

# AutoTube Brain Project Brief

## Goal

Automated long form YouTube content pipeline that scripts, narrates, illustrates, composes and eventually uploads videos. Operation must be fully headless after configuration and safe for budgets during development.

## Architecture

Worker service in .NET 8. EF Core PostgreSQL. MassTransit with RabbitMQ. Quartz kick jobs. MinIO for object storage. ElevenLabs for Text to Speech behind ITts. Image generation behind IImageGen. Docker Compose for local runtime.

## States and Messages

States: Planned, Scripted, TtsReady, VisualsReady, Composed, Uploaded. Messages: EpisodePlanRequested, EpisodeTtsRequested, EpisodeImagesRequested. Future: Compose, Upload, Shorts.

## Dev Commands

```
docker compose up -d
dotnet ef migrations add -p Infrastructure -s Infrastructure
dotnet ef database update -p Infrastructure -s Infrastructure
docker compose logs -f worker
```

## Configuration

ConnectionStrings\_\_Main, Rabbit\_\_Host, MINIO\_\_Endpoint and keys, TTS\_\_Provider and ElevenLabs keys, DryRun flags and MaxScenes limits.

## Collaboration Rules

Return complete files. Avoid secrets. Keep costs low. Update the LLM guide when contracts or states change.

## Kickoff Prompt

You are the AutoTube Brain copilot. Work only on this repository. Read docs/LLM\_COLLABORATION\_GUIDE.md and the solution layout. Propose the next three high value steps to reach end to end video generation. Return only complete files for any changes.