
stellar-model

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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

```
pip install stellar-model==0.1.0b1
```


EXAMPLE

```
import requests
from stellar_model import AccountResponse

url = "https://horizon.stellar.org/accounts/
↳GALAXYVOIDAOPZTDLHILAJQKCVFMD4IKLXLSZV5YHO7VY74IWZILUTO"
raw_resp = requests.get(url).json()
parsed_resp = AccountResponse.parse_obj(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 = "GALAXYVOIDAOPZTDLHILAJQKCVFMD4IKLXLSZV5YHO7VY74IWZILUTO"
raw_resp = server.accounts().account_id(account_id).call()
parsed_resp = AccountResponse.parse_obj(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)
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, subentry_count: int, inflation_destination: str = None, home_domain: str = None, last_modified_ledger: int, last_modified_time: datetime, thresholds: stellar_model.model.horizon.account.AccountThresholds, flags: stellar_model.model.horizon.account.AccountFlags, balances: List[stellar_model.model.horizon.account.Balance], signers: List[stellar_model.model.horizon.account.Signer], data: Mapping[str, str], num_sponsoring: int, num_sponsored: int, sponsor: str = None, paging_token: str, _links: stellar_model.model.horizon.account.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: stellar_model.response.page_model.Links,
                                              _embedded: stellar_model.response.accounts_response.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: stellar_model.response.page_model.Links,
                                              _embedded: stellar_model.response.assets_response.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.Decimal,
                                                       sponsor: str = None,
                                                       last_modified_ledger: int,
                                                       last_modified_time: datetime,
                                                       claimants: List[stellar_model.model.horizon.claimable_balance.ClaimableBalance],
                                                       flags: stellar_model.model.horizon.claimable_balance.ClaimableBalanceFlags,
                                                       paging_token: str,
                                                       _links: stellar_model.model.horizon.claimable_balance.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: stellar_model.response.page_model.Links,
                                                         _embedded: stellar_model.response.claimable_balances_response.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: stellar_model.response.page_model.Links,
                                              _embedded: stellar_model.response.effects_response.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, extras: Mapping[str, Any] = 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.Decimal,
                                                fee_charged: stellar_model.model.horizon.fee_stats.FeeDistribution,
                                                max_fee: stellar_model.model.horizon.fee_stats.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, sequence: int, successful_transaction_count: int, failed_transaction_count: int, operation_count: int, tx_set_operation_count: int, closed_at: datetime.datetime, total_coins: decimal.Decimal, fee_pool: decimal.Decimal, base_fee_in_stroops: int, base_reserve_in_stroops: int, max_tx_set_size: int, protocol_version: int, header_xdr: str, _links: stellar_model.model.horizon.ledger.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: stellar_model.response.page_model.Links, _embedded: stellar_model.response.ledgers_response.Embedded)
```

Represents ledgers response.

Can be used for the following endpoint(s):

- GET /ledgers

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

4.1.12 OfferResponse

```
class stellar_model.response.OfferResponse(*, id: str, paging_token: str, seller: str, selling: stellar_model.model.horizon.asset.Asset, buying: stellar_model.model.horizon.asset.Asset, amount: decimal.Decimal, price_r: stellar_model.model.horizon.price.Price, price: decimal.Decimal, last_modified_ledger: int, last_modified_time: datetime.datetime, sponsor: str = None, _links: stellar_model.model.horizon.offer.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.

4.1.13 OffersResponse

```
class stellar_model.response.OffersResponse (*,
                                             _links:          stel-
                                             lar_model.response.page_model.Links,
                                             _embedded:        stel-
                                             lar_model.response.offers_response.Embedded)
```

Represents offers response.

Can be used for the following endpoint(s):

- GET /offers

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

4.1.14 OperationResponse

```
class stellar_model.response.OperationResponse (*,
                                                record:
                                                Union[stellar_model.model.horizon.operations.CreateAccountOp-
                                                stellar_model.model.horizon.operations.PaymentOperation,
                                                stellar_model.model.horizon.operations.PathPaymentStrictReceiv-
                                                stellar_model.model.horizon.operations.ManageSellOfferOperat-
                                                stellar_model.model.horizon.operations.CreatePassiveSellOfferC-
                                                stellar_model.model.horizon.operations.SetOptionsOperation,
                                                stellar_model.model.horizon.operations.ChangeTrustOperation,
                                                stellar_model.model.horizon.operations.AllowTrustOperation,
                                                stellar_model.model.horizon.operations.AccountMergeOperation,
                                                stellar_model.model.horizon.operations.InflationOperation,
                                                stellar_model.model.horizon.operations.ManageDataOperation,
                                                stellar_model.model.horizon.operations.BumpSequenceOperatio-
                                                stellar_model.model.horizon.operations.ManageBuyOfferOperat-
                                                stellar_model.model.horizon.operations.PathPaymentStrictSendO-
                                                stellar_model.model.horizon.operations.CreateClaimableBalance-
                                                stellar_model.model.horizon.operations.ClaimClaimableBalance-
                                                stellar_model.model.horizon.operations.BeginSponsoringFutureRel-
                                                stellar_model.model.horizon.operations.EndSponsoringFutureRe-
                                                stellar_model.model.horizon.operations.RevokeSponsorshipOper-
                                                stellar_model.model.horizon.operations.ClawbackOperation,
                                                stellar_model.model.horizon.operations.ClawbackClaimableBal-
                                                stellar_model.model.horizon.operations.SetTrustLineFlagsOpera-
```

Represents single operation response.

Can be used for the following endpoint(s):

- GET /operations/:operation_id

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

4.1.15 OperationsResponse

```
class stellar_model.response.OperationsResponse (*,          _links:          stel-
                                                         lar_model.response.page_model.Links,
                                                         _embedded:          stel-
                                                         lar_model.response.operations_response.Embedded)
```

Represents operations response.

Can be used for the following endpoint(s):

- GET /operations

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

4.1.16 PathsResponse

```
class stellar_model.response.PathsResponse (*,          _embedded:          stel-
                                                         lar_model.response.paths_response.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.

4.1.17 PaymentsResponse

```
class stellar_model.response.PaymentsResponse (*,          _links:          stel-
                                                         lar_model.response.page_model.Links,
                                                         _embedded:          stel-
                                                         lar_model.response.payments_response.Embedded)
```

Represents payments response.

Can be used for the following endpoint(s):

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

4.1.18 TradeAggregationsResponse

```
class stellar_model.response.TradeAggregationsResponse (*,          _links:          stel-
                                                         lar_model.response.page_model.Links,
                                                         _embedded:          stel-
                                                         lar_model.response.trade_aggregations_response.En
```

Represents trade aggregations response.

Can be used for the following endpoint(s):

- GET /trade_aggregations

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

4.1.19 TradesResponse

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

Represents trades response.

Can be used for the following endpoint(s):

- GET /trades

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

4.1.20 TransactionResponse

```
class stellar_model.response.TransactionResponse(*, id: str, paging_token: str,
                                                    successful: bool, hash: str,
                                                    ledger: int, created_at: datetime.datetime,
                                                    source_account: str, source_account_sequence: int,
                                                    fee_account: str, 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, memo_bytes: bytes = None,
                                                    signatures: List[str], valid_after: datetime.datetime = None,
                                                    valid_before: datetime.datetime = None, fee_bump_transaction: stellar_model.model.horizon.transaction.FeeBumpTransaction = None,
                                                    inner_transaction: stellar_model.model.horizon.transaction.InnerTransaction = None,
                                                    _links:          stellar_model.model.horizon.transaction.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.

4.1.21 TransactionsResponse

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

Represents transactions response.

Can be used for the following endpoint(s):

- GET /transactions

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

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