

Your Cookiecutter Is Wrong

Miloslav Pojman

EuroPython 2025, Prague

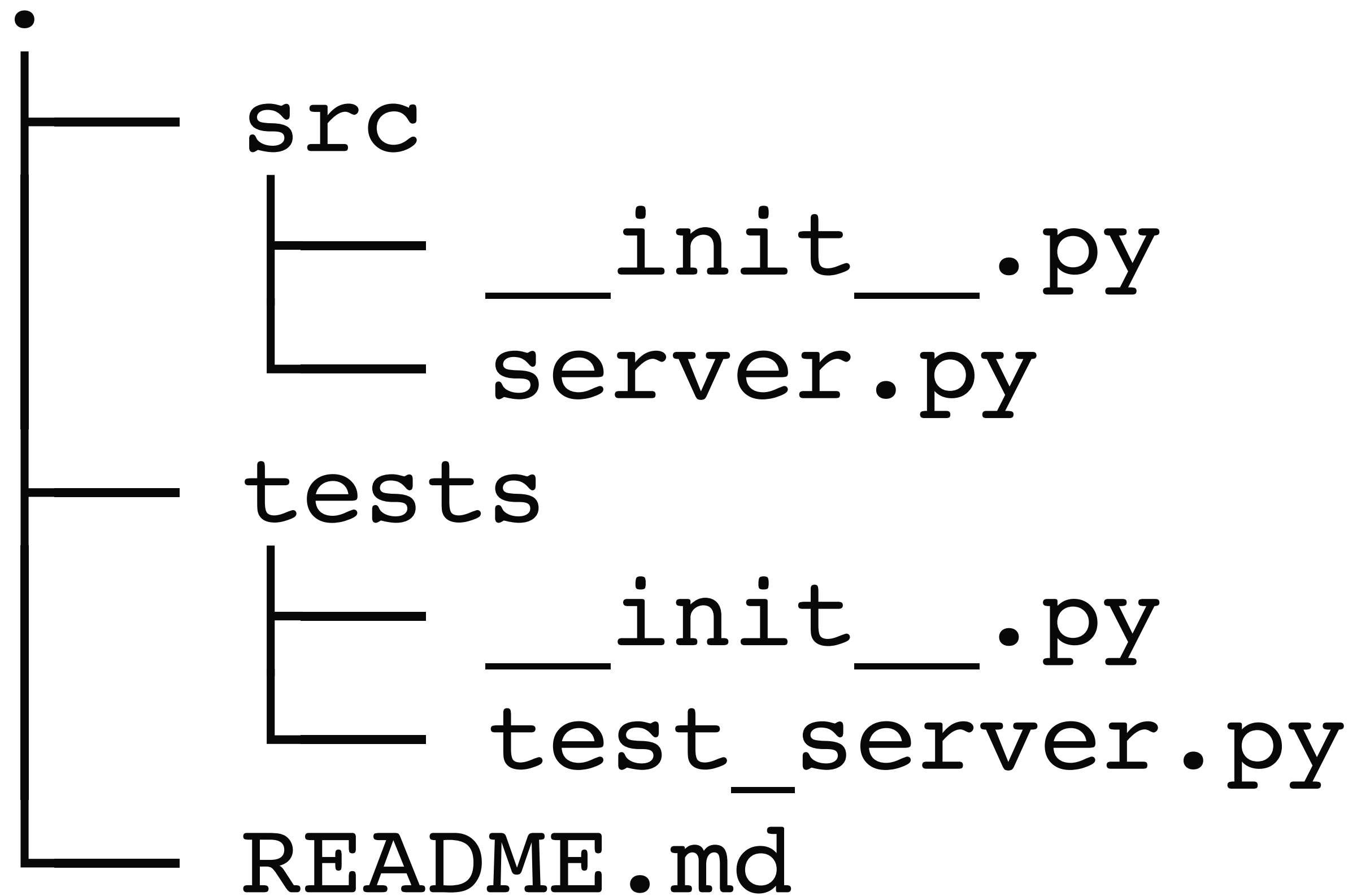
Miloslav Pojman

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fosstodon.org/@mila

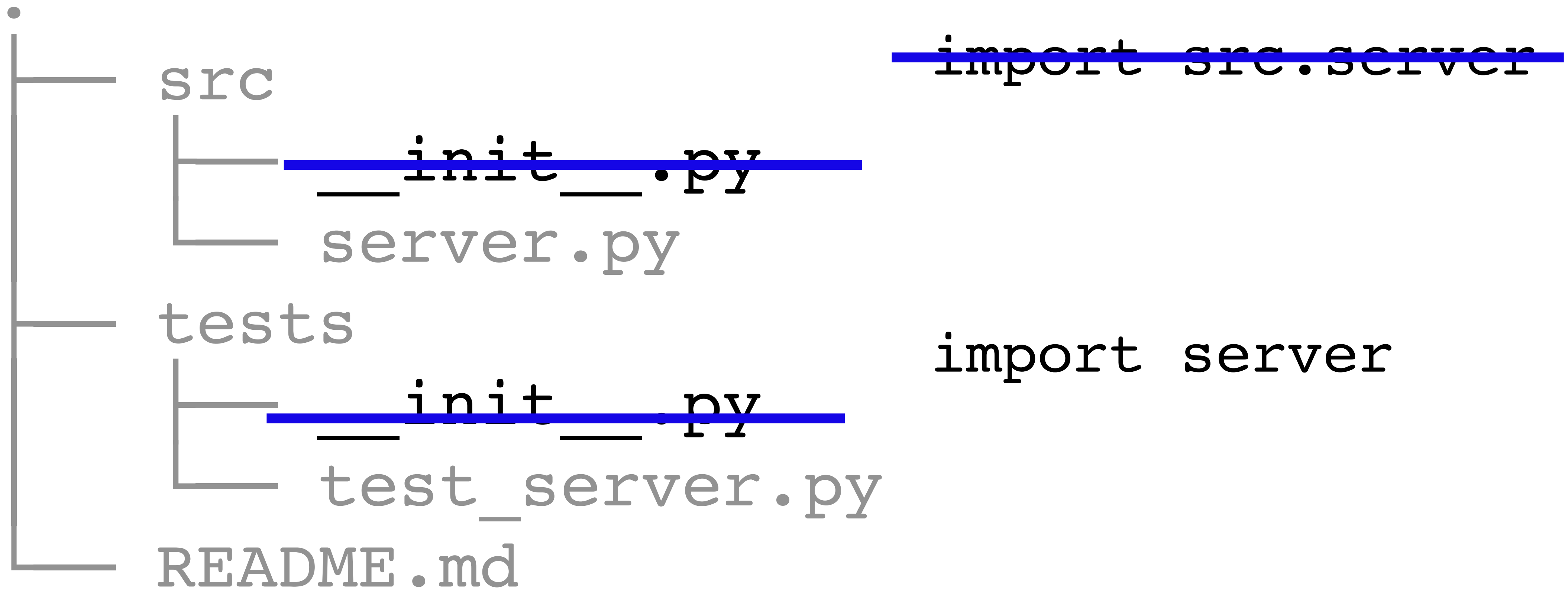


Motivation

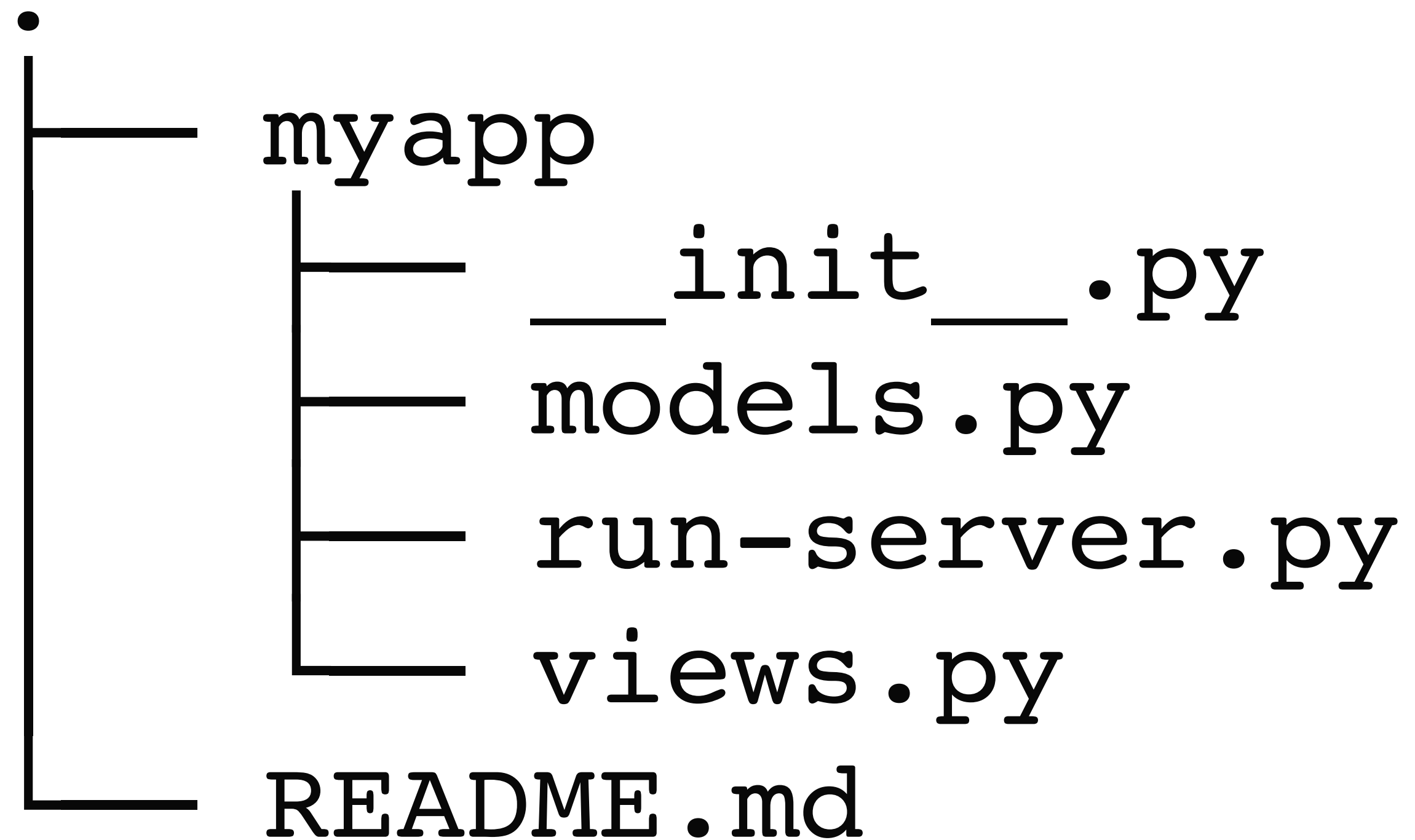
What's wrong here? (1)



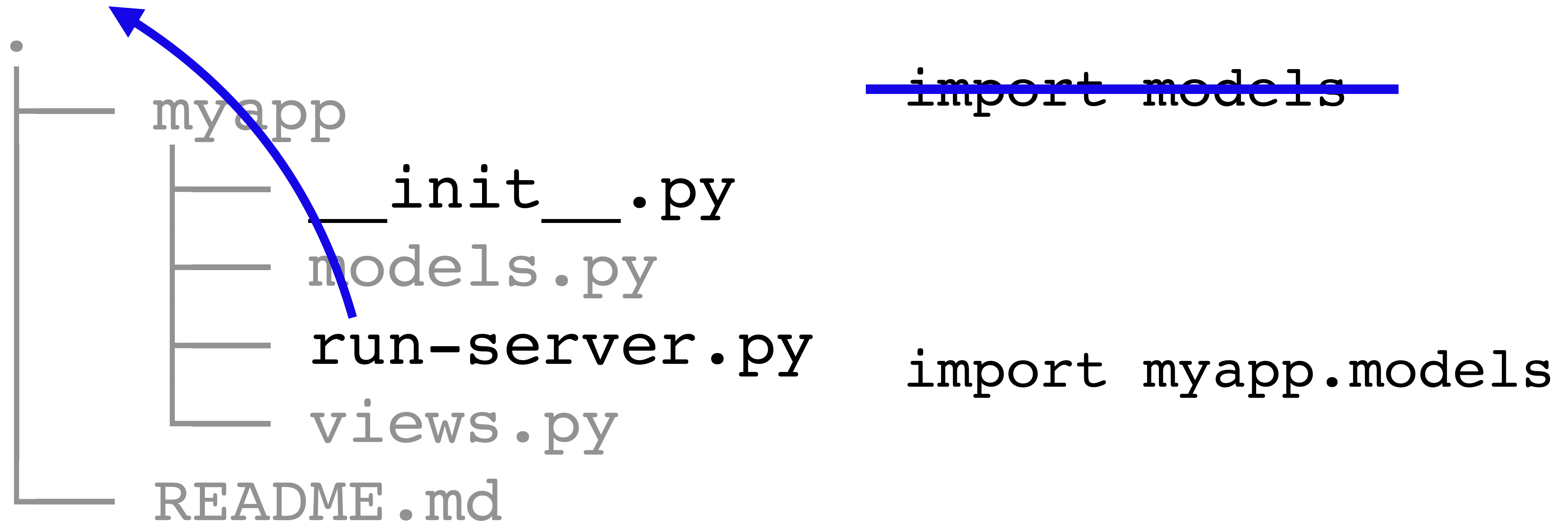
What's wrong here? (1)



What's wrong here? (2)

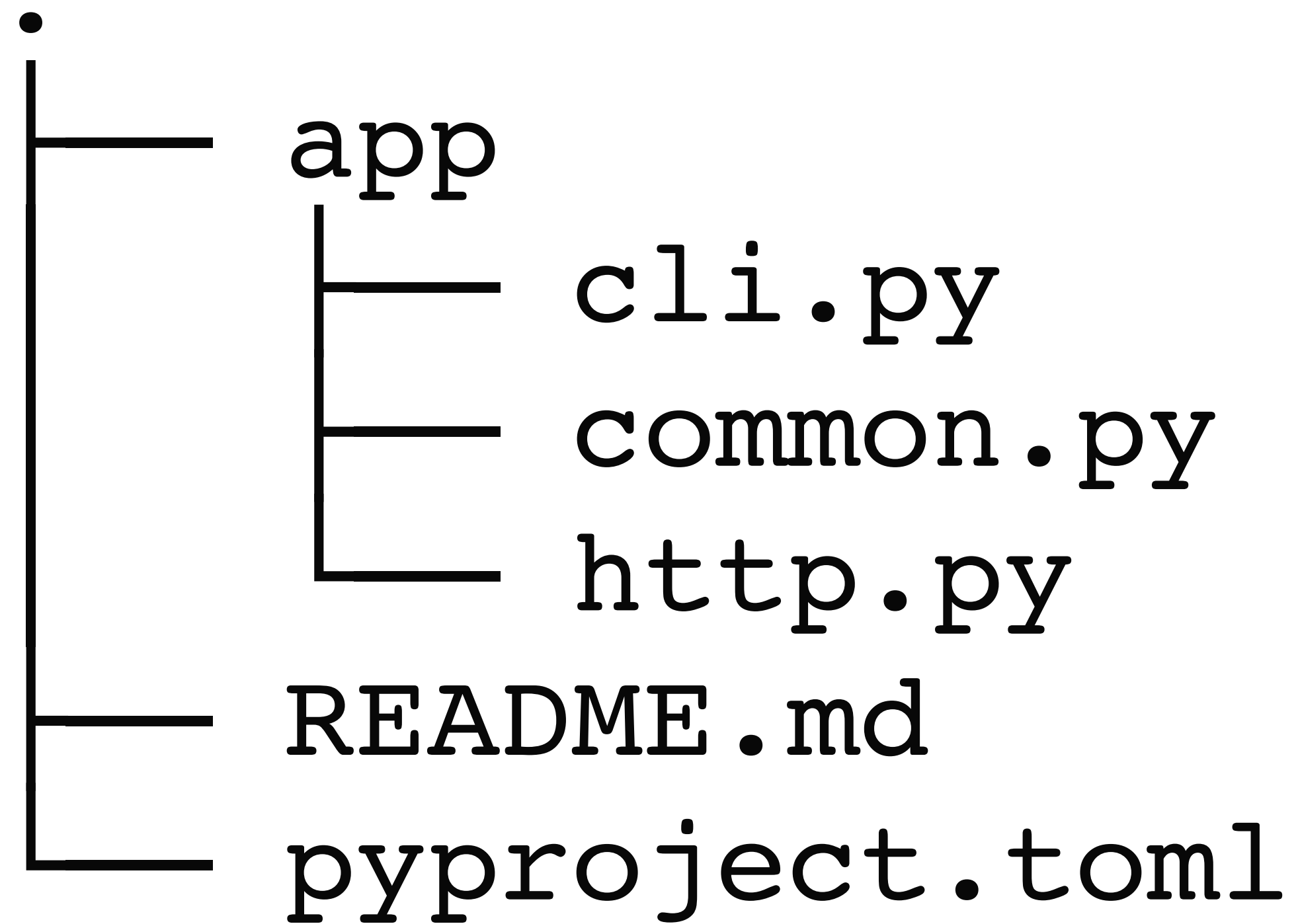


What's wrong here? (2)



~~python ./myapp/run_server.py~~

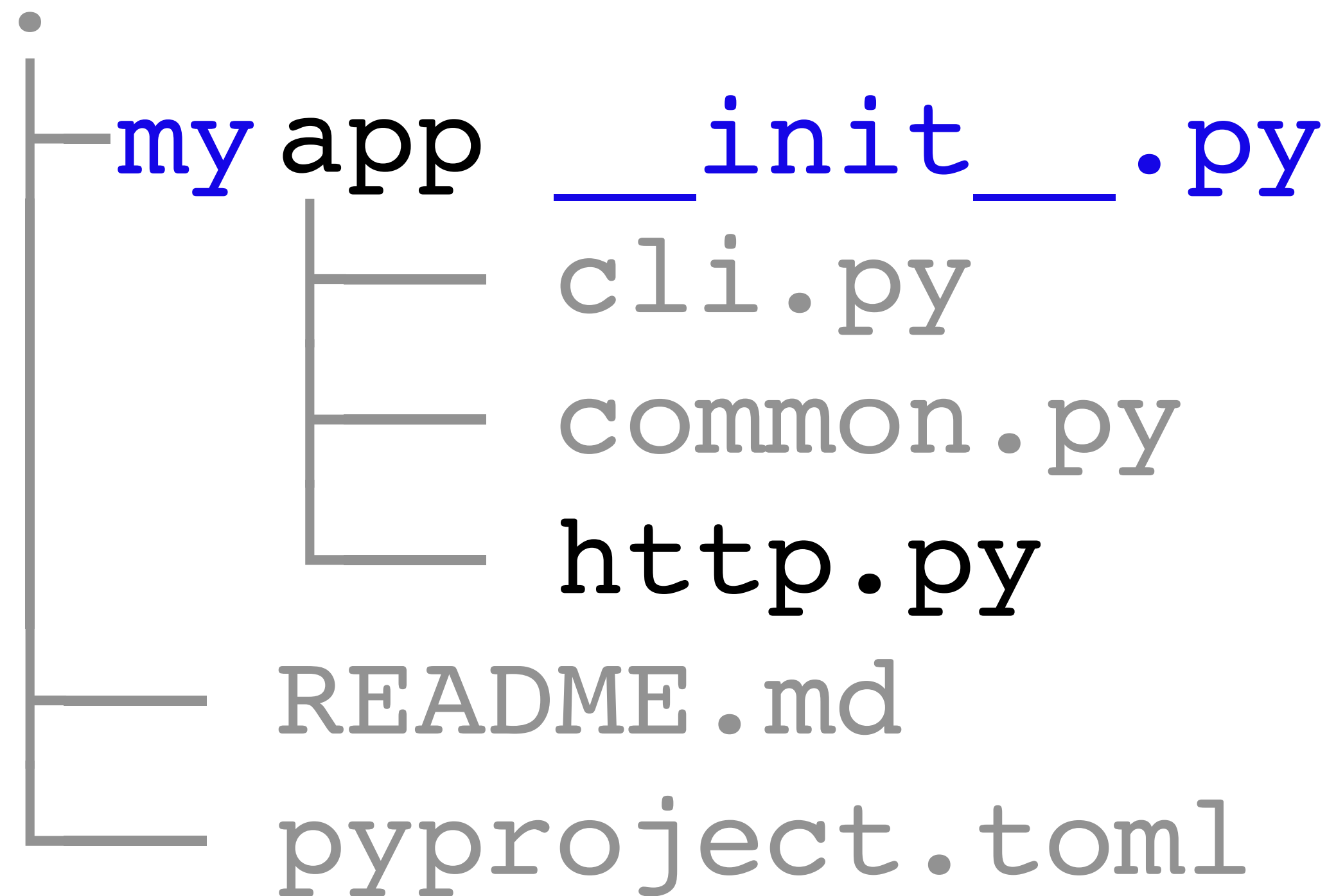
What's wrong here? (3)



```
import app.http
```

```
import http
```

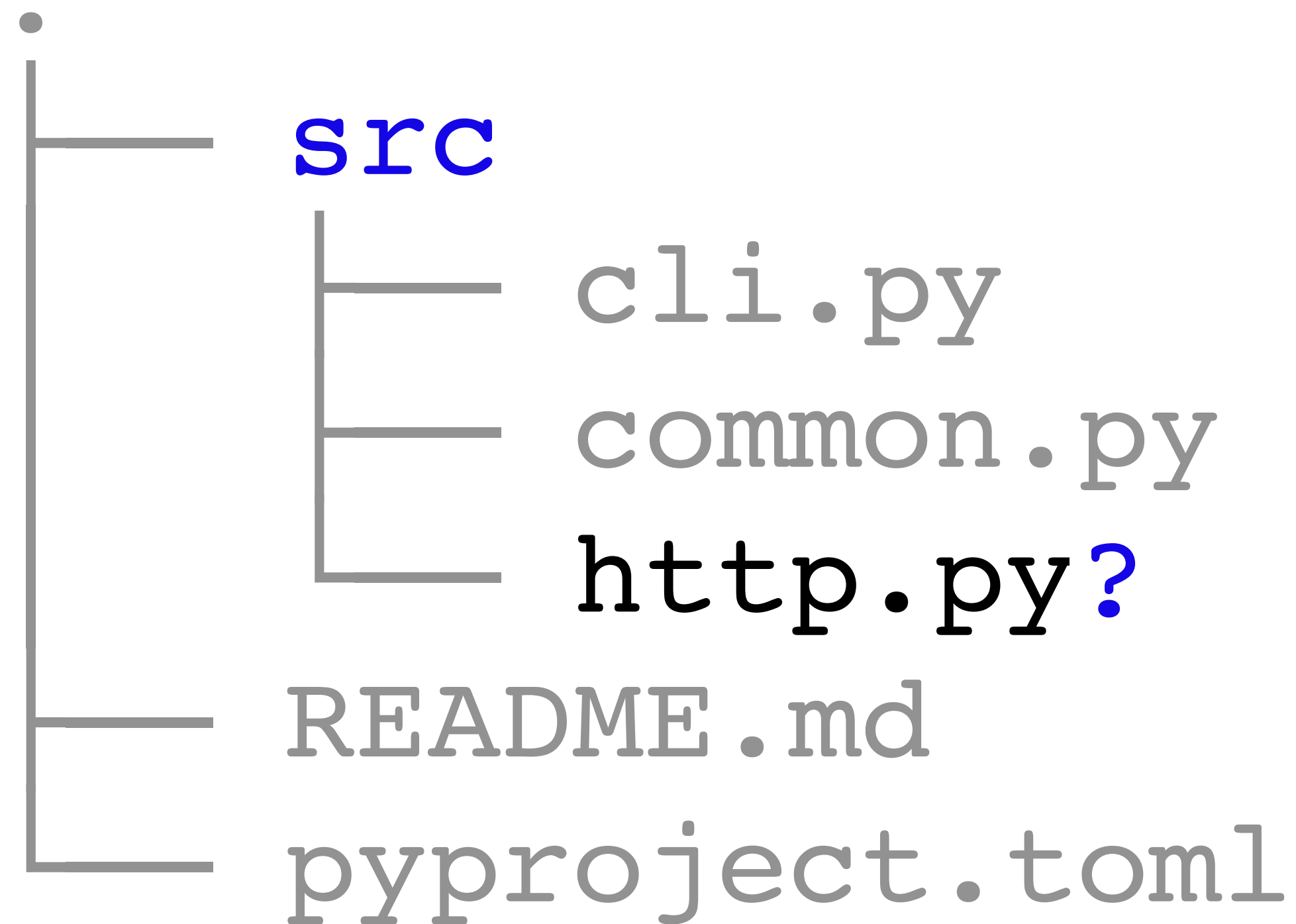

What's wrong here? (3)



```
import app.http
```

```
import http
```

What's wrong here? (3)



```
import app.http
```

```
import http
```

Bonus

<code>_sphinx_13448_workaround/</code>	<code>docs/</code>	<code>pyproject.toml</code>
<code>accounts/</code>	<code>foundation/</code>	<code>README.rst</code>
<code>aggregator/</code>	<code>fundraising/</code>	<code>releases/</code>
<code>blog/</code>	<code>legacy/</code>	<code>requirements/</code>
<code>contact/</code>	<code>LICENSE</code>	<code>setup.cfg</code>
<code>dashboard/</code>	<code>locale/</code>	<code>svntogit/</code>
<code>djangoproject/</code>	<code>Makefile</code>	<code>tox.ini</code>
<code>docker-compose.yml</code>	<code>manage.py*</code>	<code>tracdb/</code>
<code>docker-entrypoint.dev.sh*</code>	<code>members/</code>	<code>update-translations.sh*</code>
<code>Dockerfile</code>	<code>Procfile</code>	

Goals

Project Layout

1:1 mapping between Python files and modules

Easy to run and test

Back to Basics

How to run Python code?

```
python myapp.py
```



```
python -m myapp
```

myapp

How to install Python code?

```
unzip myapp.zip
```

```
pip install myapp
```


unzip myapp.zip

pip install myapp

python myapp.py



python -m myapp



myapp



Simple or Packaged Application

Simple Approach

Development

```
pip install -r requirements.txt  
python main.py
```

Production

```
pip install -r requirements.txt  
cp . /app/  
python /app/main.py
```


Packaged Application

Development

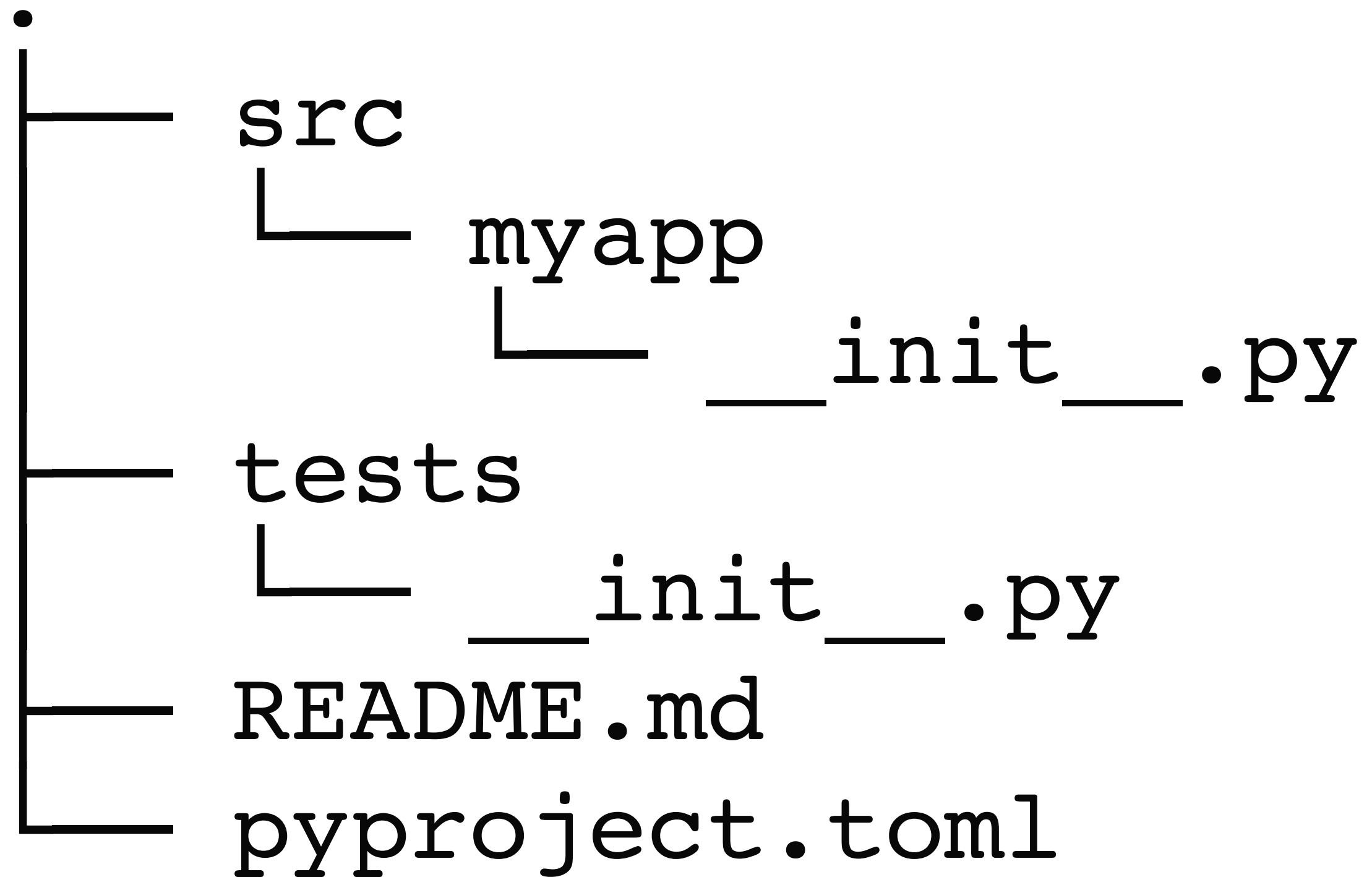
```
pip install -e .  
myapp
```

Production

```
pip install .  
myapp
```


Poetry

```
poetry new myapp
```

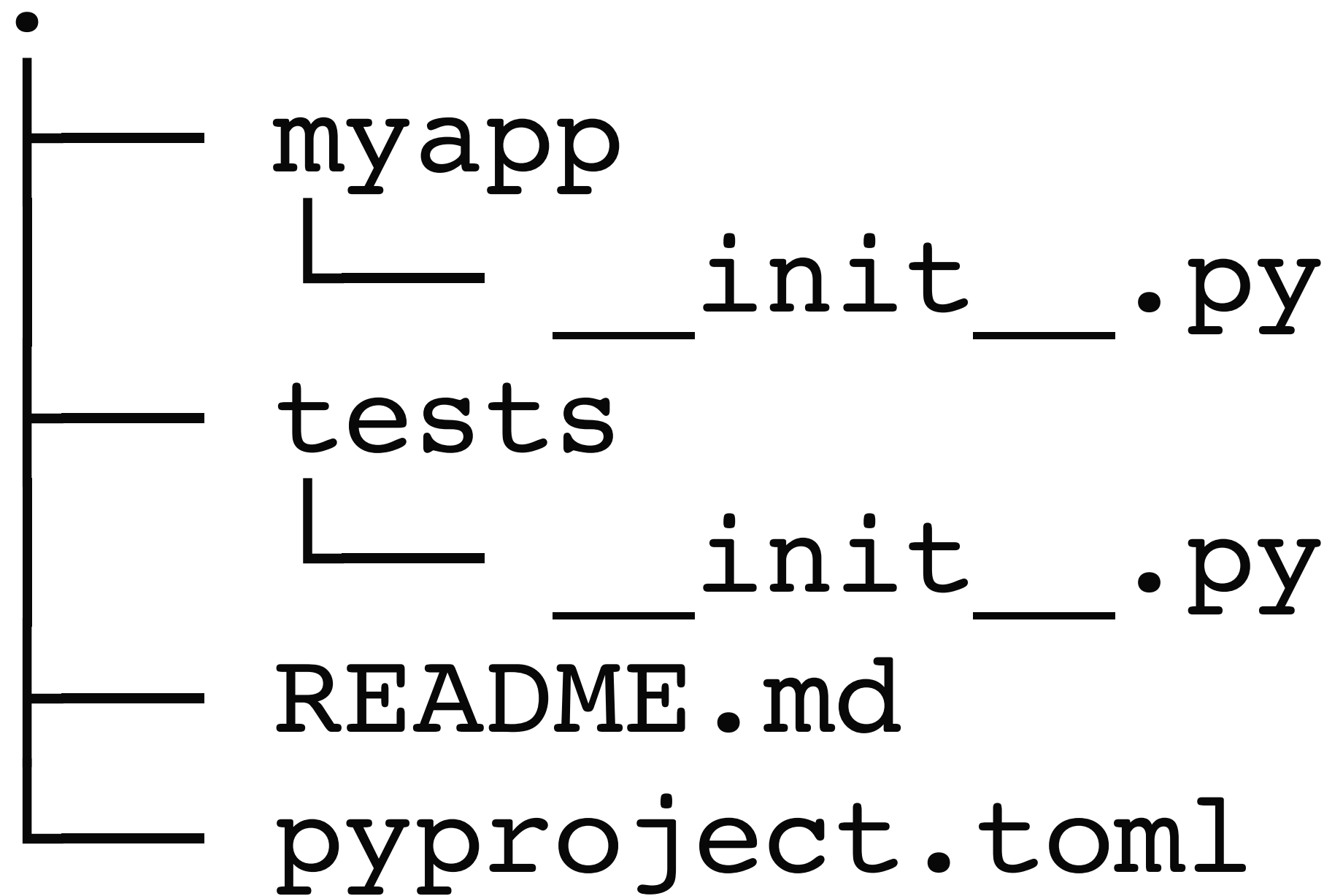


```
[tool.poetry]  
packages = [{include = "myapp", from = "src"}]
```

```
[build-system]  
requires = ["poetry-core>=2.0.0,<3.0.0"]  
build-backend = "poetry.core.masonry.api"
```



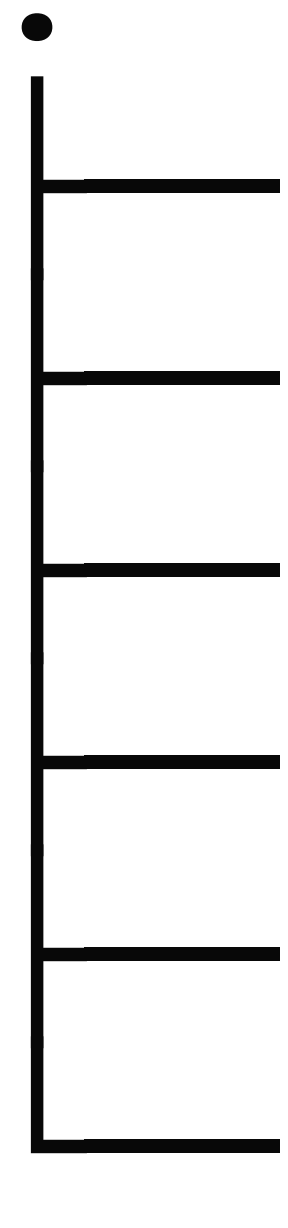
```
poetry new myapp --flat
```



```
[tool.poetry]  
package-mode = false
```

uv

uv init



-
- .git
- .gitignore
- .python-version
- README.md
- main.py
- pyproject.toml

uv init --package

```
•
├── .git
├── src
│   └── myapp
│       └── __init__.py
├── .gitignore
├── .python-version
├── README.md
└── pyproject.toml
```


pyproject.toml

```
[project.scripts]  
myapp = "myapp:main"
```

```
[build-system]  
requires = ["hatchling"]  
build-backend = "hatchling.build"
```

Simple

28 templates

40k GitHub ★

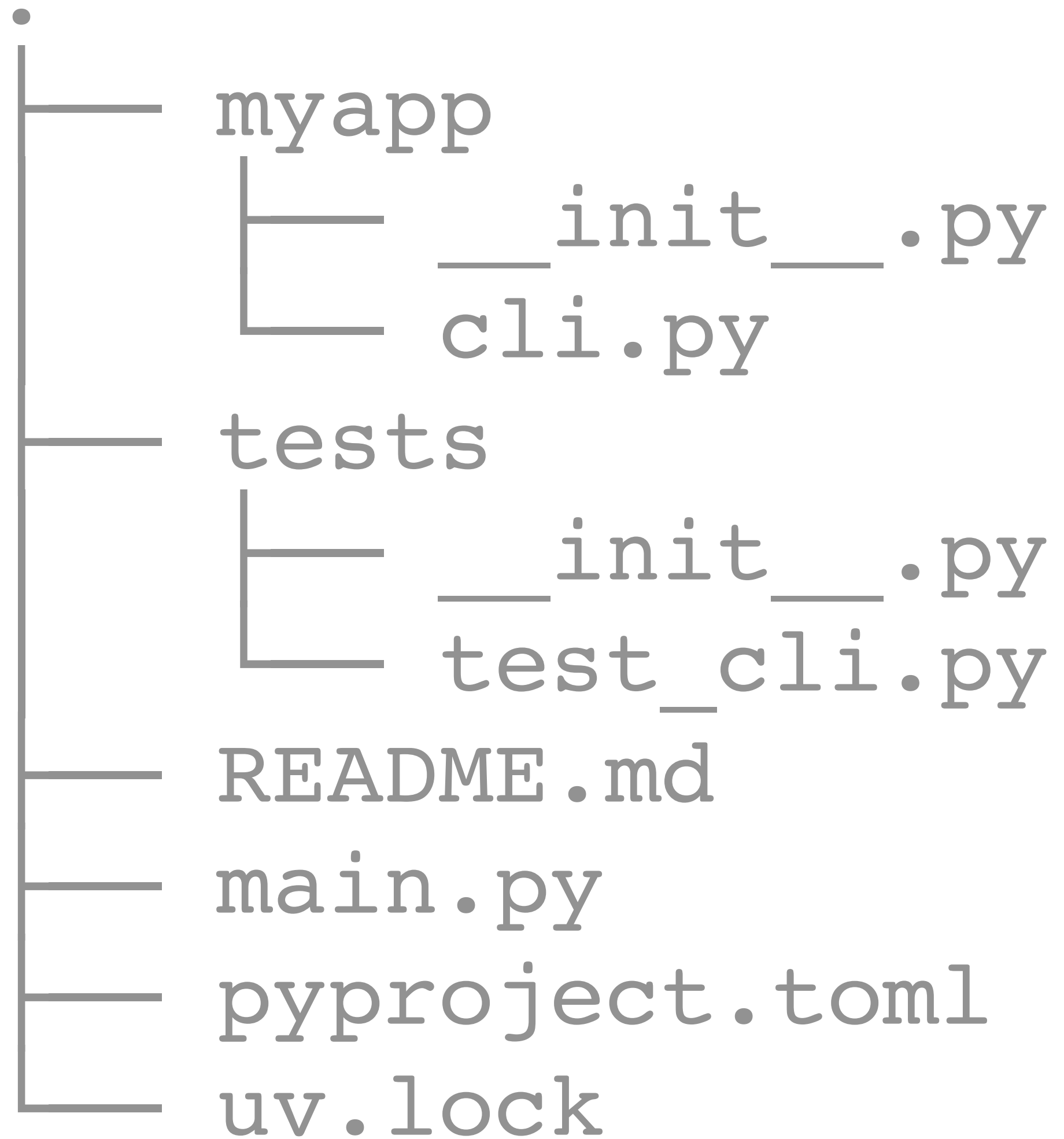
Packaged

10 templates

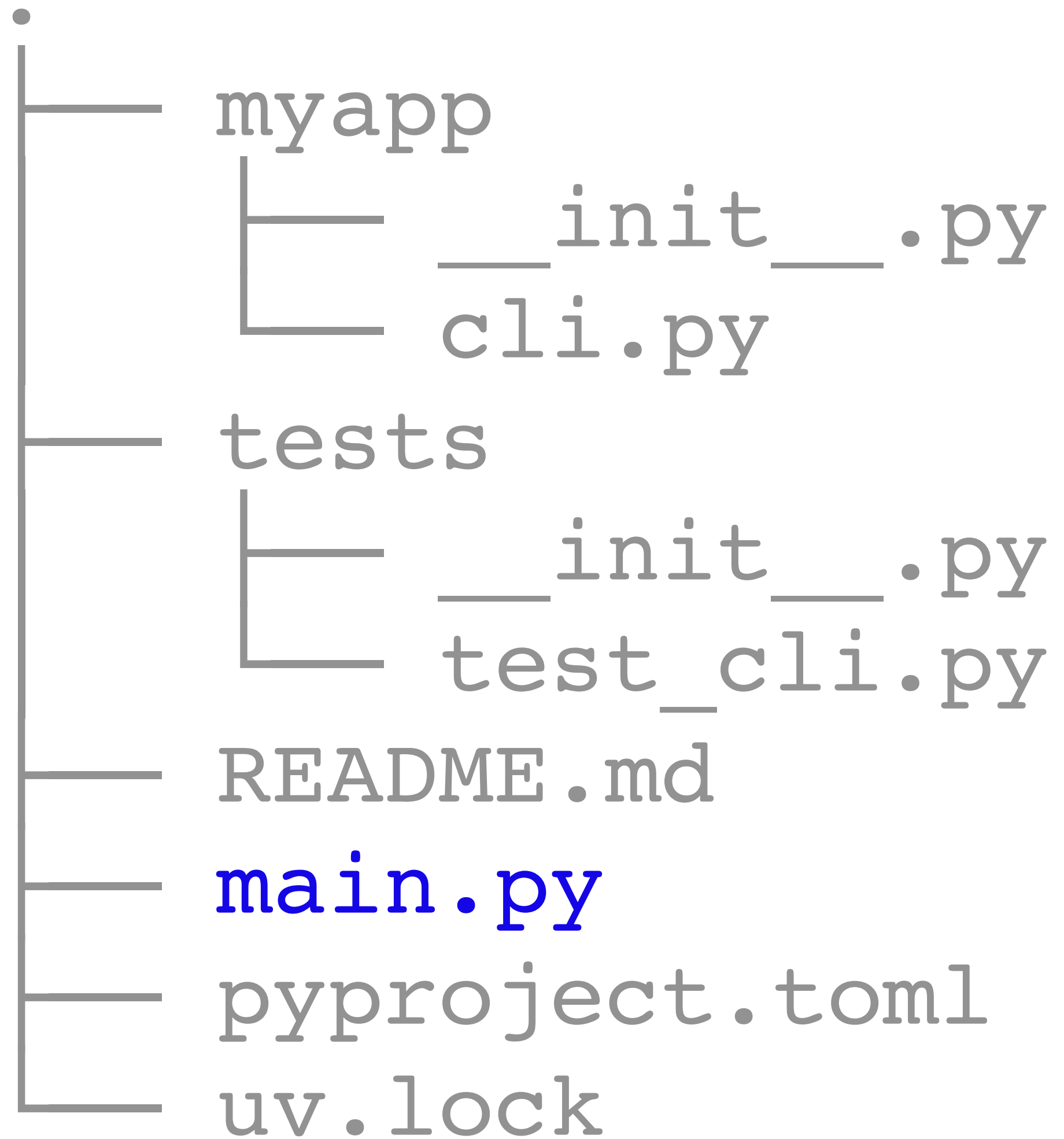
40k GitHub ★

Recommended Layouts

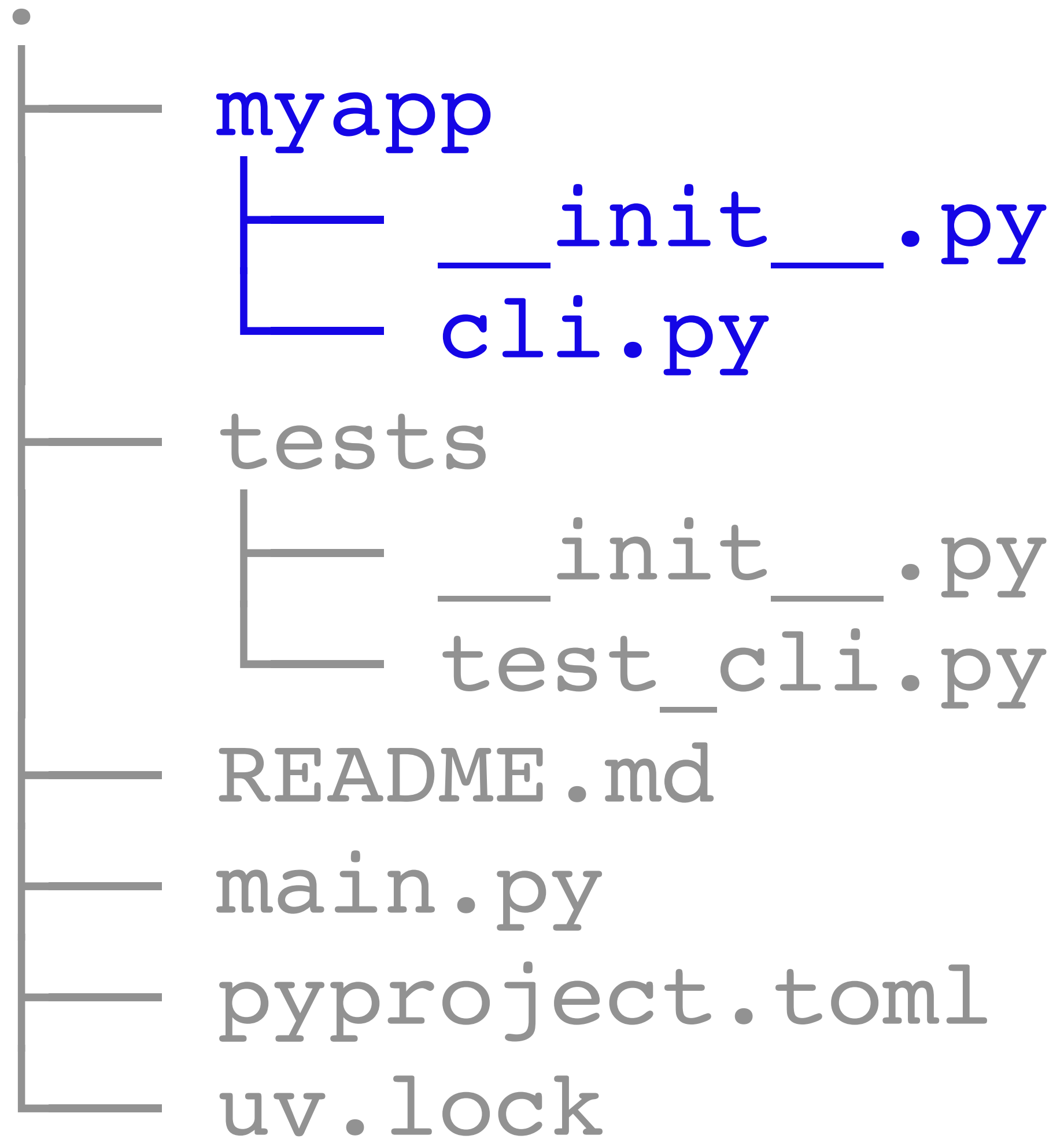
Simple Approach



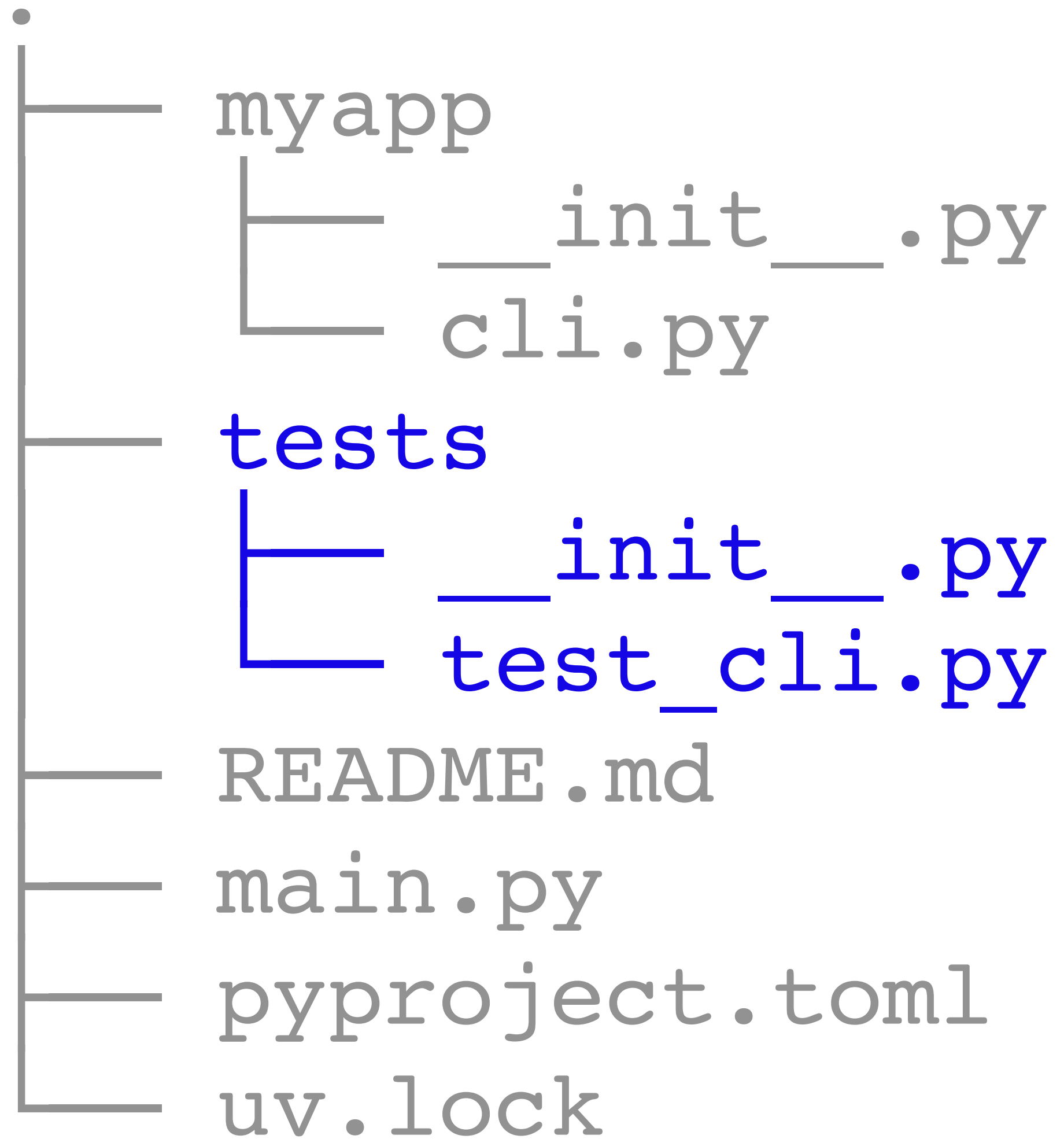
Simple Approach



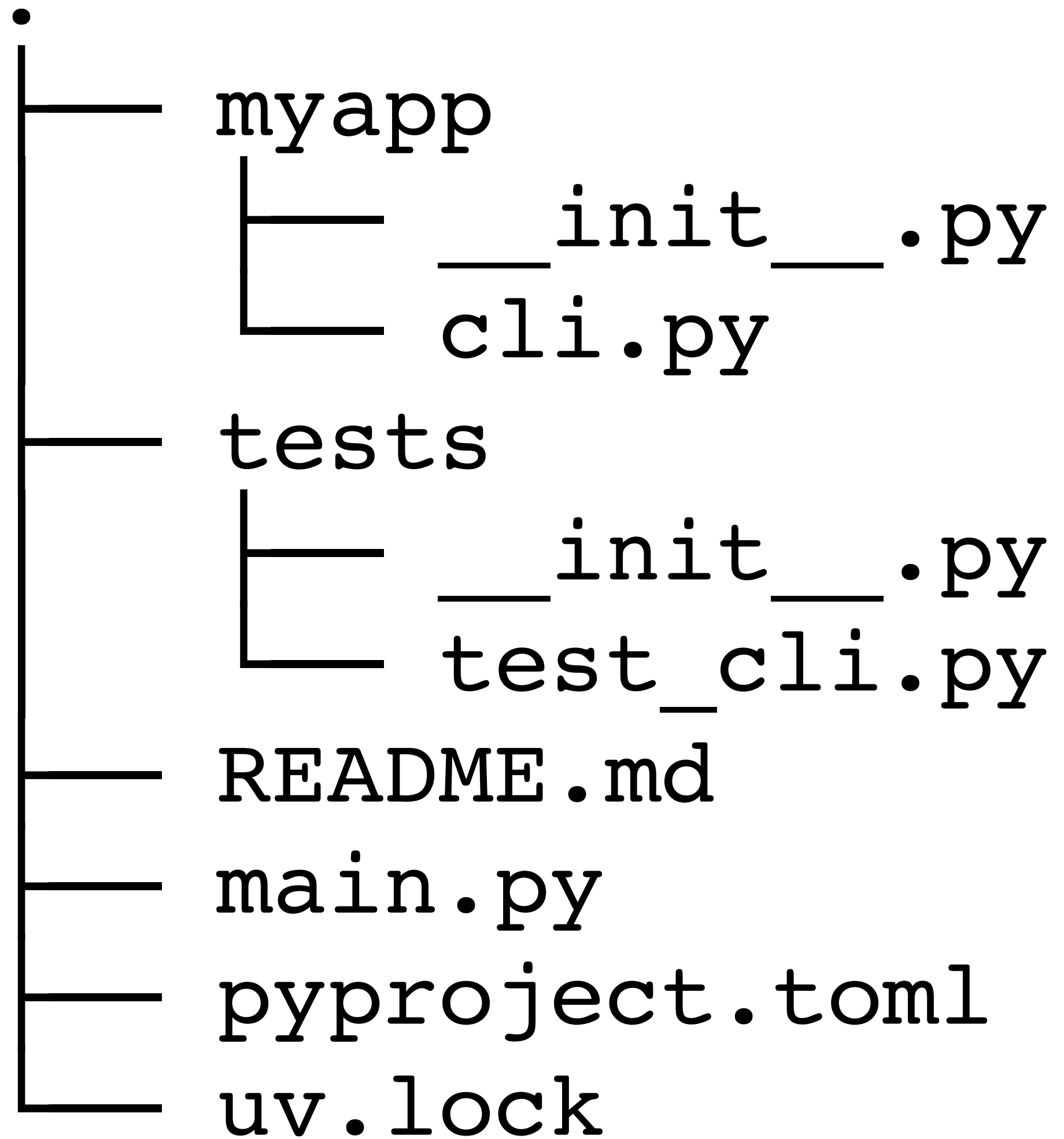
Simple Approach



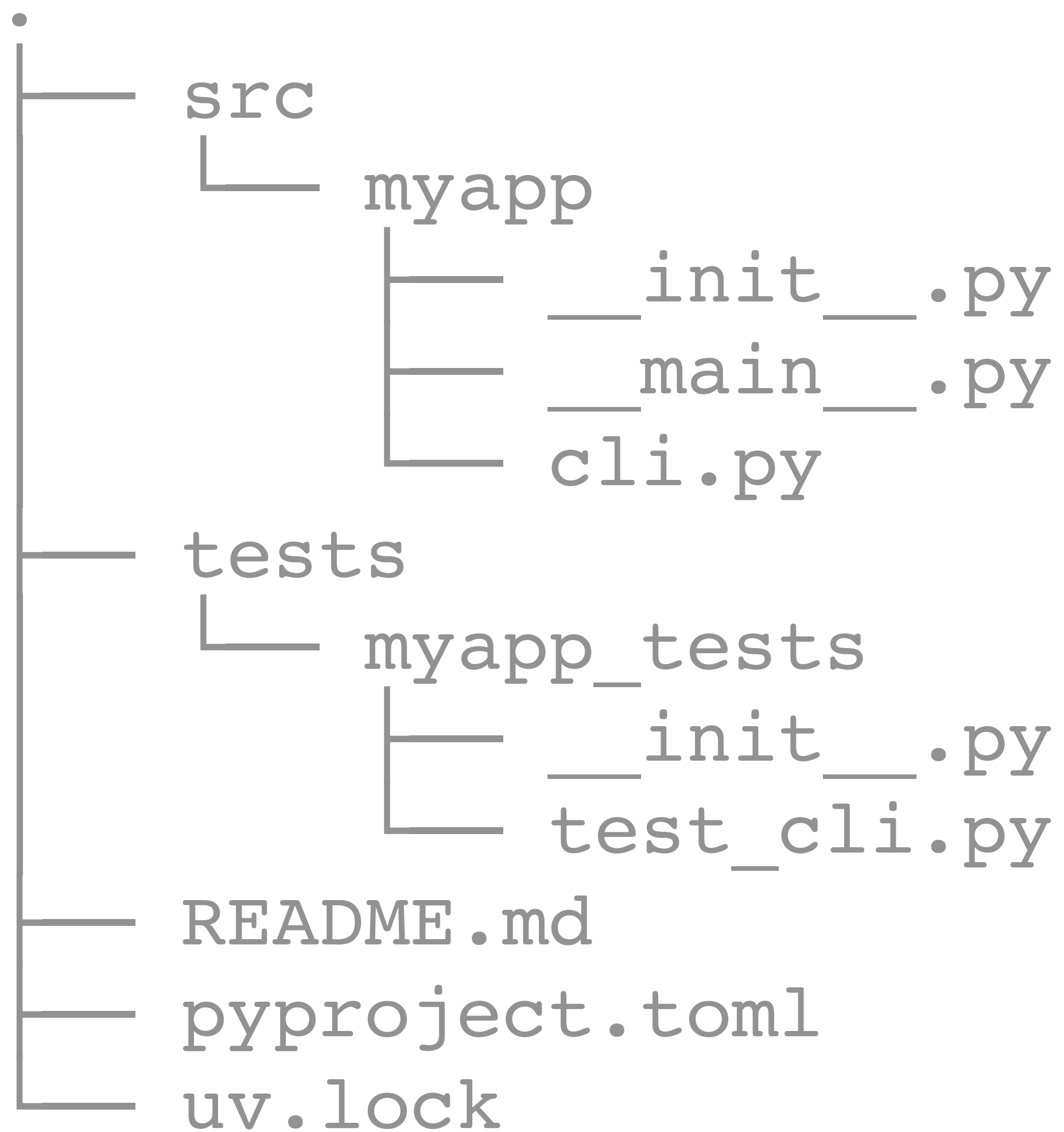
Simple Approach



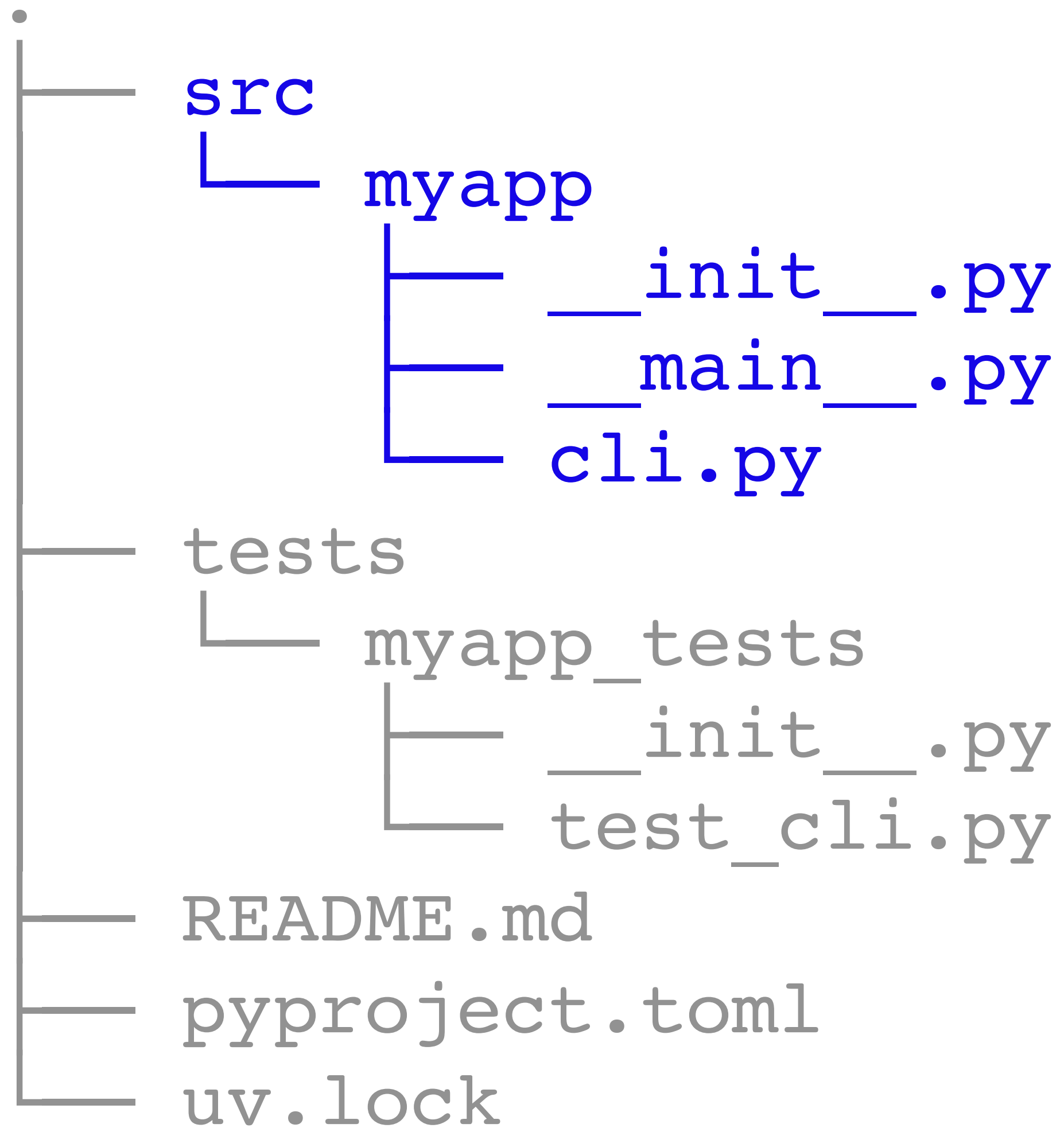
Simple Approach



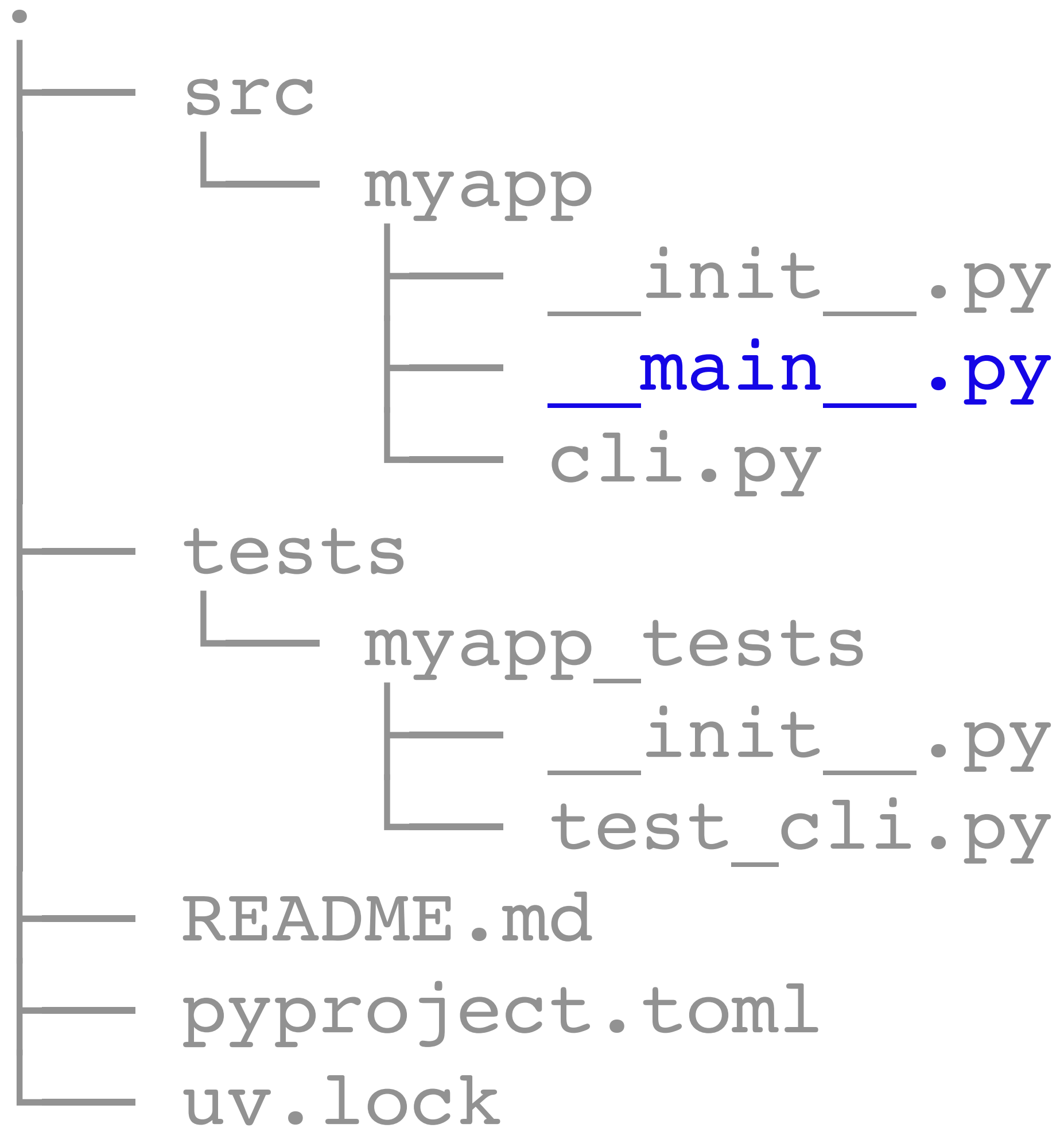
Packaged Application



Packaged Application

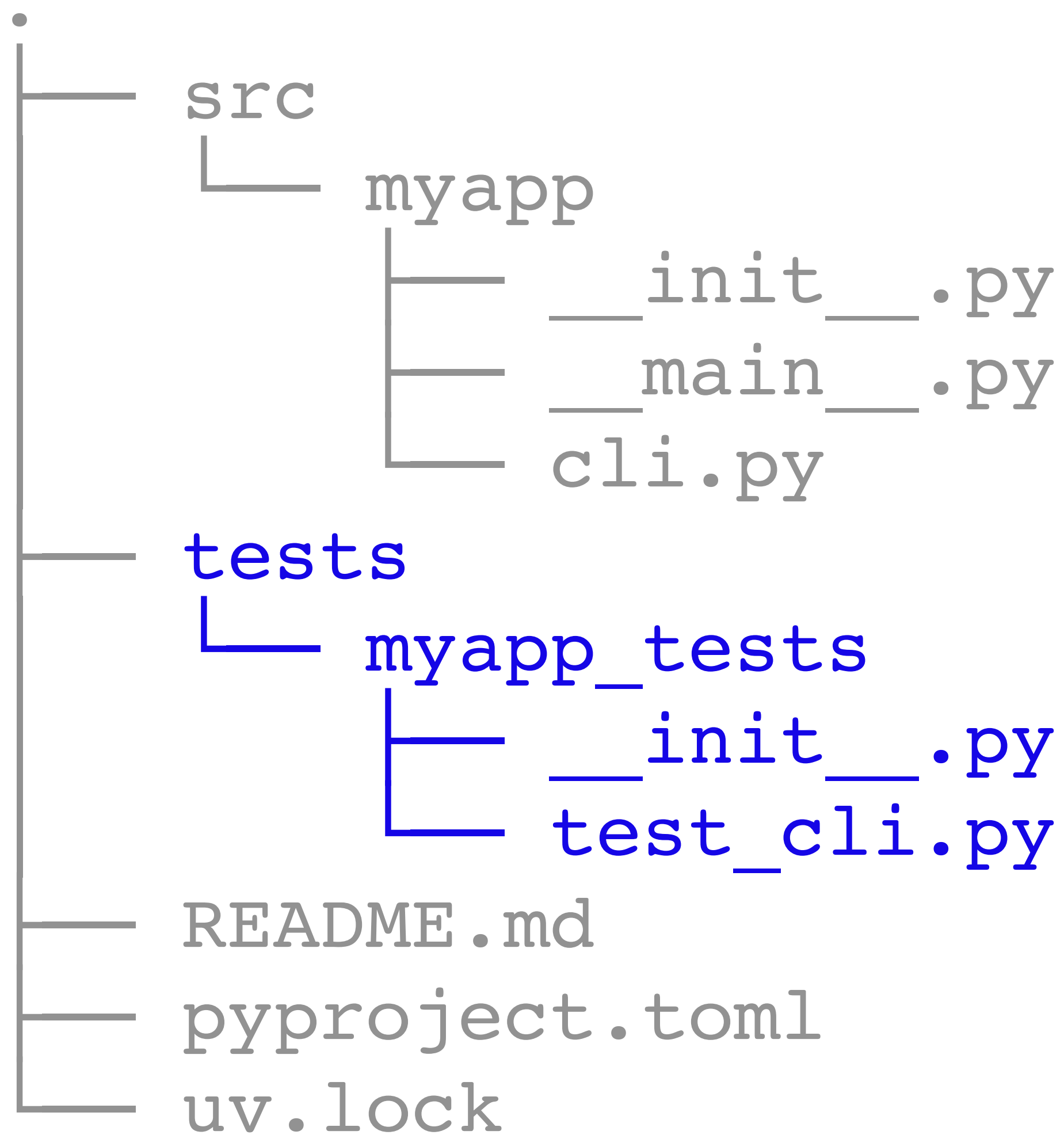


Packaged Application

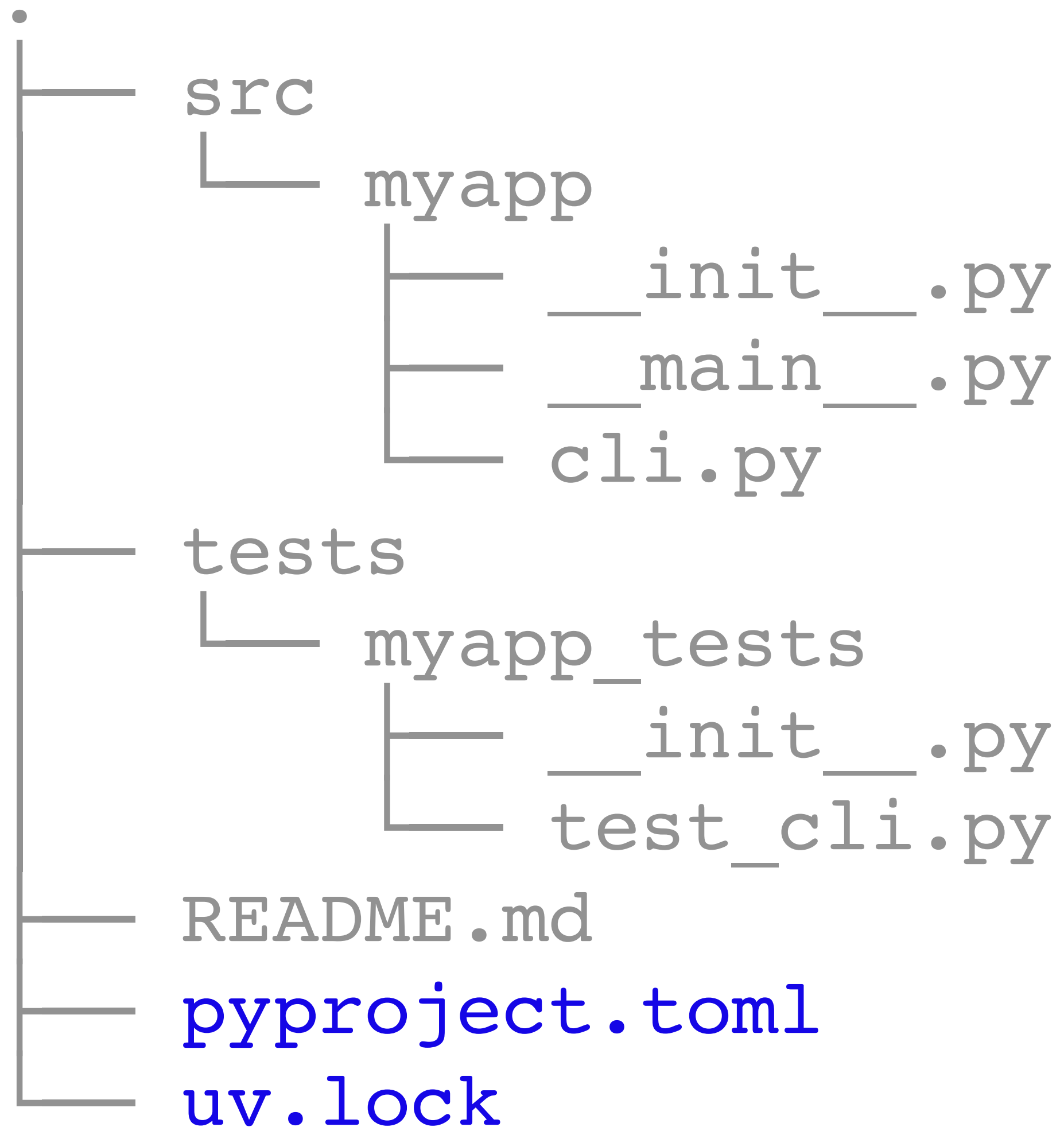


`python -m myapp`

Packaged Application



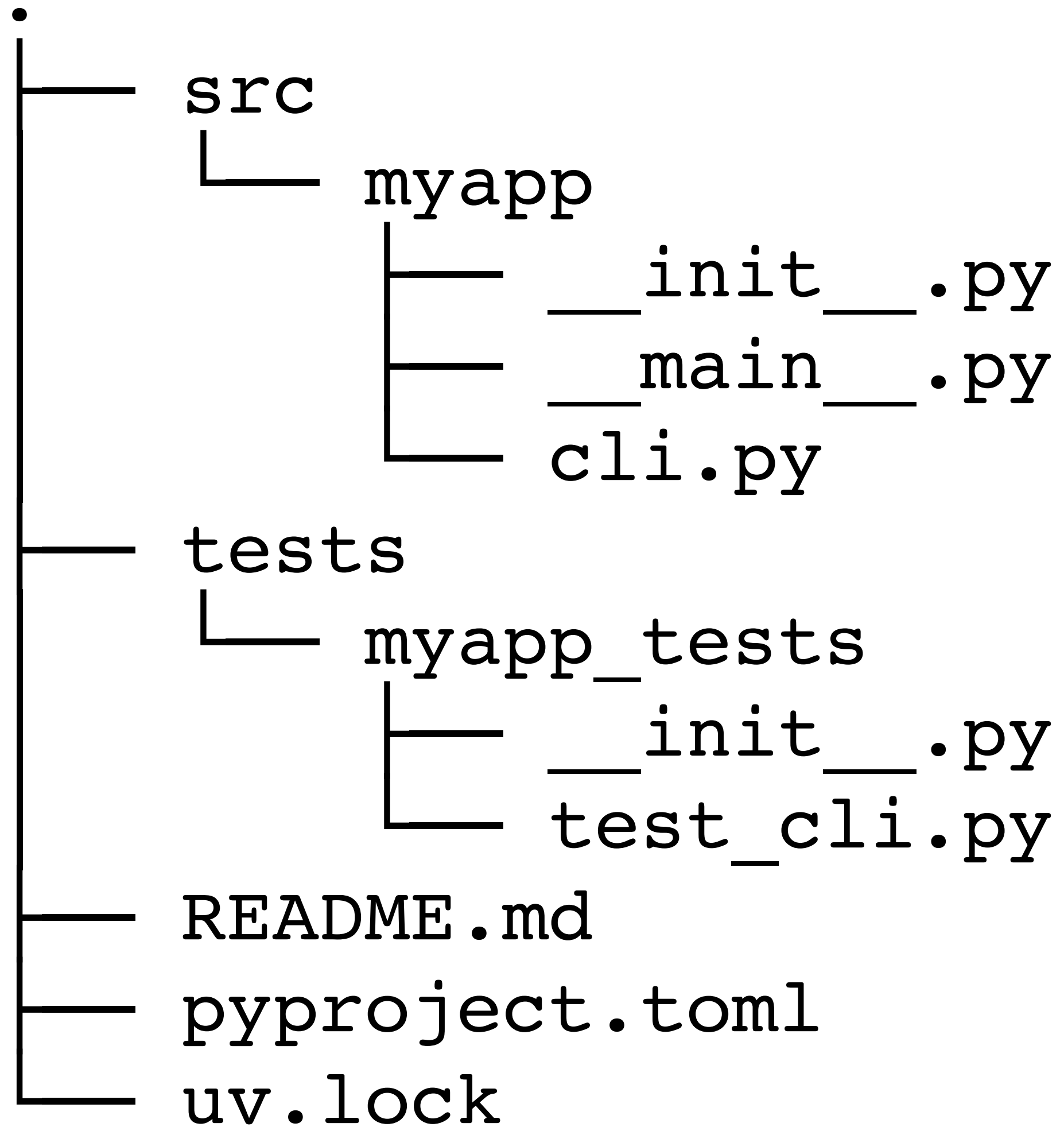
Packaged Application

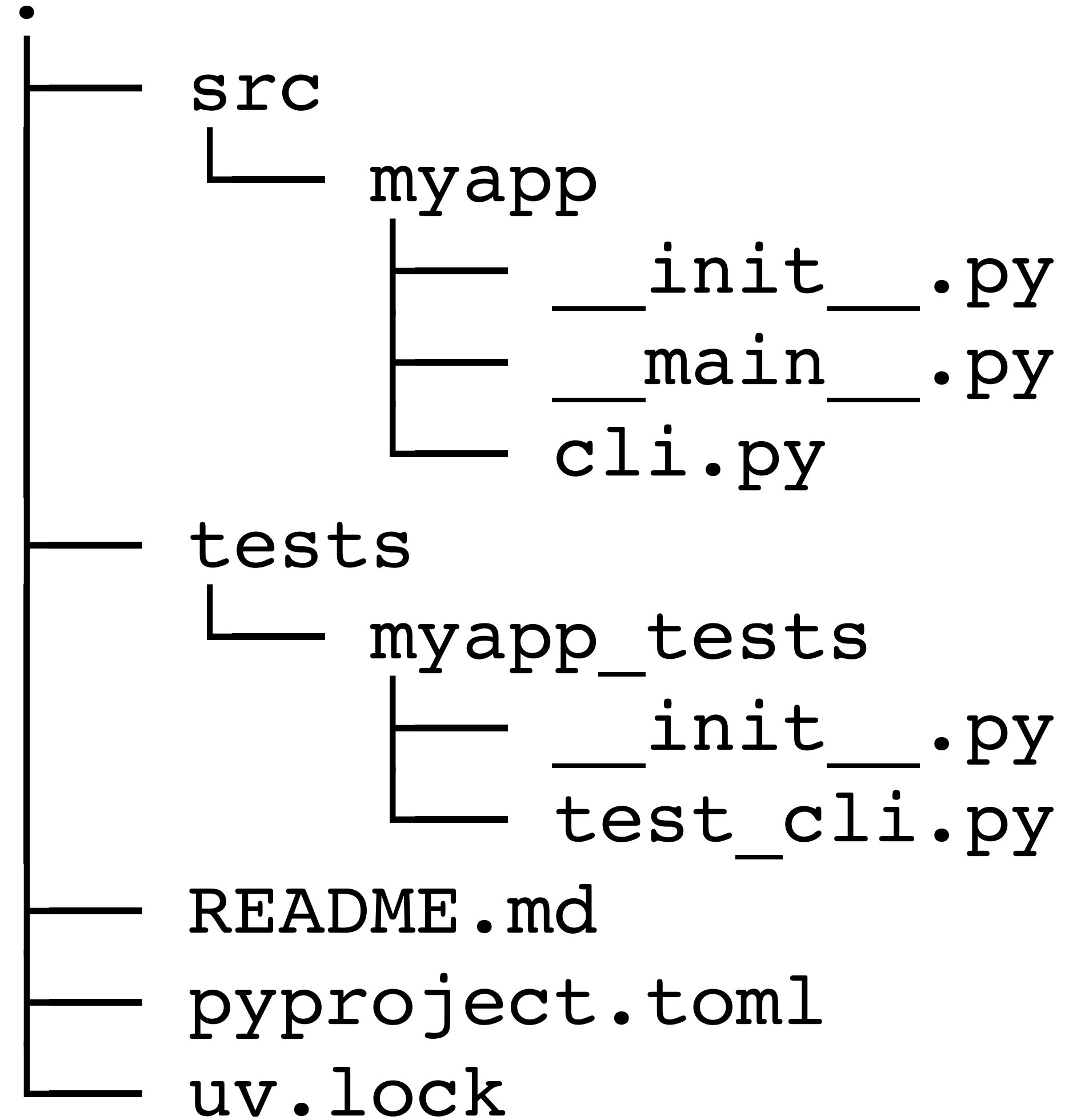
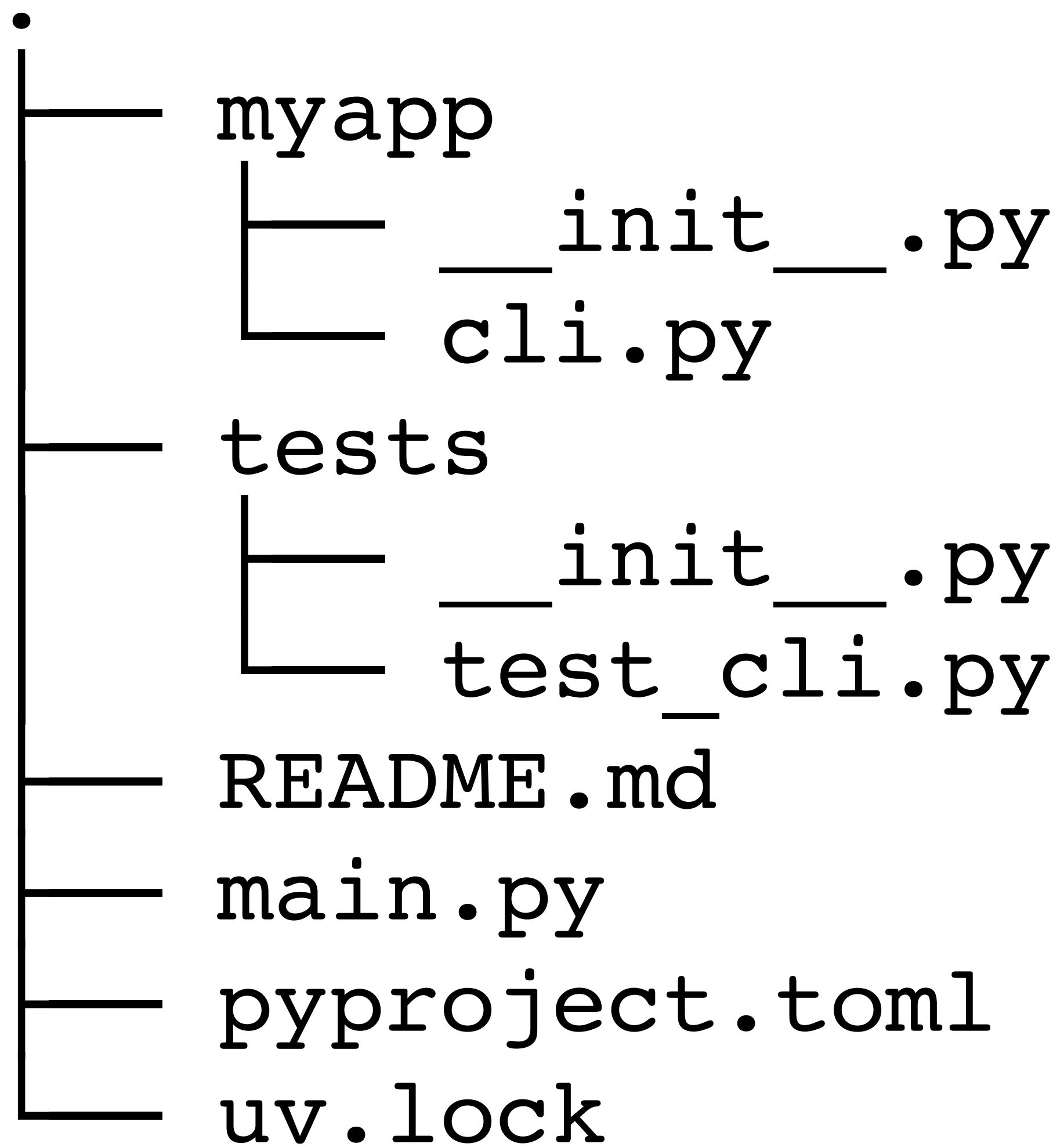


```
[project.scripts]
myapp = "myapp.cli:main"

[build-system]
requires = ["uv_build"]
build-backend = "uv_build"
```

Packaged Application





Your Cookiecutter Is Wrong

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