

Video AI Backend Project Structure

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video-ai-backend/
├── app/
│   ├── __init__.py
│   ├── main.py          # FastAPI app entry
│   └── core/
│       ├── __init__.py
│       ├── config.py    # Configuration
│       ├── database.py  # Database connection
│       └── security.py  # Auth utilities
│   └── api/
│       ├── __init__.py
│       ├── dependencies.py # FastAPI dependencies
│       └── v1/
│           ├── __init__.py
│           ├── api.py    # Main API router
│           └── endpoints/
│               ├── __init__.py
│               ├── videos.py # Video endpoints
│               ├── revisions.py # Revision endpoints
│               └── webhooks.py # Webhook endpoints
│   └── models/
│       ├── __init__.py
│       ├── video.py    # Video model
│       ├── scene.py    # Scene model
│       └── music.py    # Music model
│   └── schemas/
│       ├── __init__.py
│       ├── video.py    # Video schemas
│       ├── scene.py    # Scene schemas
│       └── base.py     # Base schemas
│   └── services/
│       ├── __init__.py
│       └── video_generation/
│           ├── __init__.py
│           ├── main_pipeline.py # Main video generation
│           └── revision_pipeline.py # Revision pipeline
│       └── ai_clients/
│           ├── __init__.py
│           ├── fal_client.py # FAL AI client
│           ├── elevenlabs_client.py # ElevenLabs client
│           ├── openai_client.py # OpenAI client
│           └── lyria_client.py # Lyria music client
│   └── storage/
```

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| | | |__ __init__.py
| | | |__ file_storage.py # File storage service
| | |__ base44_integration.py # Base44 callbacks
| |__ tasks/
| | |__ __init__.py
| | |__ celery_app.py # Celery configuration
| | |__ video_tasks.py # Video generation tasks
| | |__ revision_tasks.py # Revision tasks
| |__ utils/
| | |__ __init__.py
| | |__ errors.py # Custom exceptions
| | |__ logging.py # Logging configuration
|__ migrations/ # Alembic migrations
|__ tests/ # Test files
|__ docker-compose.yml
|__ Dockerfile
|__ .env.example
|__ requirements.txt
```