

New Workflow Requirements Analysis

Comparison: Current Flow vs. New Requirements

Date: December 2025

Document Purpose: Analyze differences between existing workflow and new requirements, identify implementation requirements, and assess complexities.

Executive Summary

You have requested a new workflow that shifts from **admin-mediated validation** to **user-driven validation** with an intermediate **synopsis generation step** before final output. The new workflow introduces **shot list generation** instead of script generation, and includes an **iteration loop** for synopsis refinement.

Key Changes:

- User validation replaces admin validation
 - Synopsis generation added as intermediate step
 - Shot list replaces script as final output
 - Iteration loop for synopsis refinement
 -  RAG usage becomes more explicit and critical
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Workflow Comparison

Current Flow (Existing Implementation)

1. User chats with chatbot
(Conversational story intake)



2. Chatbot extracts dossier:
- Characters, scenes, locations
- Story metadata (slot-based)
- RAG context (documentsmsgs)



3. Story completion detected
(AI detects completion phrases)



4. LLM generates script directly
(3-5 min video script format)



5. Script + transcript →
Validation Queue (Admin Review)



6. Admin reviews:
- Views full conversation
- Edits script
- Approves or rejects



7. Approved script →
Email delivery to client
(with CC to business emails)

New Requirements Flow (Client Request)

1. User uploads story points via chatbot interface



2. Chatbot processes input:
- Retrieves relevant data using RAG (knowledge base/documents)



3. LLM generates short synopsis based on story points + RAG



4. Synopsis validation:
- Present to user for review
- User approves/edits or rejects (loop back if needed)



(If approved)

5. LLM generates shot list:
- Breaks down synopsis into scenes, angles, durations, etc., for short film
- Optionally refine with RAG



6. Output shot list to user (text, PDF, or integrated tool)

Detailed Differences Analysis

1. Input Method

Aspect	Current Flow	New Requirements
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Aspect	Current Flow	New Requirements
Input Type	Conversational chat (Q&A format)	Story points upload (bulk input)
Interaction Style	Interactive, guided questions	Batch upload, then processing
Data Collection	Slot-based extraction during conversation	Pre-structured story points
User Experience	Step-by-step guidance	Upload → Process → Review
Impact:	Significant change in UX. Current system is conversational; new system expects structured input upfront.	

2. RAG Usage

Aspect	Current Flow	New Requirements
RAG Timing	Used during conversation for context	Explicitly used after input processing
RAG Purpose	Enhance conversation context, document analysis	Retrieve relevant knowledge base data
RAG Visibility	Implicit (background enhancement)	Explicit (primary processing step)
RAG Integration	Integrated into chat responses	Separate processing step
Impact:	RAG becomes more critical and visible. May need enhanced RAG capabilities for knowledge base retrieval.	

3. Synopsis Generation

Aspect	Current Flow	New Requirements
Synopsis Step	✗ Not implemented (planned but not done)	<input checked="" type="checkbox"/> Required as intermediate step
Timing	Would be after story completion	After story points processing
Purpose	Summary for admin review	User validation before shot list
Output Format	N/A	Short synopsis (1-2 pages?)
Impact:	New feature that needs to be built. Currently synopsis generation is 90% planned but not implemented.	

4. Validation Workflow

Aspect	Current Flow	New Requirements
Validator	Admin (internal team)	User (client)
Validation Target	Script	Synopsis
Validation Location	Admin dashboard (/admin)	User interface (chatbot)
Iteration Loop	Single review → approve/reject	Loop back to step 3 if rejected
Feedback Mechanism	Admin notes in validation queue	User edits/rejects with feedback

Impact: Major architectural change. Shifts from admin-controlled to user-controlled validation.

5. Output Type

Aspect	Current Flow	New Requirements
Final Output	Video script (3-5 min format)	Shot list (scenes, angles, durations)
Output Format	Text script	Structured shot list (text/PDF/tool)
Output Recipient	Client via email	User directly in interface
Output Timing	After admin approval	After user synopsis approval

Impact: Different output format and delivery method. Shot list is more structured than script.

6. Iteration & Feedback Loop

Aspect	Current Flow	New Requirements
Iteration	Single pass (admin can edit)	Multiple passes (user can loop)
Loop Trigger	Admin rejection	User rejection of synopsis
Loop Destination	Back to admin for re-review	Back to synopsis generation (step 3)
Feedback Integration	Admin notes	User edits/feedback in prompt

Impact: Requires state management for iteration cycles and feedback incorporation.

Implementation Requirements

1. Story Points Upload Interface

Current State: Chat interface exists, but designed for conversational input

Required Changes:

- Add bulk upload capability for story points

- Support text file upload or structured input form
- Parse and structure uploaded story points

Complexity: Medium

- Need to handle file uploads (already supported for images/documents)
 - Need to parse and structure story points
 - May need validation for incomplete/invalid story points
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2. Enhanced RAG Processing

Current State:  RAG exists but used implicitly during conversation

Required Changes:

- Make RAG processing explicit and visible
- Enhance RAG to retrieve from knowledge base (not just documents)
- Display RAG context to user (optional, for transparency)

Complexity: Medium-High

- RAG infrastructure exists but may need enhancement
 - Knowledge base integration may be new
 - Need to ensure RAG context is relevant and useful
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3. Synopsis Generation

Current State:  Planned but not implemented (90% complete per proposal)

Required Changes:

- Implement synopsis generation LLM call
- Generate synopsis from story points + RAG context
- Format synopsis appropriately (1-2 pages?)

Complexity: Low-Medium

- LLM infrastructure exists
 - Need to create synopsis generation prompt
 - Need to store synopsis in database
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4. User Validation Interface

Current State:  Admin validation exists, user validation does not

Required Changes:

- Create user-facing validation UI in chatbot
- Display synopsis to user
- Allow user to approve/edit/reject
- Capture user feedback for iteration

Complexity: High

- New UI component needed
 - State management for validation status
 - Integration with chatbot interface
 - User feedback capture and storage
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5. Iteration Loop Logic

Current State: ✗ No iteration loop exists

Required Changes:

- Detect user rejection
- Loop back to synopsis generation
- Incorporate user feedback into LLM prompt
- Track iteration count (prevent infinite loops)

Complexity: Medium-High

- State machine for workflow stages
 - Feedback incorporation logic
 - Loop detection and limits
 - User experience for iteration
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6. Shot List Generation

Current State: ✗ Script generation exists, shot list does not

Required Changes:

- Create shot list generation LLM call
- Generate structured shot list (scenes, angles, durations)
- Format shot list appropriately
- Support multiple output formats (text/PDF/tool)

Complexity: Medium

- Similar to script generation (can reuse patterns)
 - Different output structure (shot list vs. script)
 - May need structured output format (JSON?)
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7. Output Delivery

Current State: ✗ Email delivery exists for scripts

Required Changes:

- Deliver shot list directly to user interface
- Support multiple formats (text, PDF, tool integration)
- Remove email delivery (or make optional)

Complexity: Low-Medium

- UI display is straightforward
 - PDF generation may need new library
 - Tool integration depends on target tools
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Frontend Changes Required

New Components

1. Story Points Upload Component

- File upload or text input
- Preview uploaded content
- Validation feedback

2. Synopsis Display Component

- Show generated synopsis
- Edit interface
- Approve/Reject buttons
- Feedback input

3. Shot List Display Component

- Structured shot list view
- Export options (PDF, text)
- Integration with film tools (future)

Modified Components

1. ChatPanel

- Support story points upload mode
- Display synopsis validation UI
- Show iteration status

2. SessionsSidebar

- Show synopsis status
 - Show shot list status
 - Filter by workflow stage
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Complexity Assessment

Low Complexity

- Shot list generation (similar to script generation)
- Output delivery (UI display)
- Database schema additions (straightforward fields)

Medium Complexity

- Story points upload and parsing
- Synopsis generation (LLM call similar to script)
- Enhanced RAG processing
- Iteration loop logic

High Complexity

- User validation interface (new UX paradigm)
- State management for workflow stages
- Feedback incorporation into LLM prompts
- Workflow state machine

Timeline Estimate

Phase 1: Core Infrastructure (3-4 days)

- Story points upload interface
- Enhanced RAG processing
- Synopsis generation
- Database schema updates

Phase 2: User Validation (1-2 days)

- User validation UI
- Feedback capture
- State management

Phase 3: Iteration Loop (1-2 days)

- Loop logic implementation
- Feedback incorporation
- Iteration limits and handling

Phase 4: Shot List Generation (2-3 days)

- Shot list LLM generation
- Structured output format
- Display and export

Phase 5: Testing & Refinement (4-5 days)

- End-to-end testing
- UX refinement
- Error handling
- Performance optimization

Total Estimate: 10-21 days (~1.5-3 weeks)

Questions for Client

1. Workflow Compatibility

- Should we maintain the current conversational flow as an option?
- Or completely replace it with story points upload?

2. Admin Review

- Should admin review be removed entirely?
- Or kept as optional quality check after user validation?

3. Script vs. Shot List

- Should we generate both script and shot list?
- Or replace script entirely with shot list?

4. Synopsis Format

- What length/format for synopsis? (1-2 pages? Bullet points?)
- Should synopsis be editable by user or regenerated?

5. Iteration Limits

- Maximum number of iterations allowed?
- What happens after max iterations reached?

6. Output Format

- Preferred shot list format? (JSON, text, PDF, tool-specific?)
- Which film tools should we integrate with?

7. RAG Knowledge Base

- What knowledge base should RAG query?
 - Existing documents or new knowledge base?
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Recommendations

1. Phased Implementation

- Start with story points upload + synopsis generation
- Add user validation in phase 2
- Add shot list generation in phase 3
- Refine iteration loop in phase 4

2. Maintain Backward Compatibility

- Keep current conversational flow as option
- Allow users to choose workflow style

- Gradual migration path

3. Hybrid Approach

- Use admin review as fallback for rejected synopses
- Allow admin to intervene if user iterations exceed limit
- Maintain quality control layer

4. Enhanced RAG

- Invest in RAG quality improvements
- Build knowledge base if needed
- Monitor RAG performance metrics

5. User Education

- Clear onboarding for new workflow
 - Help documentation
 - Tooltips and guidance throughout
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Conclusion

The new workflow requirements represent a **significant shift** from the current implementation:

- **User-driven** instead of admin-driven
- **Two-stage generation** (synopsis → shot list) instead of single script
- **Iteration loop** for refinement
- **Different output format** (shot list vs. script)

Key Challenges:

1. User validation UX design
2. Iteration loop state management
3. RAG quality and relevance
4. Workflow state persistence

Recommendation: Proceed with phased implementation, starting with core infrastructure and gradually adding user validation and iteration features.
