

Agentic Framework for Culturally Grounded Visual Story Generation

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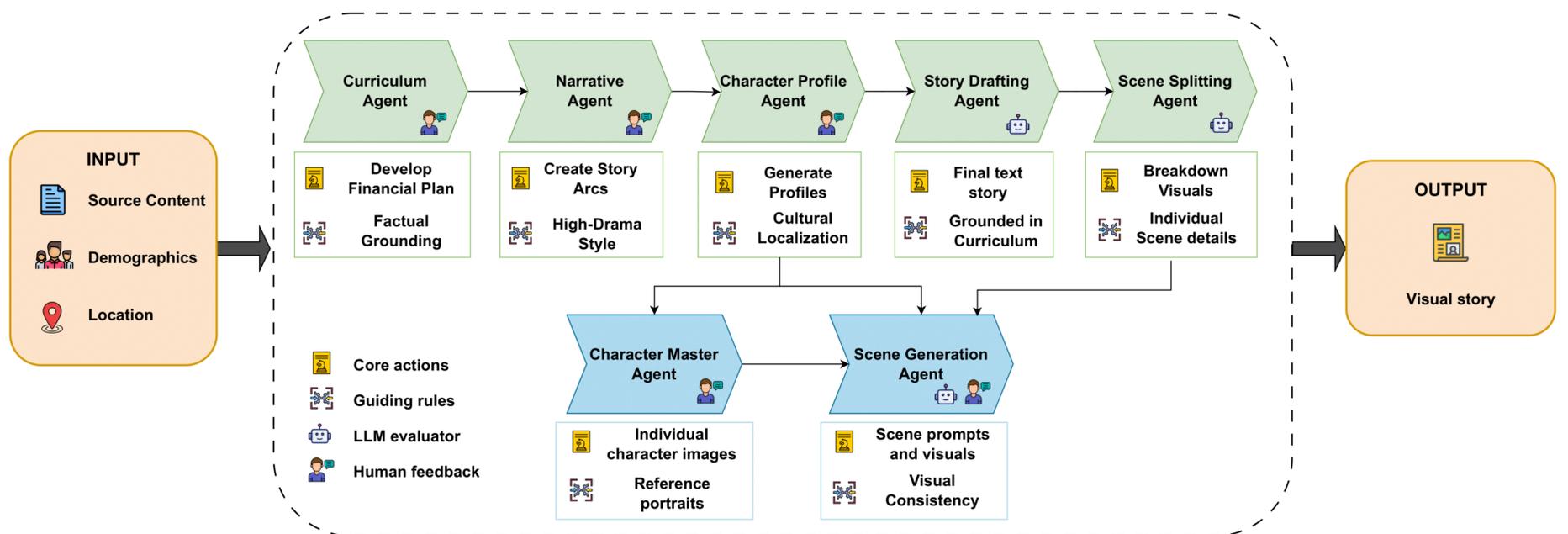
Motivation

- Learning is most effective when content **reflects learners' lived realities**
- Existing AI-generated stories **fail to capture local practices, relationships, and values** in Global South communities
- Manually creating culturally grounded visual stories is **time-intensive and skill-heavy**, limiting their **scalability** for educators and communities.

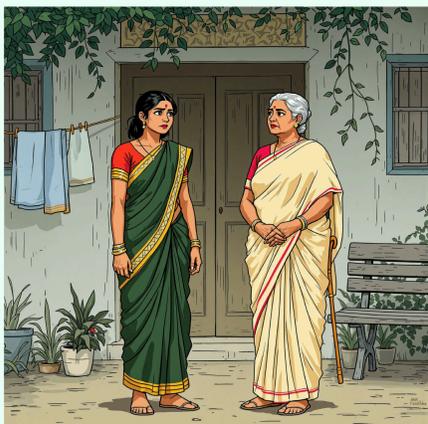
How can we enable communities and educators to co-create culturally authentic, visually consistent educational stories using AI without sacrificing control and accuracy?

Challenge	Prompt-only / Existing Systems	Our Pipeline
Cultural accuracy & grounding	✗ Generic depictions and Stereotyping	✓ Explicit cultural grounding + human review
Long-form narrative coherence	✗ Fragmented, scene-level generation	✓ Curriculum-guided, multi-agent story arcs
Character & visual consistency	✗ Characters drift across scenes	✓ Reference-based characters + visual evaluation
Educator & community control	✗ Minimal control after prompting	✓ Iterative, human in the loop
Suitability for Global South contexts	✗ One-size-fits-all content	✓ Location- and demographic-grounded stories

Our Pipeline



Results



Lakshmi Teacher shook her head. "Asha, borrowing from a moneylender should be your last resort. They charge high interest rates, and you can easily fall into a cycle of debt. Instead, try to manage your expenses and save a little each day. Even if it's just a few rupees, it adds up over time."



Asha smiled. "That's where budgeting comes in. Let me explain. A budget is like a map. It helps you track where your money is going and ensures that you're using it wisely."



"Okay, Kalyani, let's try withdrawing some money from the ATM. Insert your card here, enter your PIN, and choose the amount." Kalyani followed the instructions carefully. Within seconds, the machine dispensed Rs. 500. She held the cash in her hands, amazed. "It's like magic!"

