

Project: Magic Eden Floor Tracker (CLI Tool)

Goal

Create a command-line tool that takes an NFT collection slug (like 'degods') and fetches the current floor price, along with basic metadata, using the Magic Eden API.

Core Features

- Accept a collection slug via command-line argument or prompt
- Query Magic Eden's API to get:
 - Floor price
 - Collection name, symbol, listed count
- Display information nicely in terminal

Bonus Features

- Support multiple collection slugs
- Auto-refresh every N seconds
- Output formatted as table or JSON
- Add colored terminal output

Design Considerations

1. Input Handling:
 - Use `os.Args` or a CLI flag parser
2. API Request:
 - Use `net/http` to call Magic Eden API
 - Example endpoint: `https://api-mainnet.magiceden.dev/v2/collections/{slug}/stats`
3. JSON Parsing:
 - Use `encoding/json`
 - Define a struct for decoding response
4. Display Logic:
 - Format output cleanly in terminal
5. Error Handling:

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- Handle invalid input, network errors, bad responses

Stretch Goals

- Add a --watch flag to refresh price every 60 seconds
- Add a --csv flag to export results
- Use goroutines to fetch multiple collections in parallel
- Compile into standalone binary with `go build`

Skills Practiced

- HTTP GET requests
- JSON unmarshaling
- CLI flag and argument handling
- Go idiomatic error handling
- Struct organization and encapsulation
- (Optional) Concurrency with goroutines and tickers

Next Steps After This Project

- Monitor multiple collections with concurrency
- Store historical data in SQLite
- Build a desktop UI with Wails around this logic