
stellar-model

Release 0.5.4

overcat

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stellar-model is based on [pydantic](#), you can use it to parse the JSON returned by [Stellar Horizon](#) into Python models, through it, you can get a better development experience in the editor with things like code completion, type hints, and more.

INSTALLING

You need to choose a suitable stellar-model version according to the Horizon version number you are using. Please check the list [here](#).

```
pip install stellar-model==0.5.4
```


EXAMPLE

```
import requests
from stellar_model import AccountResponse

url = "https://horizon.stellar.org/accounts/
↳ GALAXYVOIDAOPZTDLHILAJQKCVFMD4IKLXLSZV5YH07VY74IWZILUTO"
raw_resp = requests.get(url).json()
parsed_resp = AccountResponse.model_validate(raw_resp)
print(f"Account Sequence: {parsed_resp.sequence}")
```

Of course you can use it with `stellar-sdk`.

```
from stellar_sdk import Server
from stellar_model import AccountResponse

server = Server("https://horizon.stellar.org")
account_id = "GALAXYVOIDAOPZTDLHILAJQKCVFMD4IKLXLSZV5YH07VY74IWZILUTO"
raw_resp = server.accounts().account_id(account_id).call()
parsed_resp = AccountResponse.model_validate(raw_resp)
print(f"Account Sequence: {parsed_resp.sequence}")
```


DOCUMENTATION

stellar-model's documentation can be found at <https://stellar-model.readthedocs.io>

API REFERENCE

4.1 Response Model

4.1.1 AccountDataResponse

class stellar_model.response.AccountDataResponse(*, value: str, sponsor: str | None = None)

Represents single account data response.

Can be used for the following endpoint(s):

- GET /accounts/:account_id/data/:key

See [Retrieve an Account's Data](#) on Stellar API Reference.

4.1.2 AccountResponse

class stellar_model.response.AccountResponse(*, id: str, account_id: str, sequence: int, sequence_ledger: int | None = None, sequence_time: datetime | None = None, subentry_count: int, inflation_destination: str | None = None, home_domain: str | None = None, last_modified_ledger: int, last_modified_time: datetime | None = None, thresholds: AccountThresholds, flags: AccountFlags, balances: List[Balance], signers: List[Signer], data: Mapping[str, str], num_sponsoring: int, num_sponsored: int, sponsor: str | None = None, paging_token: str, _links: Links)

Represents single account response.

Can be used for the following endpoint(s):

- GET /accounts/:account_id

See [Retrieve an Account](#) on Stellar API Reference.

4.1.3 AccountsResponse

class stellar_model.response.AccountsResponse(*, _links: Links, _embedded: Embedded)

Represents accounts response.

Can be used for the following endpoint(s):

- GET /accounts

See [Accounts](#) on Stellar API Reference.

4.1.4 AssetsResponse

class stellar_model.response.AssetsResponse(*, _links: Links, _embedded: Embedded)

Represents assets response.

Can be used for the following endpoint(s):

- GET /accounts

See [Assets](#) on Stellar API Reference.

4.1.5 ClaimableBalanceResponse

class stellar_model.response.ClaimableBalanceResponse(*, id: str, asset: str, amount: Decimal,
sponsor: str | None = None,
last_modified_ledger: int, last_modified_time:
datetime | None = None, claimants:
List[Claimant], flags:
ClaimableBalanceFlags, paging_token: str,
_links: Links)

Represents single claimable balance response.

Can be used for the following endpoint(s):

- GET /claimable_balances/:claimable_balance_id

See [Claimable Balances](#) on Stellar API Reference.

4.1.6 ClaimableBalancesResponse

class stellar_model.response.ClaimableBalancesResponse(*, _links: Links, _embedded: Embedded)

Represents claimable balances response.

Can be used for the following endpoint(s):

- GET /claimable_balances

See [Claimable Balances](#) on Stellar API Reference.

4.1.7 EffectsResponse

class stellar_model.response.EffectsResponse(*, _links: Links, _embedded: Embedded)

Represents effects response.

Can be used for the following endpoint(s):

- GET /effects

See [Effects](#) on Stellar API Reference.

4.1.8 ErrorResponse

class stellar_model.response.ErrorResponse(*, type: str, title: str, status: int, detail: str | None = None, extras: Mapping[str, Any] | None = None)

Represents error response.

See [Error Response](#) on Stellar API Reference.

4.1.9 FeeStatsResponse

class stellar_model.response.FeeStatsResponse(*, last_ledger: int, last_ledger_base_fee: int, ledger_capacity_usage: Decimal, fee_charged: FeeDistribution, max_fee: FeeDistribution)

Represents fee stats response.

Can be used for the following endpoint(s):

- GET /fee_stats

See [Fee Stats](#) on Stellar API Reference.

4.1.10 LedgerResponse

class stellar_model.response.LedgerResponse(*, id: str, paging_token: str, hash: str, prev_hash: str | None = None, sequence: int, successful_transaction_count: int, failed_transaction_count: int, operation_count: int, tx_set_operation_count: int, closed_at: datetime, total_coins: Decimal, fee_pool: Decimal, base_fee_in_stroops: int, base_reserve_in_stroops: int, max_tx_set_size: int, protocol_version: int, header_xdr: str, _links: Links)

Represents single ledger response.

Can be used for the following endpoint(s):

- GET /ledger/:sequence_id

See [Retrieve a Ledger](#) on Stellar API Reference.

4.1.11 LedgersResponse

class stellar_model.response.LedgersResponse(*, _links: Links, _embedded: Embedded)

Represents ledgers response.

Can be used for the following endpoint(s):

- GET /ledgers

See [Ledgers](#) on Stellar API Reference.

4.1.12 LiquidityPoolResponse

class stellar_model.response.LiquidityPoolResponse(*, id: str, paging_token: str, fee_bp: int, type: str, total_trustlines: int, total_shares: Decimal, reserves: List[LiquidityPoolAssetAmount], last_modified_ledger: int, last_modified_time: datetime | None = None, _links: Links)

Represents single liquidity pool response.

Can be used for the following endpoint(s):

- GET /liquidity_pools/:liquidity_pool_id

See [Retrieve a Liquidity Pool](#) on Stellar API Reference.

4.1.13 LiquidityPoolsResponse

class stellar_model.response.LiquidityPoolsResponse(*, _links: Links, _embedded: Embedded)

Represents liquidity pools response.

Can be used for the following endpoint(s):

- GET /liquidity_pools

See [Liquidity Pools](#) on Stellar API Reference.

4.1.14 OfferResponse

class stellar_model.response.OfferResponse(*, id: str, paging_token: str, seller: str, selling: Asset, buying: Asset, amount: Decimal, price_r: Price, price: Decimal, last_modified_ledger: int, last_modified_time: datetime | None = None, sponsor: str | None = None, _links: Links)

Represents single offer response.

Can be used for the following endpoint(s):

- GET /offer/:offer_id

See [Retrieve an Offer](#) on Stellar API Reference.

4.1.15 OffersResponse

class stellar_model.response.OffersResponse(*, _links: Links, _embedded: Embedded)

Represents offers response.

Can be used for the following endpoint(s):

- GET /offers

See [Offers](#) on Stellar API Reference.

4.1.16 OperationResponse

class stellar_model.response.OperationResponse(*, record: CreateAccountOperation | PaymentOperation | PathPaymentStrictReceiveOperation | ManageSellOfferOperation | CreatePassiveSellOfferOperation | SetOptionsOperation | ChangeTrustOperation | AllowTrustOperation | AccountMergeOperation | InflationOperation | ManageDataOperation | BumpSequenceOperation | ManageBuyOfferOperation | PathPaymentStrictSendOperation | CreateClaimableBalanceOperation | ClaimClaimableBalanceOperation | BeginSponsoringFutureReservesOperation | EndSponsoringFutureReservesOperation | RevokeSponsorshipOperation | ClawbackOperation | ClawbackClaimableBalanceOperation | SetTrustLineFlagsOperation | LiquidityPoolDepositOperation | LiquidityPoolWithdrawOperation | InvokeHostFunctionOperation | BumpFootprintExpirationOperation | RestoreFootprintOperation)

Represents single operation response.

Can be used for the following endpoint(s):

- GET /operations/:operation_id

See [Operations](#) on Stellar API Reference.

4.1.17 OperationsResponse

class stellar_model.response.OperationsResponse(*, _links: Links, _embedded: Embedded)

Represents operations response.

Can be used for the following endpoint(s):

- GET /operations

See [Operations](#) on Stellar API Reference.

4.1.18 PathsResponse

class stellar_model.response.PathsResponse(*, _embedded: Embedded)

Represents paths response.

Can be used for the following endpoint(s):

- GET /paths/strict-receive
- GET /paths/strict-send

See [Paths](#) on Stellar API Reference.

4.1.19 PaymentsResponse

class stellar_model.response.PaymentsResponse(*, _links: Links, _embedded: Embedded)

Represents payments response.

Can be used for the following endpoint(s):

- /payments{?cursor,limit,order,include_failed}

4.1.20 RootResponse

class stellar_model.response.RootResponse(*, horizon_version: str, core_version: str,
ingest_latest_ledger: int, history_latest_ledger: int,
history_latest_ledger_closed_at: datetime,
history_elder_ledger: int, core_latest_ledger: int,
network_passphrase: str, current_protocol_version: int,
core_supported_protocol_version: int, _links: Links)

Represents root response.

Can be used for the following endpoint(s):

- GET /root

4.1.21 TradeAggregationsResponse

class stellar_model.response.TradeAggregationsResponse(*, _links: Links, _embedded: Embedded)

Represents trade aggregations response.

Can be used for the following endpoint(s):

- GET /trade_aggregations

See [Trade Aggregations](#) on Stellar API Reference.

4.1.22 TradesResponse

class stellar_model.response.TradesResponse(*, _links: Links, _embedded: Embedded)

Represents trades response.

Can be used for the following endpoint(s):

- GET /trades

See [Trades](#) on Stellar API Reference.

4.1.23 TransactionResponse

class stellar_model.response.TransactionResponse(*, id: str, paging_token: str, successful: bool, hash: str, ledger: int, created_at: datetime, source_account: str, account_muxed: str | None = None, account_muxed_id: int | None = None, source_account_sequence: int, fee_account: str, fee_account_muxed: str | None = None, fee_account_muxed_id: int | None = None, fee_charged: int, max_fee: int, operation_count: int, envelope_xdr: str, result_xdr: str, result_meta_xdr: str, fee_meta_xdr: str, memo_type: str, memo: str | None = None, memo_bytes: bytes | None = None, signatures: List[str], valid_after: datetime | None = None, valid_before: datetime | None = None, preconditions: TransactionPreconditions | None = None, fee_bump_transaction: FeeBumpTransaction | None = None, inner_transaction: InnerTransaction | None = None, _links: Links)

Represents single transaction response.

Can be used for the following endpoint(s):

- GET /transactions/:transaction_id
- POST /transactions

See [Transactions](#) on Stellar API Reference.

4.1.24 TransactionsResponse

class stellar_model.response.TransactionsResponse(*, _links: Links, _embedded: Embedded)

Represents transactions response.

Can be used for the following endpoint(s):

- GET /transactions

See [Transactions](#) on Stellar API Reference.

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