJECT_ID
CONTRACT_ADDRESS=0x...
ADMIN_WALLET_ADDRESS=0x...
ADMIN_WALLET_PRIVATE_KEY=0x...
```

Testing

Use the interactive Swagger UI to test all endpoints. Ensure you have:

- Valid authentication tokens
- · Proper role permissions
- · Blockchain configuration set up

Support

For technical support or questions, contact: mithilapanagoda@gmail.com

Terms of service

Mithila Panagoda - Website Send email to Mithila Panagoda

MIT License

Schemes Django mithila@hyperglade.io

HTTP Django Logout

Authorize

Filter by tag

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POST	/campaign-events/	campaign—events_create	V (
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POST	/tokens/	tokens_create	~	1
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DELETE	/tokens/{id}/	tokens_delete	~	1
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GET	/users/{id}/	users_read ∨ 🔒
POST	/users/login/	users_login ✓ 🔒
GET	/users/me/	users_me ✓ 🔒
POST	/users/wallet-login/	users_wallet_login ✓ 🔒
Models		~