Sprint 4 Plan

Product Name: **ChatCut**
Sprint Completion Date: **November 30**
Revision Number: **1**
Revision Date: **November 19**

Goal

The goal of Sprint 4 is to complete core editing features, improve AI-assisted video workflows, finish UI updates, and integrate backend object tracking. This sprint also includes strengthening audio effect reliability and enhancing video-to-video generation quality.

Task Listing (Organized by User Story)

User Story 1 (US 4.1):

"As a user hoping to add edits to my video, I want to use an undo button so I can revert unwanted operations or mistakes."

Tasks:

Test undo button behavior across all edit types

Fix edge cases found during testing

Total for User Story 4.1: 15 hours

User Story 2 (US 4.2):

"As a user, I want audio effects to work reliably so I can enhance audio tracks."

Tasks:

Test audio effects end-to-end in Premiere

Document failing scenarios & bugs

Implement fixes for core audio effect issues

Total for User Story 4.2 : 10 hours

User Story 3 (US 4.3):

"As a user, I want to apply multiple prompts so I can layer edits easily."

Tasks:

Test multiple prompt chains with effects

Handle prompt queueing conflicts

Update backend logic to support multi-effect sequencing

Total for User Story 4.3: 10 hours

User Story 4 (US 4.4):

"As a user, I want an effects history so I can see and revisit changes."

Tasks:

Implement effects history data model

Connect effects history UI components

Integrate history with undo/redo

Total for User Story 4.4: 18 hours

User Story 5 (US 4.5):

"As a user, I want the updated UI so that editing actions feel intuitive and fast."

Tasks:

Complete remaining UI changes (buttons, panels, layout)

Validate UI flow with plugin interaction model

Total for User Story 4.5: 10 hours

User Story 6 (US 4.6):

"As a user, I want object tracking connected to the backend so tracked effects can be applied automatically."

Tasks:

Hook up YOLO model output to backend endpoints

Sync tracking data with Premiere plugin

Test full pipeline

Total for User Story 4.6: 6 hours

User Story 7 (US 4.7):

"As a user, I want improved video-to-video generation so AI results are more consistent."

Tasks:

Improve Gemini Veo3 prompt chaining

Implement model fallback or retries

Test generation with multiple sample clips

Total for User Story 4.7: 5 hours

User Story 8:

"As an editor, I want edited clips flagged in the timeline so I can see which clips have been modified."

Tasks:

Add "edited" metadata flag in timeline event

Sync state between UI and backend

Test flag appearance and persistence

Total for User Story 4.8: 6 hours

Stretch Goal – User Story 9 (4.9):

"As a user, I want multiple chat sessions so I can switch between editing conversations."

Tasks:

Create chat session data model

Add UI to swap chat histories

Connect chat session switching to agent backend

Total for User Story 4.9: 20 hours

Sprint 4 Total Estimated Effort: 100 hours (80 without stretch)

- # Team Roles

Team Member	Roles for Sprint 3

Dessy Bonev	Product Owner / UI
Neel Billimoria	Backend Developer
Hari Raghavan	Full stack developer
Akhil Datla	AI developer
Levi Laden	Full stack developer
Avi Das	Full stack developer

Initial Task Assignments

Initial Task Assignment

Team Member	User Story & Initial Task
Dessy Bonev	US 4.5 – Complete UI changes
Neel Billimoria	US 4.6 – Connect YOLO tracking to backend via FastAPI
Hari Raghavan	US 4.2 – Test audio effects
Akhil Datla	US 4.6 – Connect YOLO tracking to backend
Levi Laden	US 4.7 – Improve video-to-video generation
Avi Das	US 4.1 – Test undo button

ChatCut Scrum Board   ···

🔍 Search board   👤 DB AD HR LL NB   ⇄ Filter   **Complete sprint**

TO DO 4	IN PROGRESS 3	IN REVIEW 2	DONE 2 ✓	+

TO DO 4

test "undo button"
☑ SCRUM-14   = AD

can we reflect object tracking changes in effect controls?   ···
☑ SCRUM-18   = 👤

add UI history on the side bar of the chat box
☑ SCRUM-21   = DB

Add effect parameter editing
☑ SCRUM-24   5   = LL

+ Create

IN PROGRESS 3

connect collab to backend and implement object tracking overlay
☑ SCRUM-19   = NB

add a visible cursor in the background
☑ SCRUM-22   = DB

As a user I want to be able to undo changes made by the copilot
☑ SCRUM-15   = AD

IN REVIEW 2

add audio effect functionality
☑ SCRUM-17   = HR

implement shortform AI video generation
☑ SCRUM-16   13   = LL

DONE 2 ✓

Add prompting for multiple effects
☑ S̶C̶R̶U̶M̶-̶2̶3̶   ✓ 5 = LL

add copy paste in the chat box
☑ S̶C̶R̶U̶M̶-̶2̶0̶   ✓ = DB