LatinAlive — Technical Workflow for Week 1

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1. Content & Script Creation (Latin Text)

Goal: Generate historically accurate, beginner-friendly Latin sentences tied to comic visuals.

Process:

1. **Prompt-based AI text generation** using *ChatGPT*:
   - Input: Scene description (e.g., "A Roman girl buys bread in the forum").
   - Output: Multiple Latin sentence options.
2. **Grammar verification** with *Classical Language Toolkit (CLTK)* and *spaCy Latin model*:
   - Tokenize sentences.
   - Identify parts of speech, case, tense, and agreement.
   - Correct errors before finalizing.
3. Store verified Latin sentences in a shared *Google Sheet* with English translations for quick reference.

Tools Used:

- ChatGPT
- CLTK
- spaCy + Latin model
- Stanza (cross-check)
- Google Sheets

2. Visual Content Creation (Comic Panels)

Goal: Produce historically accurate, comic-style illustrations that match the Latin script.

Process:

1. Use *DALL·E* with structured prompts including:
   - Time period (1st century Rome)
   - Clothing (tunic, toga)
   - Location (forum, market, villa)
   - Style (comic illustration, panel-friendly)
2. Download and organize generated panels in a folder structure:
   - `/Week1/Panel1.png`
   - `/Week1/Panel2.png`
3. Review for historical accuracy; re-prompt if necessary.

Tools Used:

- DALL·E

3. Morphosyntactic Analysis (Classroom Activity)

Goal: Provide real-time feedback on sentence structure.

Process:

1. Teacher or student inputs Latin text into an **NLP parser script** (Python).
2. Parser outputs:
   - POS tags (noun, verb, adjective)
   - Case, gender, number for nouns/adjectives
   - Person, number, tense, mood for verbs
3. Display analysis live on a projector or via a web dashboard.

Tools Used:

- Python
- spaCy Latin model
- Stanza
- Jupyter Notebook or Streamlit dashboard

4. Storage & Sharing

Goal: Centralized, accessible repository for all materials.

Process:

1. Store all weekly content in Google Drive with folders per week.
2. Maintain a **version-controlled backup** in GitHub (optional but highly professional).
3. Share links in weekly reports to allow the professor to review materials.

Tools Used:

- Google Drive
- GitHub (optional for scripts & templates)

5. Integration Roadmap

Later weeks will integrate:

- **Genially** / **Kahoot** — for gamified quizzes and competitions.
- **Text-to-Speech (TTS)** — for audio Latin pronunciation (Google TTS or Azure TTS).
- **Portfolio platform** — Google Sites, Notion, or GitHub Pages for final student work.