

Ultralyzer

A pipeline to analyze retinal UltraWidefield images using MVC GUI structure and background processing.

Project Structure

```
Ultralyzer/  
├── LICENSE  
├── README.md  
├── pyproject.toml  
├── src/  
│   └── ultralyzer/  
│       ├── __init__.py  
│       ├── apps/  
│       │   ├── __init__.py  
│       │   ├── app_factory.py  
│       │   └── app.py  
│       ├── controllers/  
│       │   ├── __init__.py  
│       │   └── main_controller.py  
│       ├── models/  
│       │   ├── __init__.py  
│       │   └── image_model.py  
│       ├── views/  
│       │   ├── __init__.py  
│       │   └── main_view.py  
│       └── utils/  
│           ├── __init__.py  
│           └── db_utils.py  
├── tests/  
│   ├── __init__.py  
│   └── test_app.py  
└── requirements.txt
```

Modules

- **apps**: Application entrypoints and factory.
- **controllers**: GUI controllers.
- **models**: Data models (e.g. SQLite database interactions).
- **views**: GUI layouts.
- **utils**: Utility functions (e.g. image processing, DB utils).