

# Project 2: Listings Aggregator + CSV Exporter

## Project Title

Listings Aggregator + CSV Exporter (with Tests)

## Goal

Build a CLI tool that takes multiple Magic Eden collection slugs, fetches current active listings for each, and exports them to a CSV file.

## Core Features

- Accept collection slugs via command-line (e.g. `degods madlads`)
- Query Magic Eden listings endpoint for each slug
- Parse each listing to extract: collection, tokenMint, seller, price (SOL)
- Export all listings to a CSV file
- Support flags for output control (e.g., --limit, --max-price)

## CSV Output Format

Fields per row:

- collection (slug)
- seller (address)
- price (SOL)
- mint (token ID)

## Stretch Goals

- Filter listings by max price (e.g., --max-price 5.0)
- Limit listing count per collection (--limit)
- Sort listings by price
- Add JSON export option

## Required Tests

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You must write Go tests for the following:

- JSON unmarshalling into listing structs (using sample API responses)
- CSV writing function (check output contents)
- API fetch logic (use mock server or `httptest`)
- Optional: Test any filtering or sorting logic

### Recommended Structure

- main.go: CLI interface
- fetcher.go: handles API calls
- writer.go: handles CSV writing
- models.go: defines data structures
- \*\_test.go files: for unit testing each component