Persist AI Assignment

-Krish Batra

Extensibility Points

1. Add multiple characters – The system can be expanded to include more than one character in the story, allowing scenes with interactions, emotions, and dialogue between characters.

2. Change visual style – Users can choose different art styles such as anime, cartoon, realistic, or cinematic before generating images to match the mood or theme.

3. Add background music – Background music or emotional soundtracks can be automatically generated and added to the final video for better storytelling.

4. Build a web or app interface – A simple web or mobile interface can be created so users can easily enter a theme and generate their reel without running any code.

5. Better error recovery – The system can include automatic retry, progress saving, and resume options so that if an error occurs, it continues from the last successful step instead of restarting.

Example Command(s) to Run End-to-End Automation

Below are ready-to-use commands for both PowerShell (Windows) and Bash (macOS/Linux) environments. These commands help run the full Auto Reel Generator pipeline or skip specific steps when needed.

PowerShell (Windows)

- Auto theme end-to-end:

```
python backend\main.py
```

- Force theme:

```
$env:THEME="finding hope in a storm"; python backend\main.py
```

- Clean and rerun fresh story:

```
Remove-Item .\story.json -ErrorAction SilentlyContinue; python backend\main.py
```

- Use faster Veo model:

```
$env:VIDEO_MODEL="veo-3.0-fast-generate-001"; python backend\main.py
```

- Explicitly set GCP credentials (optional):

```
$env:GOOGLE_APPLICATION_CREDENTIALS="$PWD\reel-automation-using-vertex-46ce43259bf6.json"; python backend\main.py
```

- Regenerate videos only (reuse story + characters):

```
$env:SKIP_STORY="true"; $env:SKIP_CHARACTERS="true"; python backend\main.py
```

Bash (macOS/Linux)

- Auto theme end-to-end:

```
python backend/main.py
```

- Force theme:

```
THEME="finding hope in a storm" python backend/main.py
```

- Clean and rerun fresh story:

```
rm -f story.json && python backend/main.py
```

- Use faster Veo model:

```
VIDEO_MODEL="veo-3.0-fast-generate-001" python backend/main.py
```

- Explicitly set GCP credentials (optional):

```
export GOOGLE_APPLICATION_CREDENTIALS="$PWD/reel-automation-using-vertex-46ce43259bf6.json"; python backend/main.py
```

- Regenerate videos only (reuse story + characters):

```
SKIP_STORY=true SKIP_CHARACTERS=true python backend/main.py
```