StocksPlayground API documentation

Check if user is authenticated and get their infos

URL : `/isAuthenticated?jwt=[value]`

Method : `GET`

Success Response

Code : `200 OK`
Return value: Json object of user

Example:

```
{
        "username": "test",
    "name": "Test",
    "surname": "Test",
    "password": "[hashofpassword]",
    "email": "test@test.test",
    "description": "lorem ipsum"
}
```

Fail Response

Code: `401 Unauthorized`

Get general info about market

URL: `/data`

Method: `GET`

Success Response

Code: `200 OK`
Return value: Json object of data

Example:

```json
{
  "tickers": [
    {
      "name": "F",
      "change": "-1.20%"
    },
    {
      "name": "TSLA",
      "change": "-3.03%"
    },
    {
      "name": "RIVN",
      "change": "-4.38%"
    },
    {
      "name": "GM",
      "change": "-1.31%"
    }
    ...
  ],
  "gainers": [
    {
      "name": "UNTC",
      "price": "50.64",
      "change": "2.82%",
      "high": "51.20",
      "low": "49.40",
      "previous": 49.25,
      "markCap": "0.49K"
    },
    {
      "name": "VMW",
      "price": "137.83",
      "change": "0.44%",
      "high": "138.53",
      "low": "135.68",
      "previous": 137.23,
      "markCap": "59.32K"
    }
    ...
  ],
  "treemap": {
    "name": "Sectors",
    "children": [
      {
        "name": "Automobiles",
```

```json
      "children": [
        {
          "name": "F",
          "markCap": 56090.801282,
          "change": -1.198
        },
        {
          "name": "TSLA",
          "markCap": 813294.784335,
          "change": -3.0271
        },
        {
          "name": "RIVN",
          "markCap": 12711.570181,
          "change": -4.3816
        },
        {
          "name": "GM",
          "markCap": 50294.669925999995,
          "change": -1.3093
        }
        ...
      ]
    },
    {
      "name": "Technology",
      "children": [
        {
          "name": "ORCL",
          "markCap": 322019.690043,
          "change": -1.6089
        },
        {
          "name": "VMW",
          "markCap": 59315.91607700001,
          "change": 0.4372
        },
        {
          "name": "MCFE",
          "markCap": 11464.71,
          "change": null
        },
        {
          "name": "NOW",
          "markCap": 110607.059354,
          "change": -1.2512
```

```
        }
        ...
      ]
    }
    ...
  ]
}
```

Fail response

Reponse Code: `500 Internal Server Error`

Get latest news

URL : `/news`

Method : `GET`

Success Response

Code : `200 OK`

Return value: Json object of news

Example:

```json
[
  {
    "category": "Top news",
    "datetime": "2023-06-26, 10:09 AM",
    "headline": "Market Snapshot: U.S. stock futures point to more caution after Russian turmoil amid economic worries",
    "image": "https://images.mktw.net/im-806798/social",
    "source": "MarketWatch",
    "summary": "U.S. stock futures were a touch weaker Monday, extending last week's pullback as the volatile weekend in Russia pushed safe assets including gold and bonds higher.",
    "url": "https://www.marketwatch.com/story/u-s-stock-futures-point-to-more-caution-after-russian-turmoil-amid-economic-worries-d9e11c9e"
  },
  {
    "category": "Top news",
    "datetime": "2023-06-26, 10:07 AM",
    "headline": "Help My Career: Here's what to expect from the 'landmark' new law
```

```
protecting pregnant workers",
    "image": "https://images.mktw.net/im-805907/social",
    "source": "MarketWatch",
    "summary": "The Pregnant Workers Fairness Act, which goes into effect June 27,
gives pregnant employees protections when they ask for workplace accommodations.",
    "url": "https://www.marketwatch.com/story/heres-what-to-expect-from-the-
landmark-new-law-protecting-pregnant-workers-bc1153bd"
  },
  {
    "category": "Top news",
    "datetime": "2023-06-26, 10:05 AM",
    "headline": "Mark Hulbert: Is the stock market forming a bubble?",
    "image": "https://images.mktw.net/im-806684/horizontal",
    "source": "MarketWatch",
    "summary": "A review of stock market valuation indicators",
    "url": "https://www.marketwatch.com/story/is-the-stock-market-forming-a-bubble-
454ffa6e"
  },
  {
    "category": "Top news",
    "datetime": "2023-06-26, 9:45 AM",
    "headline": "The Moneyist: Can I sue my sister for possession of my father's
ashes? He died 7 months ago, but she never told me.",
    "image": "https://images.mktw.net/im-805918/social",
    "source": "MarketWatch",
    "summary": "'I only found out last week that my father passed away four months
ago. It was quite a shock.'",
    "url": "https://www.marketwatch.com/story/can-i-sue-my-sister-for-possession-
of-my-fathers-ashes-he-died-7-months-ago-but-she-never-told-me-33b6640c"
  },
  {
    "category": "Top news",
    "datetime": "2023-06-26, 9:37 AM",
    "headline": "Movers & Shakers: Tesla stock slips on downgrade, IBM shares ease
on reported deal and other stocks on the move",
    "image": "https://images.mktw.net/im-801344/social",
    "source": "MarketWatch",
    "summary": "IBM, Tesla and Novo Nordisk are some of the stocks on the move.",
    "url": "https://www.marketwatch.com/story/tesla-stock-slips-on-downgrade-ibm-
shares-ease-on-reported-deal-and-other-stocks-on-the-move-b8fe0bdc"
  }
]
```

Fail response

Reponse Code: `500 Internal Server Error`

Get Info to fill boxes in homepage

URL : `/boxes`

Method : `GET`

Success Response

Code : `200 OK`

Return value: Json object of boxes data

Example:

```json
{
  "sector": {
    "name": "Industrials",
    "change": 7.89
  },
  "index": {
    "name": "DIA",
    "change": -0.64
  }
}
```

Fail response

Reponse Code: `500 Internal Server Error`

Get cryptocurrencies data

URL : `/crypto_data`

Method : `GET`

Success Response

Code : `200 OK`

Return value: Json object of cryptocurrencies data

Example:

```json
{
  "most_trending": [
```

```json
    {
      "rank": 21,
      "name": "UNUS SED LEO",
      "symbol": "LEO",
      "price": "3.85",
      "change1h": "0.41",
      "change1d": "1.34",
      "volume": "970.90K",
      "marketCap": "3583410.68K"
    },
    {
      "rank": 12,
      "name": "Polkadot",
      "symbol": "DOT",
      "price": "5.18",
      "change1h": "0.19",
      "change1d": "-0.50",
      "volume": "149403.72K",
      "marketCap": "6205254.01K"
    },
    {
      "rank": 20,
      "name": "Bitcoin Cash",
      "symbol": "BCH",
      "price": "192.31",
      "change1h": "0.05",
      "change1d": "-3.19",
      "volume": "772589.51K",
      "marketCap": "3736751.97K"
    }
    ...
  ],
  "most_famous": [
    {
      "rank": 18,
      "name": "Shiba Inu",
      "symbol": "SHIB",
      "in_circulation": "589348253.70M"
    },
    {
      "rank": 8,
      "name": "Dogecoin",
      "symbol": "DOGE",
      "in_circulation": "139924.62M"
    },
    {
```

```
        "rank": 10,
        "name": "TRON",
        "symbol": "TRX",
        "in_circulation": "89972.07M"
      }
      ...
    ],
    "treemap": {
      "name": "",
      "children": [
        {
          "name": "Cryptocurrency",
          "children": [
            {
              "name": "Bitcoin",
              "symbol": "BTC",
              "marketCap": 587500089261.447,
              "change": "-1.28"
            },
            {
              "name": "Litecoin",
              "symbol": "LTC",
              "marketCap": 6427022436.911877,
              "change": "-1.05"
            }
            ...
          ]
        }
      ]
    }
}
```

Fail response

Reponse Code: `500 Internal Server Error`

Get data for building candlestick graph

URL : `/graph_data?symbol=[symbol]`

Method : `GET`

Success Response

Code : `200 OK`

Return value: Json object of variation of price for `[symbol]`

Example:

```json
{
  "c": [
    184.21,
    184.34,
    184.9,
    184.11,
    184.12,
    183.5,
    183.14,
    183.26
    ...
  ],
  "h": [
    184.7,
    184.47,
    184.97,
    185.4,
    184.41,
    184.1,
    183.65,
    183.82,
    184.08
    ...
  ],
  "l": [
    184.21,
    184.15,
    184.18,
    183.89,
    183.88,
    183.2,
    182.6,
    183.12,
    183.14
    ...
  ],
  "o": [
    184.7,
    184.3,
    184.37,
    184.76,
    183.98,
```

```json
    184.06,
    183.46,
    183.12,
    183.17,
    184.05,
    184.13,
    184.12,
    184.56,
    185.06,
    184.82,
    184.44,
    183.96,
    183.7,
    183.79
    ...
  ],
  "s": "ok",
  "t": [
    1687348800,
    1687350600,
    1687352400,
    1687354200,
    1687356000,
    1687357800
    ...
  ],
  "v": [
    168681,
    90719,
    139812,
    5495164,
    3173256,
    3397468,
    3700188,
    2379687,
    2064202,
    2019935,
    1320666,
    1565700,
    1916231,
    1678781,
    1913282,
    4402708,
    ...
  ]
}
```

Fail response

Reponse Code: `500 Internal Server Error`

Get data for filling boxes in the Stock page

URL : `/stock_data?symbol=[symbol]`

Method : `GET`

Success Response

Code : `200 OK`

Return value: Json object of informations for `[symbol]`

Example:

```
{
  "price": "186.68",
  "change": "-0.17",
  "high": "187.56",
  "low": "185.01"
}
```

Fail response

Reponse Code: `500 Internal Server Error`