EDGAR Terminal

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Project Concept

A web browser app that takes financial data from official SEC filings and makes it easily accessible to retail investors and traders

An alternative to extremely expensive and exclusive financial data systems such as a bloomberg terminal

Create a place where the common person participating in the stock market can make informed investment decisions

We use a simple approach to reading XBRL and parsing into something useful!

How it all works!

```
            "value": "35,780,000"
        },
        "us-gaap:Assets": {
            "items": {
                "us-gaap:AssetsCurrent": {
                    "items": {
                        "us-gaap:CashAndCashEquivalentsAtCarryingValue": {
                            "items": {},
                            "value": "9,140,000"
                        },
                        "us-gaap:MarketableSecuritiesCurrent": {
                            "items": {},
                            "value": "13,862,000"
                        },
                        "us-gaap:PrepaidExpenseAndOtherAssetsCurrent": {
                            "items": {},
                            "value": "358,000"
                        }
                    },
                    "value": "23,360,000"
                },
                "us-gaap:RestrictedCashAndCashEquivalentsNoncurrent": {
                    "items": {},
                    "value": "500,000"
                },
                "us-gaap:PropertyPlantAndEquipmentNet": {
                    "items": {},
                    "value": "11,916,000"
                },
                "us-gaap:OperatingLeaseRightOfUseAsset": {
                    "items": {},
                    "value": "0"
                },
                "us-gaap:OtherAssetsNoncurrent": {
                    "items": {},
                    "value": "49,000"
```

XBRL Calculation Linkbases to Resolve Semantic Heterogeneity (M³)

Leveraging XBRL Calculation Linkbases to Overcome Semantic Heterogeneity across XBRL Fillings: The Multi-Ontology Multi-Concept Matrix (M³)

*Completed Research Paper*

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1. Results of our program (when it works) pictured left, other idea for parsing XBRL pictured right.
2. We don't use AI!
3. Pretty much every corporation has a different name for what we all know as cash, which can make parsing it difficult. But luckily for us almost every company has something that sounds a lot like cash listed in their current assets, whose name does not vary across different reports.
4. We rely on structure, and the omnipresence of a few entries across all reports in the XBRL format.

Use Cases and Use Case diagram
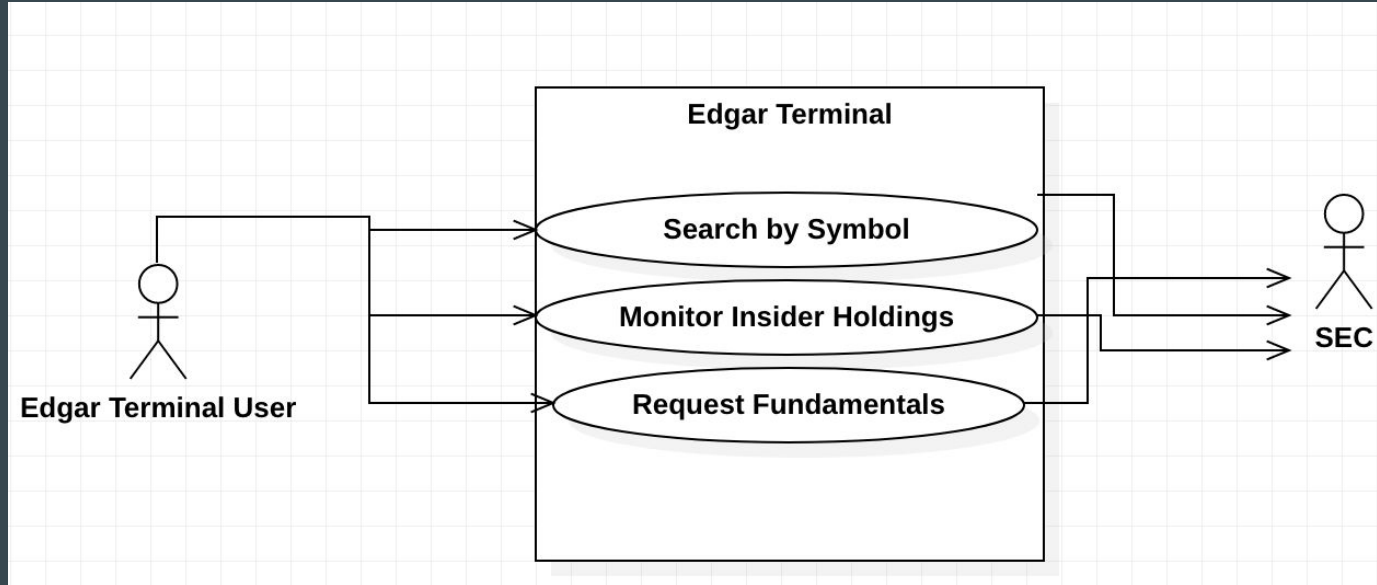
Functional Requirements

- Scraping data from SEC website
    - Find relevant data using CIK number
- Data Analysis
    - Give user relevant financial information
        - Ratios, Rates, Trends, etc.
- Insider holdings
    - Signals user for any insider movements
- Reactive Graphics
    - Visualize data in a simple but sophisticated way

Non Functional Requirements

- Usability
    - User friendly
    - Accessible for any type of user
- Performance
    - Minimal delay
- Reliability
    - Able to handle high amount of traffic
- Correctness
    - Provide accurate and transparent info

System constraints

- Tool Constraint
  - Python IDE
- Language Constraint
  - Python 3
- Platform Constraint
  - Web browser
- Hardware Constraint
  - Computer able to run a web browser

- Network Constraint
  - Internet connection
- Deployment Constraint
  - Self contained
- Transitionary Constraint
  - Obtaining files from SEC database

THANK YOU!

Any questions?