```
UrbanEye
urbaneye/
    - frontend/
                        # Police Dashboard (HTML/CSS/JS)
      — public/
                        # Static files
                          # Main dashboard
        — index.html
         control.html
                          # Drone manual control
          incidents.html # Crime log viewer
       - src/
                       # JavaScript & Styles
                          # Core logic
            — main.js
                          # Leaflet/Mapbox integration
             – map.js
                        # Fetch/Python API calls
             – api.js
          - css/
         - # Main styles

    dark-theme.css # Police dark mode

                        # Images/icons
       - assets/
         drone-icon.svg
         - alert-bell.mp3
     backend/
                         # Python (Flask/FastAPI)
       - main.py
                         # App entry point
                       # API endpoints
       - api/
          ___init___.py
                          # /takeoff, /alerts, etc.
          routes.py
         middleware.py
                            # Auth/security
       - drone/
                        # Drone control
        — controller.py
                          # takeoff(), land(), patrol()
          - comms.py
                           # MAVLink/DroneKit logic
          – firmware/
                          # C/C++ integration
          — flight_plan.c # Custom flight logic
            - README.md
        ai/
                      # Crime detection
          detection.py
                           # OpenCV/YOLO logic
          - training/
                         # ML model training
             train_yolo.py
             - dataset/
          - models/
                          # Pretrained models
```

```
yolov8n.pt
         README.md
    database/
                     # Data storage
                  # PostgreSQL/SQLite
     – sql/
      — crud.py
                     # Queries
       — models.py
                      # SQLAlchemy schemas
     - nosql/
                    # Firebase/MongoDB
        - firebase.js # Frontend Firebase config
        mongo_conn.py # Python-MongoDB interface
                   # Configuration files
- configs/
   - constants.py
                      # API keys, drone params
                      # Log settings
   logging.yaml
   - .env
                   # Environment variables
- tests/
                  # Testing
    frontend/
                    # Jest/Cypress tests

dashboard.test.js

     - map.test.js
   - backend/
                     # Pytest
     test_drone.py
     test_ai.py
 scripts/
                   # Utility scripts
 — deploy.sh
                     # Deployment automation
  — backup_db.sh
                        # Database backups
- docs/
                   # Documentation
   - ARCHITECTURE.md
                             # System design
  - API_REFERENCE.md
                             # Endpoint docs
 .gitignore
                   # Ignore files (e.g., .env, data/)
                      # Python dependencies
- requirements.txt
                      # Frontend dependencies
- package.json
- README.md
                        # Project overview
```