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# Excalidraw Generator (Docker + CLI + YAML to .excalidraw)

Generate Excalidraw diagrams automatically from text input (YAML/Markdown) using
a FastAPI Docker container and a CLI tool powered by `uv`.

## Features

- Self-contained Docker container with a FastAPI backend
- Upload YAML to generate `.excalidraw` files
- Minimal CLI using `uv` and `typer`
- Clean structure for future image export and Markdown support

## Quickstart

### 1. Build and Run the Docker API

```bash
docker-compose build
docker-compose up
```

The API will be available at: <http://localhost:8000>

## 2. Setup the CLI using `uv`

```
uv venv
uv pip install -e .
```

Now use the CLI command:

```
exgen generate api/sample.yaml
```

The output will be saved as `output.excalidraw`.

You can open the file at <https://excalidraw.com> or in your self-hosted Excalidraw instance.

## Input Format

Example YAML (`sample.yaml`):

```
rows:
 - text: "Hello from YAML"
 - text: "Second row"
 - text: "Another block"
```

## Project Structure

```
excalidraw-gen/
├── api/
│ ├── main.py # FastAPI endpoint
│ ├── generator.py # YAML to .excalidraw
│ └── sample.yaml # Example input
├── uv_tool/
│ ├── cli.py # CLI interface
│ └── __init__.py
├── Dockerfile # Python + FastAPI server
├── docker-compose.yml # Docker setup
└── pyproject.toml # uv + CLI definition
```

## Roadmap

- Add Markdown table to diagram support
- Export `.excalidraw` to PNG (via Puppeteer or `excalidraw-export`)
- Add `/render` endpoint
- Interactive UI to preview generated diagrams

## License

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