

**POST PRODUCTION WORKFLOW AND EDITING STRATEGIES FOR THE
ANIMATED SHORT FILM “DHOWA”**

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Multimedia and Creative Technology

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DHAKA, BANGLADESH

APPROVAL

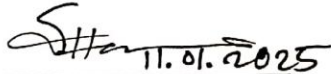
This Project titled “Post Production Workflow and Editing Strategies for The Animated Short Film Dhowa”, submitted by MD Mohiuddin (ID: 203-40-001) to the Department of Multimedia and Creative Technology, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 11.01.2025

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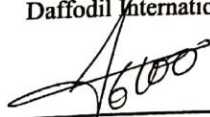
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DECLARATION


I hereby declare that this project has been done by us under the supervision of **Kazi Jahid Hasan, Assistant Professor, Department of MCT Daffodil International University**. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

This is an elaborative report that assesses the post-production workflow and editing methods adopted in the making of an animated short film, Dhowa. The essence of this project was to come up with a simple yet very visually interesting narrative, with a pinch of social awareness about the hazardous repercussions of careless have-a-go-human behaviors like the unsafe use of firecrackers and lanterns. Post-production dealt with making the story more interesting by using more advanced editing techniques and motion graphics, color grading, and sound design. The editing was done only on Adobe Premiere Pro and Aftereffects. The dynamic storytelling uses scene transitions, pacing, and visual continuity to add to the film's desired aesthetic. Like how bright and sunny shades are portrayed in the animated movie Luca, this was created through detail-oriented control over the color grading workflow. The specific process balances warm tones and subtle highlights to create an optimistic tone for the animation while remaining visually clear and consistent for all the sequences. Advanced LUTs and exposure adjustments were used to achieve a somewhat consistent cinematic look all through the animation. The core of the sound design was the employment of a professional voice-over artist to narrate the story since characters would not speak the dialogues in this animation. The sounds were captured from sources such as Envato Elements, Epidemic Sound, and Artlist from stock sound effects and music tracks to fill in the narrative layer and emotional attachment with the audience. For the sound mixing, the priority was given to clarity around the balance so that effects, music, and voiceover would not wash over the image. Motion graphics and VFX were instrumental in bringing Dhowa's narration alive. Formulating the title animations and the end credits was through Adobe After Effects to give a professional touch while synchronizing it with the film's visual scheme. Certain stock fire effects were integrated into the last sequence as some hand wash scenes incorporated water effects for added emotional depth and realism. These effects were chosen to not only beautify but highlight the symbolism of these moments in the story. Monday managing the complete production

process; task tracking, timeline organization, and team collaboration. With this platform, one can easily coordinate among members and see to it that all deadlines are met and tasks clearly defined throughout post-production. This report also talks about the post-production problems, including handling heavy image sequences, having a pretty consistent color grading between the shots, and the sound design balance between different layers. These challenges went through continuous testing and refining during the editing process. This proved the importance of planning, collaboration tools, and also to keep the direction unified for the creativity in a successful process of post-production. The experience once again proves how pre-planned workflows, effective communication, and the best software tools can put together a fine-tuned final product. Future possibilities include DaVinci Resolve for high-end grading and possibly broadening Dhowa as part of larger social awareness campaigns for a greater scope in impact and reach.

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CHAPTER 1

Introduction

Post-production is one of the most important steps in any animated short film, as it helps where all visual and sound components are fine-tuned and combined to deliver a thorough piece. I handled post-production workflow and editing strategies on our animated short film Dhowa. In this case it was a weaving of picture and sound, image and movement to convey the story, emotion and impact of the film. When editing this teaser and putting the whole film together, I wanted to emphasize smooth transitions, keeping the flowing pace of imagery that matched the rhythm of its respective sound in order to create an aesthetically stimulating experience to compliment both visual and auditory senses considering this film is much about creating social consciousness and empathy as it is about animals. I was also responsible for designing sound and aligning it with visuals so that the audience feels like they are inside of the space. Color grading was another aspect I dealt with to keep the film vertical as a tone and mood while showcasing the unique artistic look developed during pre-production. Used motion graphics to create more depth and creativity in the visuals, so the story essentially comes alive differently. Each choice taken in post production with Dhowa was part of a greater learning experience, where we consistently aimed to present a finished product that mirrors the desire for clarity within the content of our personal vision and drawing on central ideas from story.

1.1 Motivation

The way I approached Dhowa projects had an underlying factor which was the treatment of the post-production factors and how it helps to improve a narrative. I have always loved editing, for this is the only point in time when all the fun parts of imagination are strung together– visuals, sounds, tempo, and cuts before a story is made. Dhowa appeared to me as a relevant project, where I could bring out all the knowledge gathered while improving on things like applying Adobe Premiere Pro and After Effects. This reassured me because I can actively take part in such an integral part of the process, and I knew I can help realize our team's aim. The plot of Dhowa also proved to be a great drive as well. It's a social and

environmental concern-driven project that interests me a lot. I have always thought that animation is a great art of narration, and so it was my duty to make sure that the idea behind the film is very well articulated. I was involved in this because most of the time editing is considered a post-production process and this is where the story begins to acquire the desired mood and depth. I wanted to be able to ensure that every cut, every sound inclusion, and every transition contributed to enhancing the potency of the narrative and impressed the viewers for a very long time. What also motivated me was the chance to step outside of my comfort zone and push myself as a multimedia student. While working on such a detailed animated movie was my first experience of taking this entire post-production task on board, I was aware that it would require me to step outside of my comfort zone. Each component, from designing the sound to grading the colors to creating the motion graphics, came with different challenges, but that was the beauty of it. I was willing to learn, try things out, and be resourceful, which was very optimistic of me as I understood that every issue I tackled raised my comprehension level

1.2 Objectives

The purpose of my involvement in the project Dhowa was to take control of the post-production process and ensure that it enhanced the narrative of our animation short film. I was responsible for coming up with the best possible editing pipeline that would augment the storytelling, both visually and emotionally. After the visual production was completed, I used Adobe Premiere Pro and After Effects to bring together the animation, sound, motion, and other elements into one complete piece. One of my major objectives was to ensure that sound design was used properly, to support the actuary images, and also to provide an appropriate feeling for each scene. Whether through scoring, sound design, silences, or something else, I always wanted the sound to be relevant to what the story is trying to convey and the feelings it aims to invoke. In addition, I aimed to achieve desired and tailored aesthetics with color grading in Dhowa. By using appropriate tones and lights, I intended to create an atmosphere that supported the main theme of the story. Another very important aspect was communication within the team, which included working on the

timing of scenes and cuts – ensuring the rhythm of the film was dynamic and interesting to the audience. Each shot should relate to the other, and cuts and connections must be timed according to the demands of the narrative. Lastly, I did not want the audience to be pulled out of the story at any given time, therefore, the simultaneous frame cut and visual rhythm were preserved throughout. In the end, what I aspired was to use the tools of the computer to enhance the social and ecological impact of the story. I was determined that Dhowa would not only be as per our artistic expectations but would also transcend the audience, creating an urge of awareness and contemplation with its sights and sounds. This project was not only about the instant worth of a film, but evolution, development, and the ability to do something valuable.

1.3 Expected Outcomes

In Dhowa, one of my primary expectations from my role was to produce an edited and coherent animated short film. During post-production, one of my objectives was to integrate all aspects of the film: including but not limited to animation, sound, coloring, and motion graphics, so that they would complement the story, as well as the emotions portrayed in the film. One key outcome was to ensure that the stride of the whole film was consistent and that all the pacing as well as the transitions were in relation to the story. I edited the cuts of certain scenes and controlled the duration of certain cuts so that the audience was not only entertained but also had a connection with the plot. Also, I expected to aid the film by providing a uniform look throughout the movie through the use of color grading, which I believe would also assist in the film's mood and atmosphere. Another expected outcome came down to the sound design. Specifically, I wanted to augment the images with appropriate sound effects, music, and voice, while still adhering to the aesthetic of the piece. I wanted the sound to fit, yes, but even more, I wanted the sound to be a thematic expansion of the piece, so that the audience is enveloped in it. In terms of personal growth, I thought to improve my abilities related to post-production in particular using Premiere Pro and After Effects of this project. This project encompassed advanced editing, color correction exercises, as well as audio and motion graphics work and refined

my appreciation of the role of editing in narration. In the end, I sincerely wished that Dhowa would serve its purpose to educate people regarding social justice and environmental issues. The film dealt with issues of compassion and responsibility towards nature, and I was hoping it would reach out to the spectators leading to healthy exchanges. Overall, I expected that my work would not only contribute to the success of the film but also help me grow as a multimedia artist, preparing me for future projects in post-production and animation.

1.4 Project Management and Finance

Since the Dhowa project did not have an external budget, we handled all the functions of the working group by making use of free software and external resources. In the second version of the film, I was responsible for the overall post-production workflow and worked with my teammates to meet the deadlines and organize the assets in an efficient manner. Monday tools were employed during the course of the project to ensure that everything remained on schedule. On the scheme of the Monday student package, we get access to paid features for free which helped us to maintain the project seamlessly. There were no paid resources employed, all software used, including Adobe Premiere Pro and After Effects was through student versions. I spent a little money on a course for Texturing and Look Development, but apart from that, there were no major expenditures on the project. This has enabled us to use our minds and learn without worrying about finances.

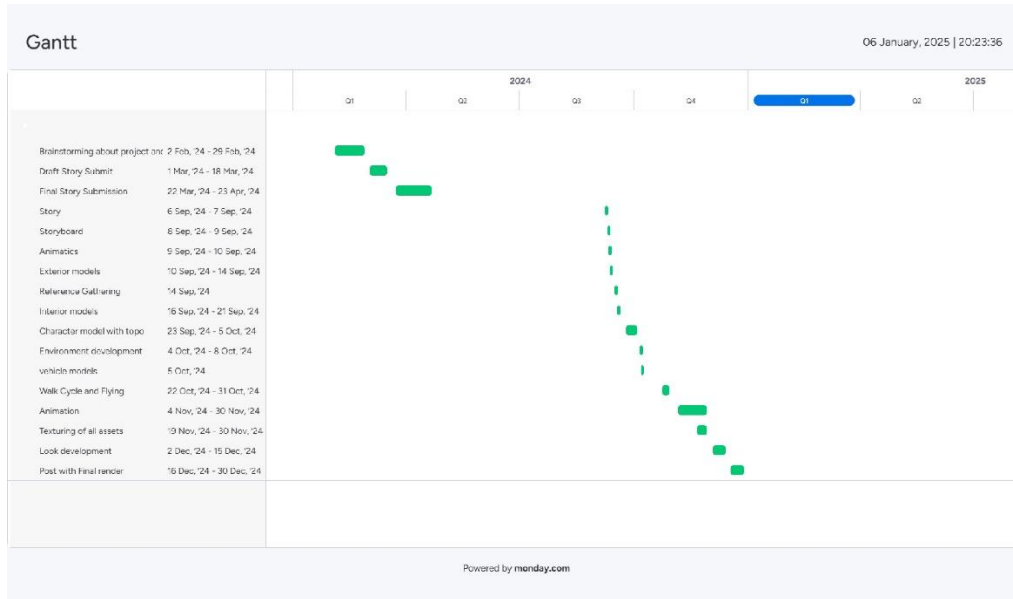


Figure 1.1: Gant Chart of full production [21]

1.5 Report Layout

This report aims to give an in-depth presentation of the activities of the Dhowa project, specifically the stages of post-production. In Chapter 1, the reader is introduced to the project- its motivation, objectives, outcome expectations, project management, and report structure. Chapter 2 provides some background information such as definitions of key terms, previous works, and a comparison of methods and problems in animation as well as post-production. Chapter 3 discusses the project scope, specifically business process modeling, requirement analysis, and design parameters. Chapter 4 addresses the principles of visual art in the project, the processes of which include concept, visual style, color, and how art direction enhances storytelling. Chapter 5 includes the development of 3D props where the processes of modeling and texturing of the 3D props are discussed and also focuses on the assessment of the final 3D props obtained. In Chapter 6, we will also discuss the implications of the project with consideration of the society, its environmental impact, the sustainability of the project, and the ethical issues involved. The last chapter of the report which is chapter 7 gives a concluding remark on the project results and suggests the

possible development of the project in the future. The report is organized in such a way that it defines the process of the project, the results obtained and the experiences gained.

CHAPTER 2

Background

Within this section, we outline important concepts that pertain to the Dhowa undertaking in order to eliminate any ambiguity that might arise concerning the processes involved. The term post-production refers to that stage of animation production that takes place following the actual animation when activities like editing and sound as well as visual effects are carried out. 3d model creation is the process of designing three-dimensional digital objects or characters, which is important for the construction of the background and props. Texturing is the process of applying different surface properties or details to these models to make them more realistic. Color correction is the process of changing the colors in the imagery to convey a particular mood or feel of the visual. Motion graphics appeared in visual effects and transitions in the film, creating a sense of movement. Sound design is the process of creating and editing the sounds that accompany the narrative. Lastly, the project's editing and visual effects composition is done using Premiere Pro and After Effects. Understanding the following terms is essential in appreciating the methods and hardware used in making Dhowa.

2.1 Related Works

To develop the visual and technical aspects of Dhowa, I looked at various animated short films and drawing styles from the industry. One of the major references was Pixar's Luca, which featured an unusual combination of bright color patterns, which were complemented by the slow character progression and development, all set in a sea context. Moreover, the use of environmental storytelling in 'Coco' was very useful for it displayed who or what the main character of the story is and how the surrounding helps in the plot.



Figure 2.1: Related works (Pixar Animation's Luca and Coco)

Furthermore, The Wild Robot helped in understanding how to present characters that are plausible yet evoke emotions, especially in nature, which was useful for the character design and animation for Dhowa. I also looked for behind-the-scenes as well as how-top's from professionals in the industry, especially in the area of 3d and post-editing. These helped in master the basics of programs that I employed like Premiere and After Effects and most importantly story development using animations. These factors in addition to our concepts contributed to the overall artistic vision and how we implemented the art project.

2.2 Comparative Analysis

More so when one looks at the short film Dhowa and the other animated shorts one would note that though we borrowed some aspects from the industry, our work is more of our learning process and what was available. There are other films like 'Luca' and 'Coco' which completely raised the bar of innovation with breathtaking animated techniques, character design and development, and environmental storytelling. These films employ detailed 3D models and complex texturing systems which we attempted to replicate on a

low scale as we were more concerned with learning than making a well-designed big-budget film. Unlike these mainstream projects, Dhowa was a low-budget team-based project using free software and very few resources.



Figure 2.2: Comparative analysis of Luca and Dhowa

We approached this project with the objective of learning postproduction and animation from the ground up. For instance, in animated features such as *The Wild Robot*, the emotions of characters are complex and reach a high degree of expressiveness, and it is



Figure 2.3: Comparative analysis of lighting between The Wild Robot and Dhowa possible to devote to this technique large resources and attention; we, on the other hand, used more modest methods of creating emotion appropriate for our level of skill. Also, while in films like Coco, the motion graphic elements and sound design work towards improving the narrative, we were more traditional in our approach focusing on the use of basic After Effects and Premiere Pro, playing around with effects and transitions. At the end of the day, this project serves as evidence of our progression as media artists knowing fully well that the main goal was not to race with the titans of the industry. We also learned how to appreciate animation by enlacing ourselves with hands-on practices that took the use of time and resources. Because of the practice, by this stage in the project, we visual analysis of the work.

2.3 Scope of the Problem

The efforts of Dhowa mainly revolve around the concept of an animated social film along with the structural progression of 3D models, post-production processes, and editing strategies. Apart from being able to finish the animation, the challenge was also to make sure that everything else related to it - the creation of 3D props, texturing, and post-production editing – was done to the best of our skills and the available resources. Further defining this specific project was the aim to use free software and cheap budgets. In practice, this meant a high level of creative aspirations seemed impossible due to the use of educational versions of software packages. In addition, being over budget required us to break the project down into phases and concentrate not on the realistic detail achievable in most commercial films, but on the elements of animation and post-production which could be done, among other things, within deadlines. Also, it included working out the plot and the organization of the artistic 3D animation, sound, color correction, motion graphics, and them all together into one completed piece of work. Apart from the intended purpose of the film, which was to sensitize the audience on the prevalence of certain social issues, this also acted as a practical course in which we were able to practice all the aspects of post-production from beginning to end.

CHAPTER 3

Requirement Specification

Post-production for the animated short *Dhowa* required a well-planned combination of hardware, software, and organization strategy, keeping it smooth during editing and finishing of the film. Post-production is significant to enhance the part of storytelling and involves video editing, motion graphics, sound design, color correction, and the visual effects required for the animated film. All demanded different special tools and techniques focused on the look and feel of the original art direction as well as films' narrative goals. A complex specification was necessary in order to cater to balanced performance and quality by handling complicated workflows. Being a student project, the focus was to maximize efficiency while adequating the work to meet professional standards. The tools and strategies chosen fell under the influence of the team's skill set as well as the learning objectives of this project.

3.1 Software and Hardware Requirements

To manage the many sophisticated demands that accompany post-production, I must trust my effective toolset comprising high-end software and a good hardware setup. For the overall editing and visual effects process, I heavily rely on Adobe Premiere Pro for non-linear video editing and a timeline for refining storytelling. Adobe After Effects is used widely for motion graphics, compositing, and visual effects and DaVinci Resolve has been used to color-grade projects for a more cinematic visual effect sometimes. With these software tools, I can accomplish every task related to post-production: editing, visual enhancements, color grading, and final export. They support many formats and resolutions, offering a high level of flexibility and compatibility for every distribution channel out there. This powerful workstation is driven by a Ryzen 5 3600 6-Core CPU such that it becomes very suitable even when handling the rigorous high demands of animation rendering and effects studies. It has 32GB DDR4 which means for smooth 4K footage playback and heavy memory tasks, such as complex After Effects compositions. Besides that, I have the accessories: a 12GB Nvidia 3060 graphics card which boosts GPU

performance to really take things up a few notches in terms of high-speed playback, rendering of effects, and previews of the timeline. On the system drive, a 500GB NVMe SSD is deployed, which provides great speed while accessing project files and helps in the swiftness of software applications. A 128GB cache drive is reserved for temporary project files, as well as rendering caches used to boost efficiency during heavy editing sessions. A storage drive of 1TB is also included, which is used ed to store raw footage, animation sequences, and backups of the different projects.

Required Hardware	Required Software
CPU: Ryzen 5 3600 (6-Core)	Adobe Premiere Pro (for video editing and color grading)
RAM: 32GB DDR4	Adobe After Effects (for motion graphics and VFX)
Graphics Card: 12GB Nvidia 3060	DaVinci Resolve (for advanced color grading)
Storage: 500GB NVMe system drive, 128GB cache drive, 1TB storage drive	Pureref (for reference collecting)
Monitor: 22" or larger, with good color accuracy	
Input Device: Wacom Tablet	
Operating System: Windows 10/11	

Table 3.1: Required hardware and Software

CHAPTER 4

Post-Production Tools and Workflow Setup

The final stage of post-production is highly essential to an animated short film and involves the last step in editing, refining, and assuring the quality of visuals and audio. The at Dhowa post-production harnesses these industry-standard tools and techniques in focus to yield a polished, handcrafted outcome. In fact, the entire post-production-from the first step of editing to the last output-has been designed to build up an efficient workflow that ensures each aspect of the film becomes seamlessly integrated. Post-production of Dhowa begins with bringing the rendered image sequences and other materials into the editing software. From there, the process goes through the different stages: editing, motion graphics, sound design, color grading, and final output. Adobe Premiere Pro and After Effects act as the primary tools in the workflow that help in video editing, visual effects, and compositing. Once the rough edit of the film is compiled, color grading is done in order to change the mood and tone of the film. Along with visual enhancements, sound design and audio are worked out so that the entire experience is cohesive and engaging. The workflow is designed such that it allows room for flexibility and creativity, but with efficiency to ensure that the final film is both technically and artistically strong.

4.1 Tools Selection and Justification

The choice of tools in post-production is driven by both the technical needs of the film and the artistic goals. For these reasons, Adobe Premiere Pro has been chosen for its powerful editing features; it allows for intricate footage refinement, timeline organization, and works well with other Adobe applications. For motion graphics and visual effects,

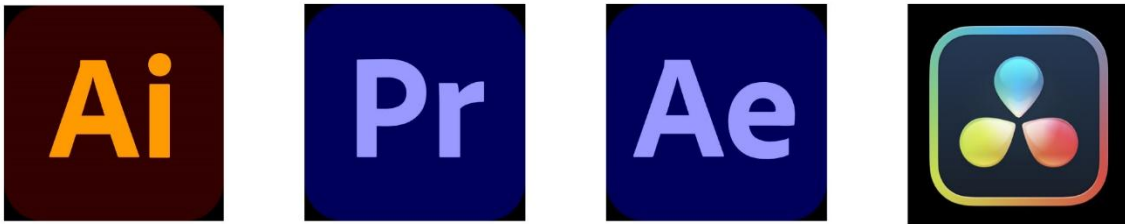


Figure 4.1: Technical software for post production workflow

Adobe After Effects is chosen; the tools are robust and needed in creating complex effects and transitions in the film. DaVinci Resolve and Adobe Premiere Pro are used for color grading, to enhance the visual appearance and emotional atmosphere of the film, following the bright and sunny color scheme. In terms of audio design, it is done in Adobe Audition or any other specialized audio software to enhance the soundtrack and sound effects of the film. This suite of tools ensures a professional level of post-production quality and the ability to handle various types of tasks, from editing and VFX to sound design and color grading.

4.2 Workflow Design and Setup

The formulation of the post-production workflow for Dhowa ensures perfect collaborative production and follows the same consistency through all stages. After the rendered image sequence is brought into

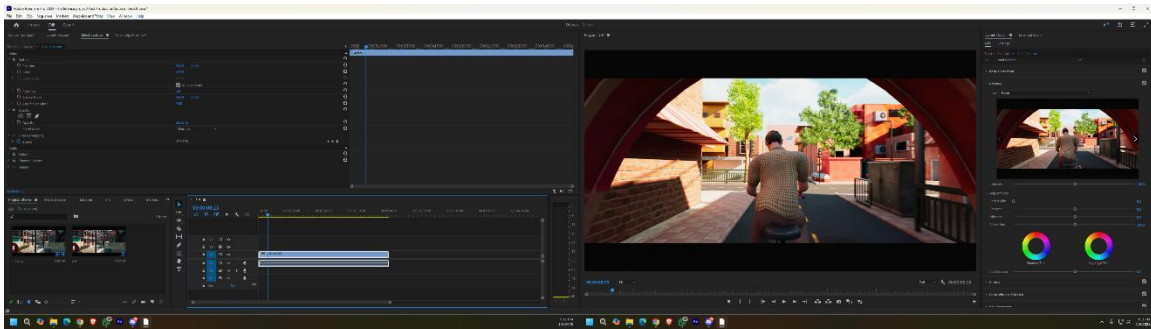


Figure 4.2: Timeline of Premier Pro

Adobe Premiere Pro, the rough cut of the film is assembled finally, after the initial sequence is placed in the order intended to be shown. After the first edit is finished, any visual effects or motion graphic elements are created in

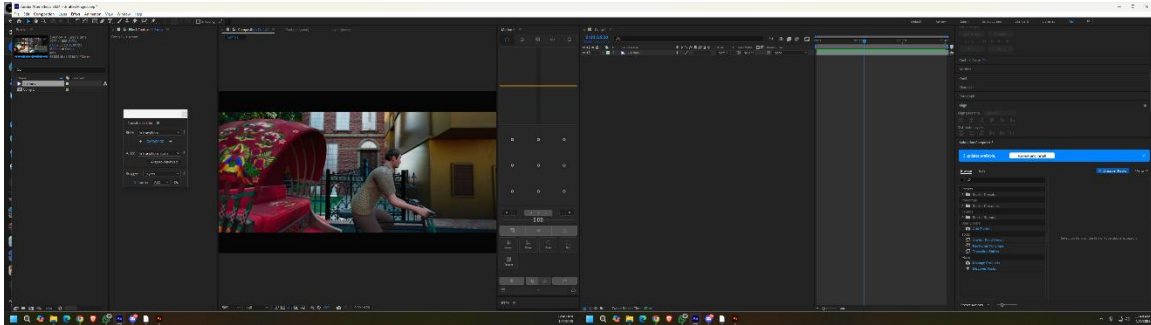


Figure 4.3: Timeline of Adobe After Effects

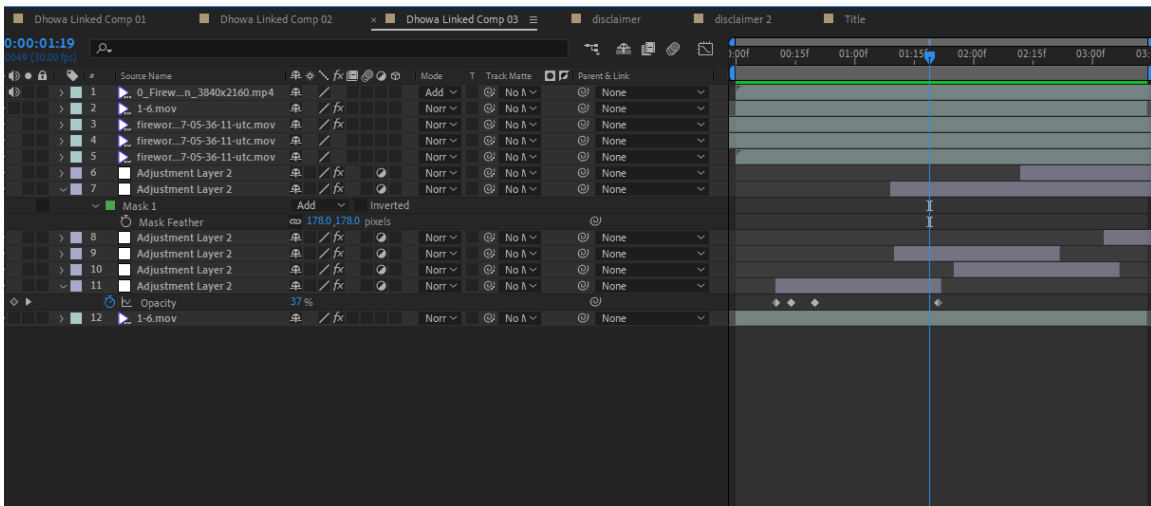


Figure 4.4: Timeline of Adobe After Effects

Adobe After Effects. Then followed by color grading, where the film enters for color balancing, contrast, and saturation adjustments using DaVinci Resolve or Premiere Pro to achieve a bright and sunny effect. In parallel, audio editing and sound design are completed so that the sound components can complement the visuals produced.

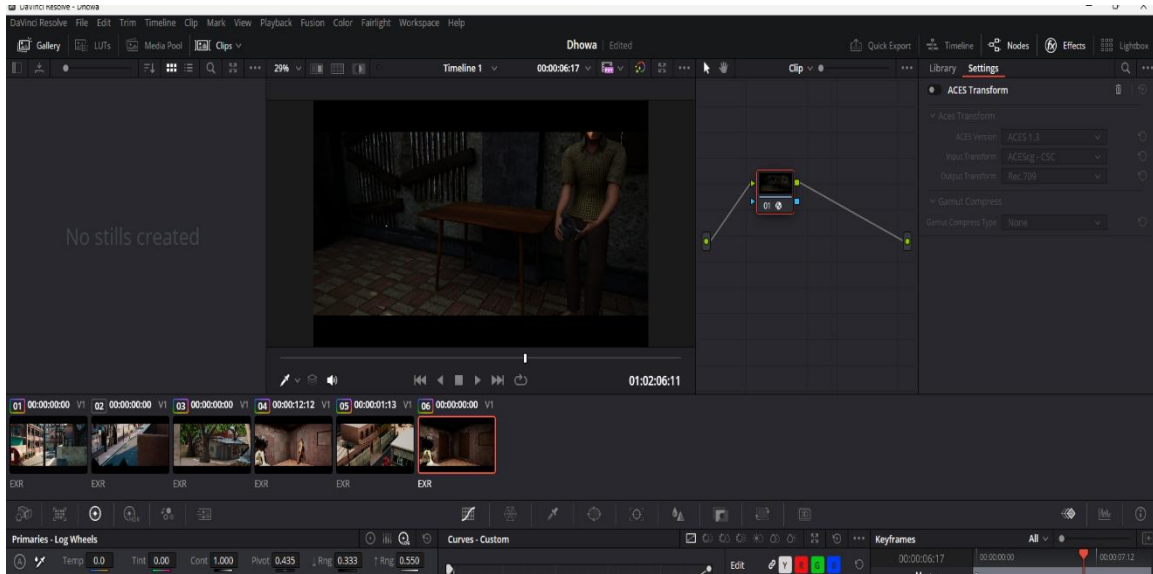


Figure 4.5: Color conversion in DaVinci Resolve

Finally, the film is exported in the intended final format for distribution after editing, color correction, and sound finalization. This very process also accounts for the contributions of other team members. Thus, with it, online cloud storage and file-sharing provide means for the teams in the editing with sound and color grading to work at once, hence sharing assets and adjustments.

4.3 Troubleshooting and Technical Challenges

During post-production, a lot of different sorts of technical challenges pop up, like rendering issues, audio sync problems, and ensuring that the final output is as per the specifications. The most common problem in post-production is frame and resolution conflicts between all the individual assets, to have uniformity and not experience visual problems such as choppy playback or mismatched frames; another issue is software incompatibility.



Figure 4.6: Render issue of scenes

Certain aspects of one software may not be fully compatible with another one. For example, After Effects' motion graphics may require extra efforts when importing them to Premiere Pro to avoid losing the visual integrity of the effects. Another color grading challenge would be dependent on whether there are multiple footage sources, like if all the assets came from different lighting conditions or color temperatures. To keep the process consistent, the LUT (Look-Up Table) could maintain that color balance through assets.

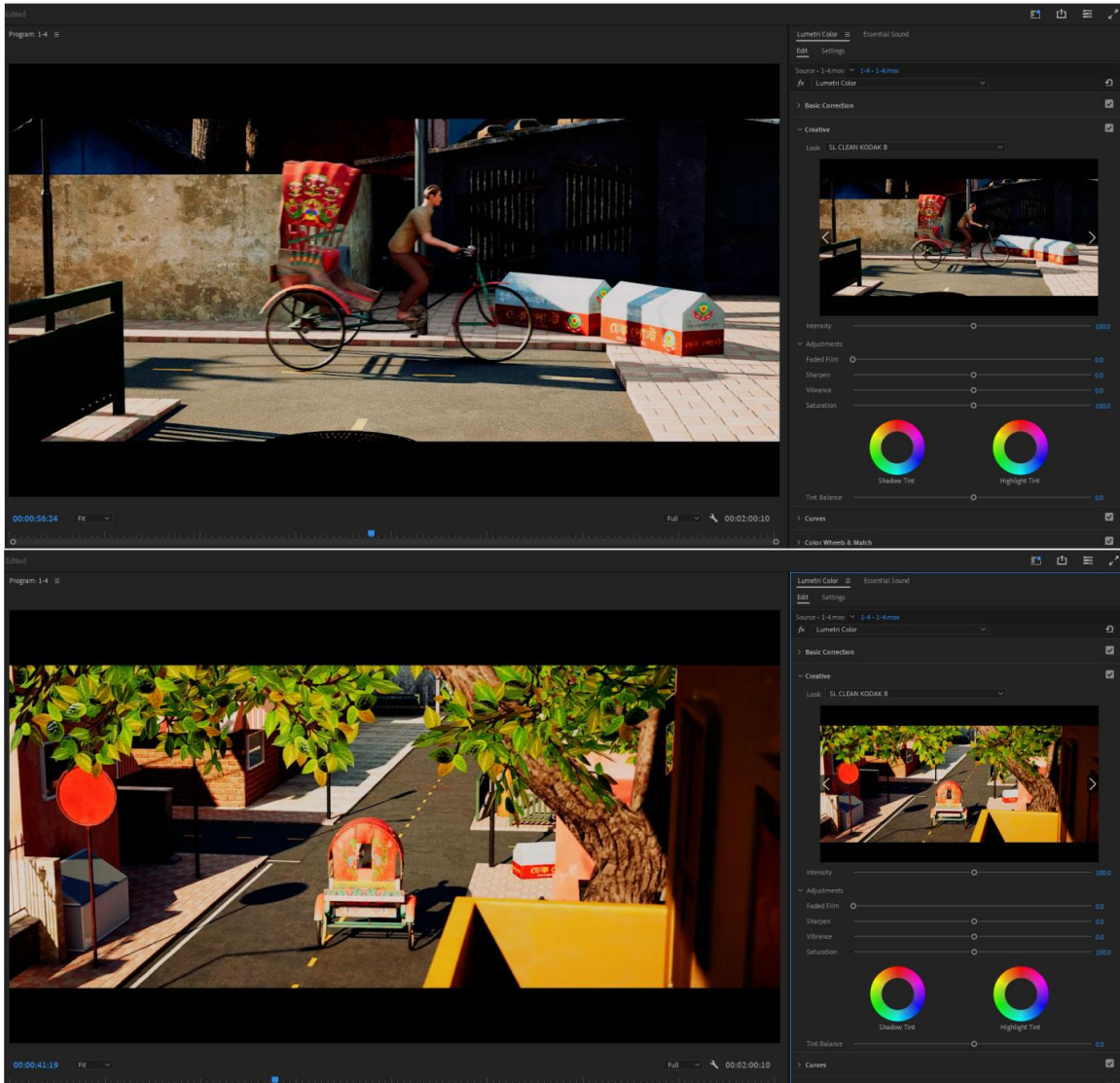


Figure 4.7: Lut differences in different frames

Other challenges include sound syncing, in most cases not aligning properly with the picture. The more important troubles regaled by a rendering company with its 3D output were texture errors on some frames rendered. Texture errors, in this regard, would refer to inconsistencies on certain surface appearances whereby textures either do not have resolution or look distorted in the rendering process.

Translation requires a certain treatment of errors associated with post-process stage. Following the post-production, it uses Adobe After Effects for reapplying modified texture

maps and resolving the composite frames inconsistently into final sequence. In cases where re-rendering was not a possibility due to time constraints, minor texture discrepancies were repaired via masking and compositing techniques for visual continuity among all the shots.



Figure 4.8: Texture/fake shadow issue



Figure 3: Texture/fake shadow issue fixed

These might be alleviated through routine checks and tests over the entire post-production phase. Backing up and keeping an organized workflow structure is also really beneficial when faced with any possible technical hurdles. Moreover, by keeping communication clear with team members, all problems will be recognized and solved as quickly as possible.

CHAPTER 5

Editing Techniques and Storytelling

Editing is, in fact, the most crucial phase in any animated short film as far as the course of the narrative and the entire impact of the story is concerned. It is through careful editing that one seals a film as an all-in-one sequence that resonates with the audience. For a, the process of editing results in giving life to the characters, concepts, and emotions involved therein. The study now examines critical editing techniques-their contribution towards the effective storytelling. Film editing is the selection, arrangement, and modification of scenes and shots into a smooth and involving narration. The basic tenets of editing include arrangements of pacing, rhythm, and coherence of the whole film in which each scene should serve the larger narrative in e in Dhowa. Editing is done in Adobe Premiere Pro, where the rendered image sequence is imported and organized into a timeline. Beginning with rough cut assembly, where the editor places the scenes in intended order, clearly indicating flow and logic: from there, the fine-tuning of the film takes place, including trimming, cutting, and adjusting the duration of shots to be viewed.

5.1 Narrative Flow and Pacing

The narrative flow in storytelling indicates the moments at which it normally changes. Pacing, on the other hand, controls how fast that story progresses. They are particularly important when considering how engaged an audience is with the film: Both of them are essential for maintaining partiality with the audience in Dhowa. Pacing is careful and really slow build-up of emotional beats to dilations-related rhythms with respect to the tone within which the story is told. For example, to absorb the dramatic scenes more profoundly, slower pace is employed. For the same action scenes, more rapid sequences are used to convey urgency. The transitions between these scenes are carefully orchestrated to make it both easily flowing and relevant for audience-bondage with the characters and their journey.

5.2 Scene Transitions and Cuts

Transitions between scenes and cuts are some of the most vital editing techniques that can assist in revealing changes in time, as well as change of place and atmosphere. In *Dhwa*, the use of sharp, clear, and well-articulated cuts ensures that the viewer is able to easily follow the narrative.

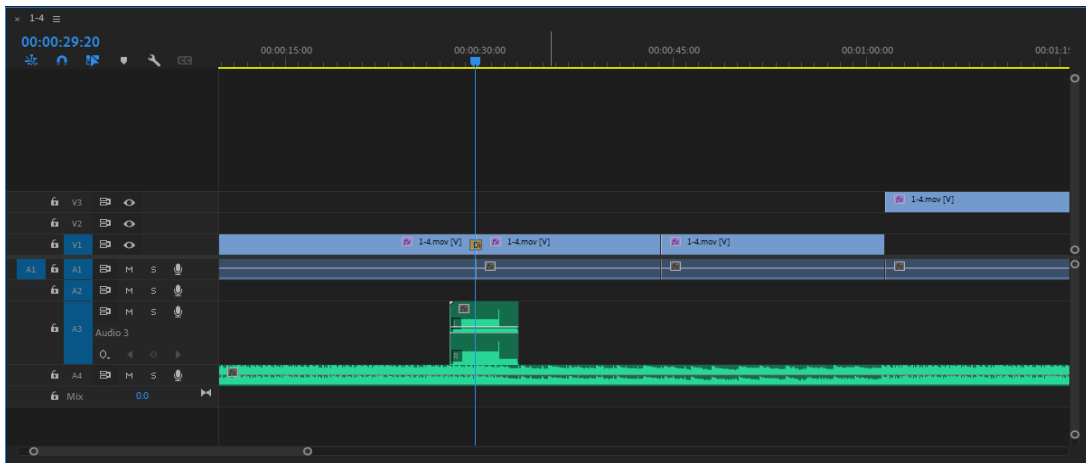


Figure 5.1: Scene transition and cuts adding

Different cuts are used, including match cuts, jump cuts, and cross cuts, to keep the viewing experience entertaining. A match cut keeps visual continuity, while a jump cut could indicate a time lapse or a sudden shift in the scene. Scene transitions are also enhanced by visual effects and motion graphics done in After Effects to give a sleek feel to the film, which is also relevant to the tone and theme of the story.

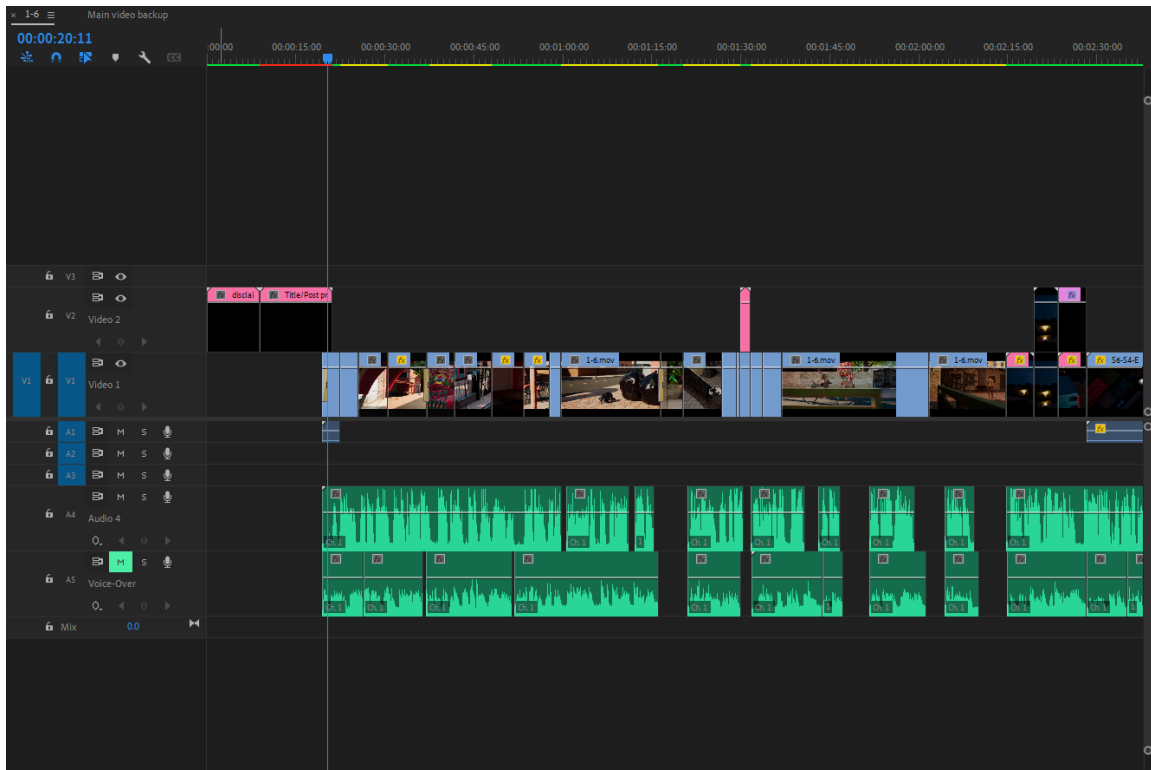


Figure 5.2: Scene transition and cuts adding

Strategic application of precise cuts and transitions ensures that the storyline yet maintains a rhythm that keeps the viewer engaged emotionally in the happenings.

5.3 Visual Continuity and Timing

Visual continuity signifies that smooth transitions between shots create a coherent visual experience in all from start to end in a film. This area of editing is most critical to ensure that viewers do not notice any major inconsistency between shots like differences in angle and lighting. In *Dhowa*, plenty of care is taken to ensure its visual continuity by aligning the composition, lighting, and positioning of characters and objects within the scenes, for example. The powerful editing features of Premiere Pro enable accurate visual matches so that everything, as far as possible, flows into the next shot. Timing is also equally important because the overall length of a movie is adjusted according to the story's course and resonance with the emotional atmosphere. With the proper timing, those important

emotional moments can hold audiences on the edge of their seats, while other times it's wise to keep an active pace going as well.

5.4 Enhancing Storytelling through Editing

Essentially, the editing is done to do justice to the story and amplify the emotional and thematic range of the narration. In *Dhwa*, editing is vital in effectively communicating the core message of the film-arising from thoughtless behavior, the theme of compassion. Editing would emphasize the emotional moments and intensify the journey within the characters. It has to do with altering the pacing, shot choices, and sound design to invoke the desired emotional response in the audience.



Figure 5.3: Close up shot of Hero Character

A close-up on a character's face with slow pacing, for instance, can heighten an emotional struggle. At the same time, music or sound effects are coupled with the visual to reinforce activity's impact without breaking narration's flow.



Figure 5.4: Story enhancing with wide slow shots

Slowly, but surely, the painstaking editing choices of Dhowa will have to deliver its messaging, thus making viewing sessions more riveting and emotionally intense for viewers.

CHAPTER 6

Color Grading and Visual Enhancements

Whether it be animation or live-action, color grading plays an essential role in determining the mood, ambiance, or visual attractiveness of any film in particular. It makes color selections and visual enhancement, which highlight narrative and feelings to be expressed that not words or images can achieve alone. In Dhowa, using color grading, the colorful and cheerful look is going to be produced, inspired by m movies such as Luca, whose thematic resonance follows the understanding of optimism and hope. In this chapter, we talk about the principles, tools, and techniques in color grading and visual improvement, and how these choices impact the story at all levels. Color theory forms the foundation for color grading- it provides an insight into how colors can bring emotions and build atmosphere.



Figure 6.1: Luca color palette for inspiration



Figure 6.2: Luca movie color and look

Basic principles of color theory constitute complementary color and analogy colors and harmonies of colors. In the animation, colors selected can also define characters, shape scenes, and create environments in the same way as the emotional atmosphere of the film itself. Bright-colored yellow hues, orange, and red are most likely to stimulate feelings of warmth, happiness, and vibrancy, while cooler shades such as blues and greens bring about a sense of tranquility or sadness.

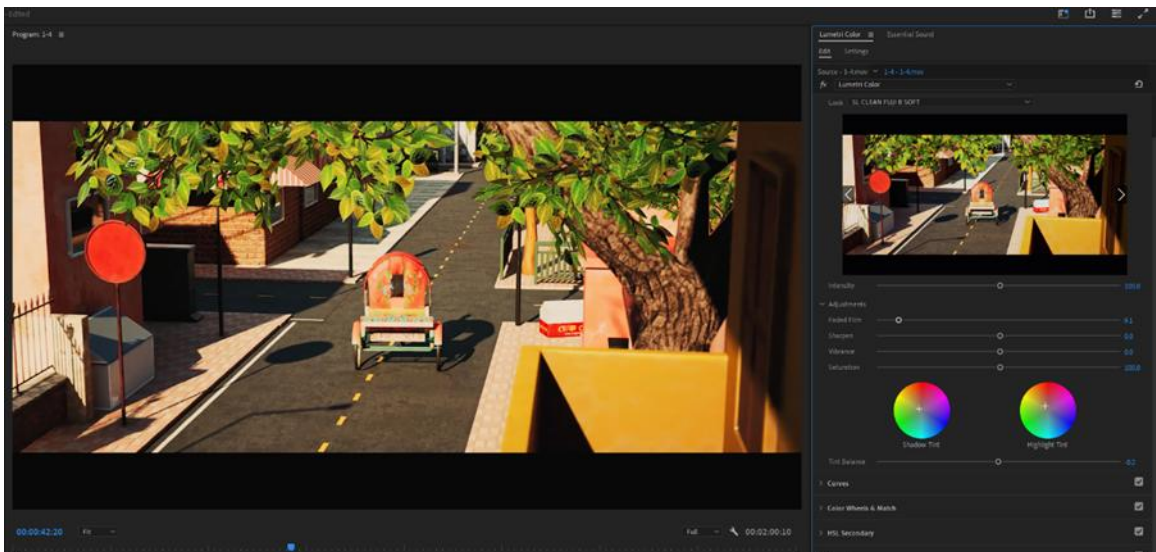


Figure 6.3: DHOWA color grading

Dhowa has chosen a sunny bright coloring scheme to back up the hopeful theme of the movie. Vivid colors employed would illustrate the optimism and strength of the human spirit. Moreover, the contrast of colors is being purposely used to highlight crucial areas within the scene and direct the attention of the viewer to where it counts most.

6.1 Tools and Techniques for Color Grading

Color grading and correction with Adobe Premiere Pro. For fundamental color grading and correction, one uses Premiere Pro, and the other, much more specialized applications in complex adjustments involving superb control over colors, shadows, and highlights, including DaVinci Resolve. Lifted, gamma, and gain modifications are applied to shadows, mid-tones, and highlights, respectively, achieving the desired contrast and brightness. In addition,

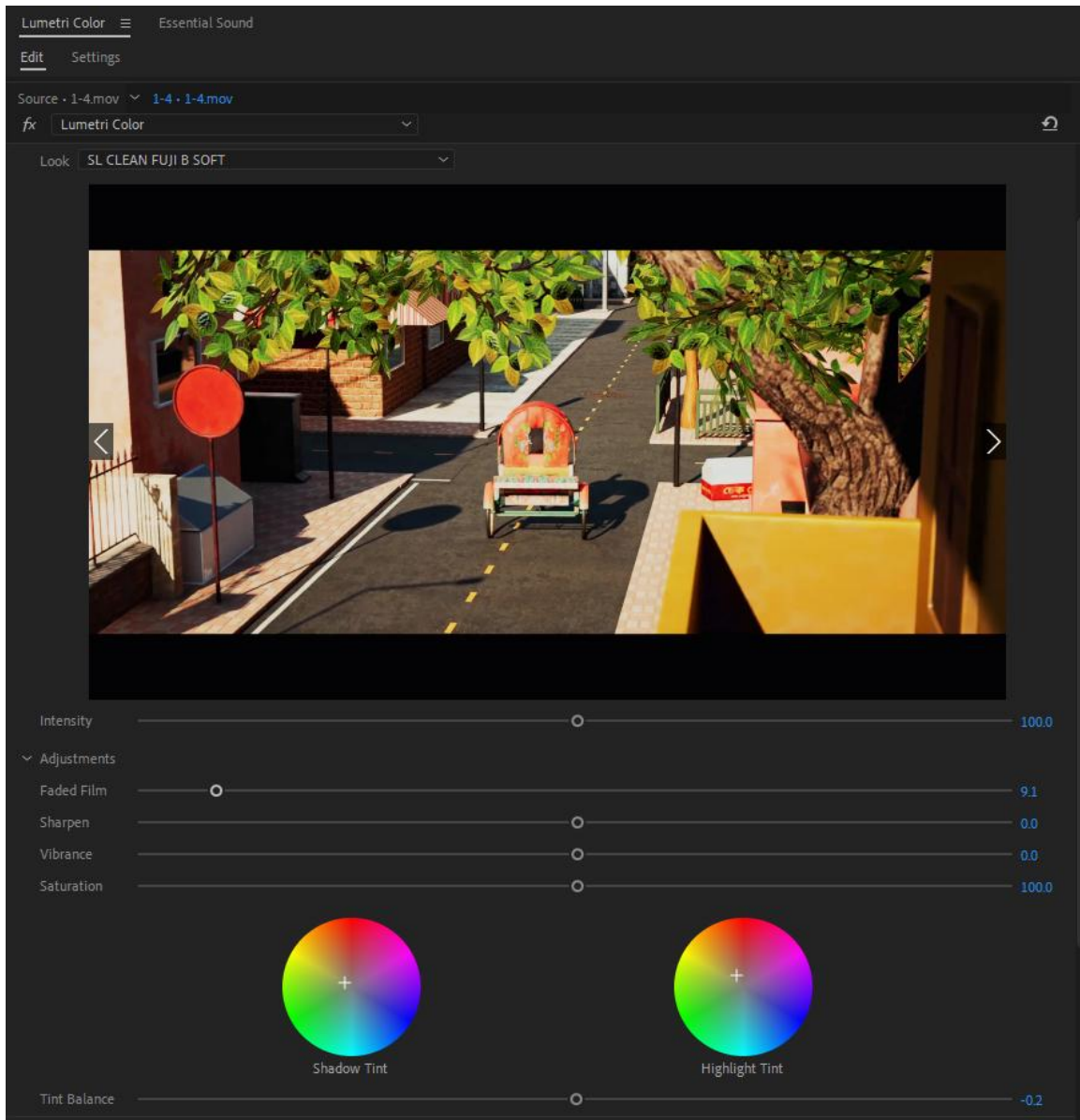


Figure 6.4: Bright sunny color grading of DHOWA

LUTs or Look-Up Tables are used for making color consistent across the film and tying every one of them together in a really neat look for every scene. A warm LUT is used particularly in order to bolster sunny, bright looks; it further intensifies Dhowa's pretty vibrant and joyful ambiance. Specifically, to ensure color accuracy, the gradation process is closely observed on calibrated displays.

6.2 Incorporating Luca Style through Color Grading

The whole concept of aesthetic color grading into Dhowa from Luca was the intentional bringing of warmth with positive sunshine in animation. The vibrant color palette in Luca, rich with golden hues, sunlit scenes, and Mediterranean warmth provides the joy, lightness, and optimism that one gets from the film. Very specific grading techniques were applied to ensure bright, sunny effects that are characteristic of Luca to achieve similar results in visuals. First, it was to create overall tone adjustments to set up a warm, golden ambiance.



Figure 6.5: Color grading like Luca

This took place through warm color temperature adjustments-preserving yellows, oranges, and soft reds; it resulted just as well in the natural sunlight feel all through shaded scenes. In that way, the atmosphere is lively and welcoming like that of the coastal town of Luca, cast under golden LUTs (Look-Up Tables)



Figure 6.6: Warm yellow tone for DHOWA

to on the side bring warm sunlight, very much similar to the Italian sunlit palette famous for Luca. Again, there was that shadow that gave cooling to the highlights. Just as Luca created a play between the warm sunlight and cooler shaded areas, so was it in this film. This seemed, furthermore, to bring warmth yet not so overpowering, for the sun would not wholly glare with much shadow play hiding away from it. Additionally, color contrasts were really manipulated in such a way as to keep high vibrance without jeopardizing the tone in animations; for instance, in Luca, the color contrast between different landscapes and characters seemed to be very bright and solid. This attention to colorful contrasts ensures that elements become accentuated by flushing differences in illumination and then brings out the glory of the animation. A similar approach was followed in Dhowa, ensuring that the colors of the environment complemented those of the characters. One example would be the bright and saturated colors in the background and slight desaturation within the characters' clothing ensured that the characters were distinctive yet blended well in their surroundings. The final thing was very important skin tone grading, as per Luca Styling. It applied soft, warm skin tones to the characters, Jahir and Rakib being the example while keeping them vibrant and full of life. Very carefully grading the skin and clothes makes sure that they are never washed by the vivid background. All these color grading decisions made Dhowa keep a similar cheerful and cozy paradise between characters in Luca. Most importantly, this sunny, golden color, along with a vibrant contrast and very well-balanced

shadows, provides the atmospheric enhancement to Dhowa that gives the same sense of joy and optimism brought about by the palette used in Luca.

6.3 Maintaining Consistency in Visual Tone

An important color-correction and problem in the motion picture is that of uniformity. Since most animations scenes are done singlehandedly under different light settings or locations, color grading should really be done consistently in all scenes.



Figure 6.7: Color consistency of DHOWA

For Dhowa, maintaining this consistency is top priority in creating a holistic viewing experience. The warm, sunny color palette is used throughout the film with a keen eye for lighting, shadowing, and contrast in every scene shown. This kind of consistency also ensures that, within the context of the film, the atmosphere remains continuous because big jumps can shatter an audience's full immersion. Also, an A& B comparison is made throughout the time process by using the reference monitor; to look at scenes and ensure they have the qualified color with the right visual recipe.

6.4 Application in Dhowa

Some of the important color grading selections in Dhowa were intended to enhance the themes of Hope, Optimism, and Social Consciousness. The entire cheerful and bright look of the film was created with the use of numerous warm shades like yellow, orange, and light blue in the respective scene. This particular visual approach is meant for the characters as well as the surrounding spaces-it is directly applied to the landscapes and structures that

receive bright color enhancement, making the world of Dhowa an inviting and positive atmosphere. The clothing and complexions of the characters are neatly adjusted to those of the space to maintain a balanced congruence between them. The color grading would have changed a little bit to show a change in mood during reflection or tense moments. For example, there could be a slight desaturation of colors or cooler tones to show somber scenes, followed by a return to warmth as the storyline moved to a more hopeful ending. In general, color grading constitutes an important tool to bolster the drama effect and visual storytelling in Dhowa.

CHAPTER 7

Motion Graphics and Visual Effects Integration

Motion graphics are essential for boosting visual attractiveness and maintaining the continuity of an animated short film. In *Dhowa*, motion graphics were employed to emphasize particular narrative aspects and generate visual interest. The primary software utilized for motion graphics production included Adobe After Effects and Adobe Premiere Pro. After Effects played a crucial role in animating lively title sequences and personalized motion graphics such as the Title Animation and Ending Credit Animation, which significantly contributed to establishing the mood and concluding the narrative. The title sequences aimed to present the film with an captivating visual approach, while the concluding credits offered a creative and fulfilling ending. Premiere Pro was utilized to edit and compile the motion graphics into the finished video. This synergy facilitated a seamless blend of motion graphics with the animation, preserving the visual coherence and rhythm of the film.

7.1 Incorporating Visual Effects into the Narrative

The main attention for all visual effects in *Dhowa* was to enrich and support the narrative with specific important emotions and instances. Not like pouring the whole theater with great effects, it is about using them in an organic manner to highlight significant moments from the script. For instance: when Jahir cleans his hands, a simulated genuine water flow effect uses a standard water asset. The delicate visual effect acted as a practical illustration of what the characters did but also contributed to the scene's effect. Moreover, in the last scene, a stock fire-burning video asset was added. This fire effect was incorporated using After Effects to ensure smooth incorporation with animation without shying away from the visual style of the film. Combined, the water and fire effects added realism and emotionality to the scenes without overshadowing the visual narrative.



Figure 7.1: Applying 3D Camera Tracking

A 3D camera tracking approach was applied to integrate fireworks effects within the sequence of the climax, ensuring that such effects were coordinated with the motion of the camera to optimize blending with the animation throughout the scene. Rotoscoping (roto) was further employed to isolate some areas of the scene within which the fireworks would be visible



Figure 7.2: Incorporating Fireworks FX in Post

behind some characters and foreground objects, thus heightening the immersive nature of the visual. There was also a technical problem identified in one shot having a spurious shadow, which caused its lighting to be inconsistent. This was rectified by removing the false shadow and masking and compositing it.

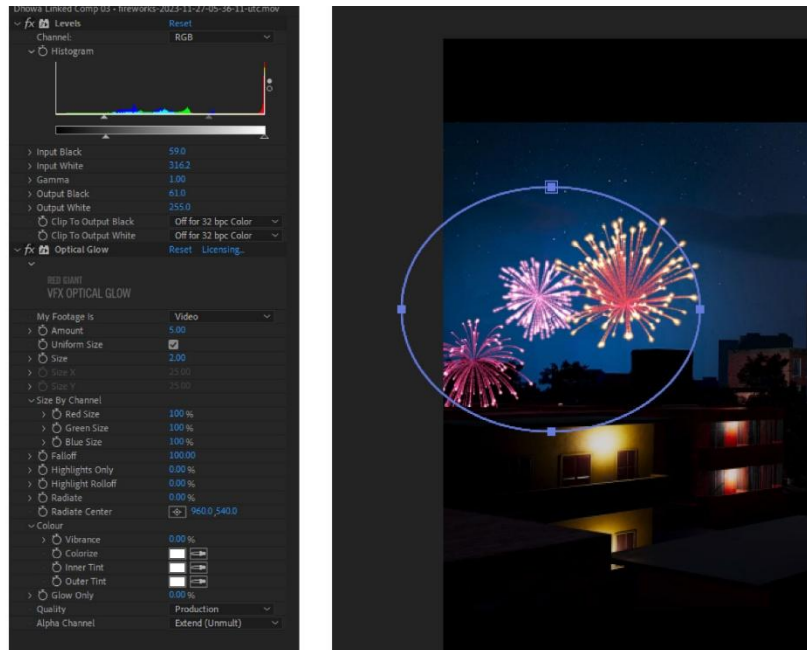


Figure 7.3: Fireworks FX Lights Adding

A more accurate shadow was then placed using the texture map that originally came with the scene, ensuring the continuity and alignment of things with the lighting setup. The Title Animation played actively in the lively presentation of the film, setting the emotional stage at the level of the story. The Ending Credit Animation, made in motion graphics, concluded the film in an incredibly smooth and beautiful fashion while linking the continuity of the narrative up to the last moments.

7.2 Creating Custom Motion Graphics Elements

Executing narrative moments and the entire film Dhowa with special customized motion graphics elements. Title Animation and Ending Credits Animation received focused

attention in that both were made to relay important information while at the same time encompassing the visual style of the film.



Figure 7.4: Title “DHOWA” of the Film

Title Animation introduces characters and sets the journey into motion using smooth motion techniques like path animation and fade transitions to build a soft engaging visual. The purpose of Ending Credit Animation was to finish off elegantly with an objective of presenting the best possible form and bringing together creative and captivating ways of presenting credits, thus creating a lasting impression at the end of this film. These two graphics mechanisms were made using Adobe Illustrator, and their animation was done in After Effects for comprehensive and dynamic presentations.

7.3 Final Output and Rendering

Incorporating Title Animation and Ending Credits Animation into the movie has led to the final output and rendering stage.



Figure 7.5: “DHOWA” Title Animation



Figure 7.6: “DHOWA” Title Animation Blending

This stage was essential for timing adjustments and checking whether the motion graphics were going with the story's rhythm. The Title Animation was placed right at the beginning of the story to set a rhythm for the entire film. Ending Credit Animation was precisely

scheduled to finish the story with a pleasing visual conclusion. The last rendering of the project was carried out in After Effects and Premiere Pro with accurate settings such that the quality of the motion graphics was pristine and the experience entirely seamless. This resulted in an elegant and well-defined short film achieved through an impeccable amalgamation of animation and motion graphics.

CHAPTER 8

Sound Design and Audio Editing

Audio has a very significant role in storytelling as it completely enriches through animation the audience's bond with the storyline. For *Dhowa*, sound became the backbone while establishing the important undercurrents of social consciousness and emotional richness. Because the characters do not speak, the sound design had to be immensely engaging to tell the story and create feelings. The voiceover and sound effects were to take the place of traditional narrative methods and animate the visuals while keeping the story engaging and understandable. In this case, every audio component---characters moving, surrounding sounds, or environmental sounds---was important to convey the message of the film.

8.1 Tools and Techniques for Audio Editing

Adobe Premiere Pro was the primary software used for editing the sound during the making of *Dhowa*. Premiere Pro truly has excellent audio editing and can provide precise audio control in terms of mixing, synchronization, and modification. I utilized it for editing, placement, and fine-tuning different sound effects, voice-over, and music. The strong keyframing feature of Adobe Premiere Pro aided in automating volume adjustments, fade-ins, fade-outs, and pitch modification whenever required. Also, its fast connection with stock sound libraries and its simple audio sync to the animation timeline made it essential for my workflow.

8.2 Sound Effects and Foley Integration

To animate the world of *Dhowa*, I included a variety of sound effects taken from stock libraries like Envato Elements, Epidemic Sound, and Artlist. These platforms provided a diverse selection of premium sound resources, which were then customized to fit the scenes of the animation. For example, in the scene where Jahir washes his hands, I used a common water asset that depicted the motion and flow of water very well. In a similar fashion, for the dramatic fire scene, I added stock fire visuals and audio to make the scene more realistic. Combining these sound effects with the animation, I hoped to create an immersive

and believable environment that furthered the viewer's emotional engagement. Further, ambient noises—such as birds' chirping and city noise—and even distant speaking voices set up the scene as well as aural texture for each stage.

8.3 Voice-Over and Music Selection

The animation had no speech and therefore really needed a professional voice-over for the telling of its story. I worked with a voice actor done to provide a lucid emotive narration which resulted in guiding the viewing into the film. More than that, the voice-over was very well synchronized with the pace of the animation and the movements of the characters, making it an integral part of the story.

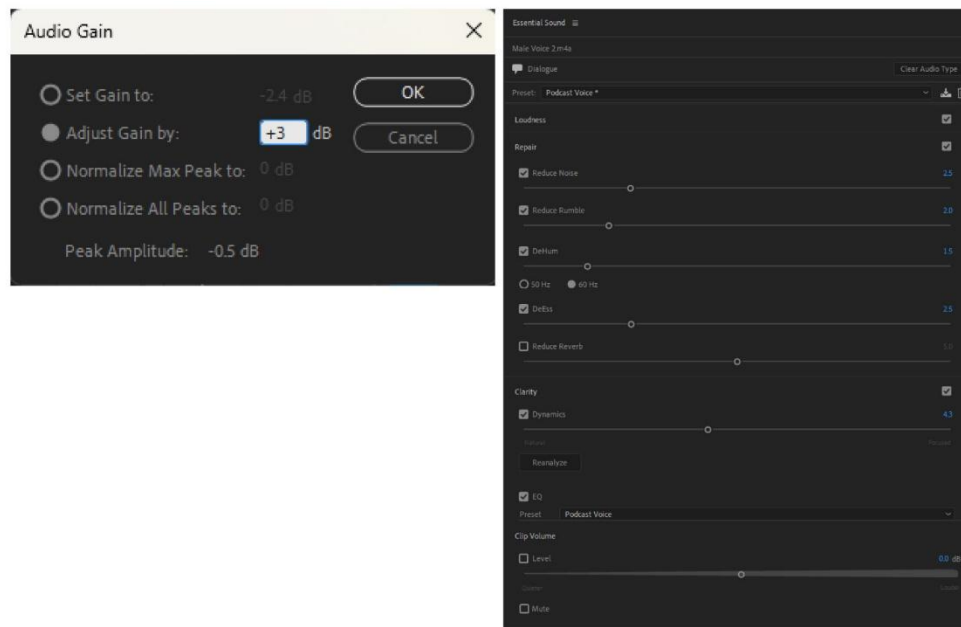


Figure 8.1: Audio Gain Increasing and Fixing

In fact, I have chosen some background music from Envato Elements and some other libraries for their suitable listener's audition with respect to the animated film's vibrant and light-hearted tone. The music stressed important emotional moments in the animation, from calm, pensive segments to much heavier and intense scenes. I ensured that the transitions in music were smooth, connecting to the voice-over, thus involved in effective complementarity between them.

8.4 Balancing Audio Layers and Final Mix

All voiceover work, sound effects, and music have been finished, and the next vital thing is to balance out the audio layers. The process goes for modifying the relative intensity levels to be achieved with each so that they can assure clarity with no element drowning out the others. The voiceover was singularly carefully tuned to be distinct and clear but with some effective behind-the-scenes flying music and sound effects. . The final mix demands precision with regard to even volume levels and is more concerned with providing one listening experience. I used multi-layer audio mixing from Premiere Pro to massage and adjust each audio track into a final well-balanced output for whatever playback.

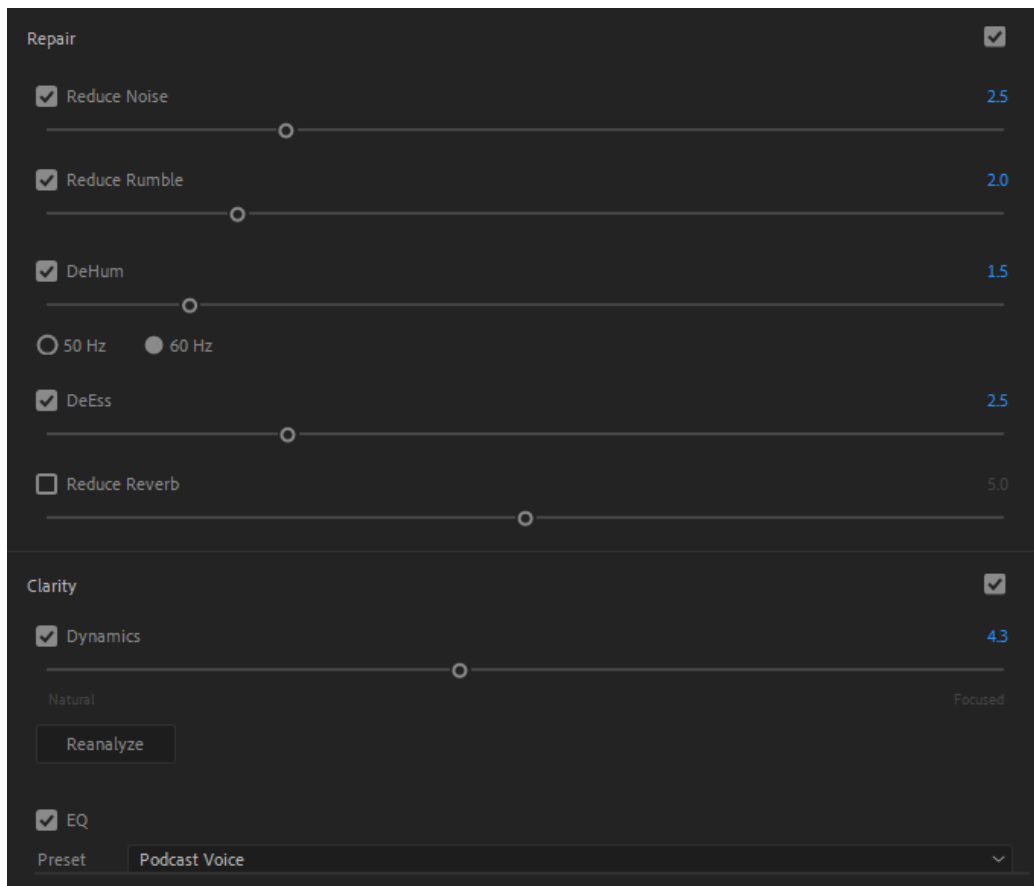


Figure 8.2 Balancing Audio

CHAPTER 9

Impact on Society, Environment, and Sustainability

The most crucial reason for creating the animated short *Dhowa* is to develop social awareness amongst people regarding the influences of human behavior on society. The narrative explains that careless acts such as firing fireworks, etc., for enjoyment could lead to severe accidents and ecological damage. The film also reveals individual accountability and the outcome of innocuous seeming behaviors on community safety by emotional narrative mode. *Dhowa* gives itself as an emotionally engulfing narrative with a parental-son story for content in order to portray the most powerful social message that would evoke reflection in action.

9.1 Environmental Impact Considerations

While the principal focus of *Dhowa* is social awareness, it also has an indirect angle on environmental concerns. It shows damaging effects of fire hazards and sound pollution through scenes of firecrackers and lanterns. Such visual representation forces a common individual to be aware of the environmental risks attached to celebratory activities. It is this kind of artistic choice-in a way describing the condition post a fire incident-that creates that sense of responsibility and self-reflection among the audience related to it.

9.2 Ethical Aspects in Content Creation

Dhowa, an ethical storyteller who focuses on the several custodian arrangements he potentially has under consideration, has given all that will be possible in designing the film without sensationalism but simply telling it, quite honestly, to convey its own suggestion. All characters are not drawn negatively or exaggeratedly; hence the message remains sensitively inclusive. In addition, he chose not to directly blame but rather to come up with learnings and positive change; this was a conscious decision made to construct much thoughtfulness and responsibility in a piece of media. Thus, the team ensured that the resultant media was family-friendly, understanding the weight of the emotional baggage carried by the subject matter.

9.3 Promoting Positive Change through Media

Dhowa does a lot by promoting awareness of public safety; it is a strong tool for inspiring change. By showing the emotional aftermath of the accident, the film reminds viewers to think about what they are doing-better choices in real life. The absence of dialogue with effective visual storytelling ensures that the message can be universally understood by people, regardless of language and culture-the same way Dhowa reaches out to a wider audience to help make its social message loud itself.

9.4 Sustainability in Media Production

Sustainability was a condition holistically looked at during production in Dhowa. The entire film was digitally produced without any physical materials, thus reducing waste and making a minimum even. Adobe, After Effects, and Unreal Engine were used quite well on a personal workstation while reducing one's dependence on external resources or power-thirsty machines. Digital techniques and stock assets from platforms like Envato Elements and Epidemic Sound enabled Dhowa to produce something low environmental footprint but high quality at the same time. The workflow of the project was created by reuse because quite a number of assets were organized for potential re-use in projects like it in the future.

CHAPTER 10

Conclusion and Future Scope

Indeed, the post-production process of the animated short film *Dhowa* was a complex yet hopeful stage when the visual narrative truly came to life. A good part of the editing using Adobe Premiere Pro and After Effects was devoted to pacing, storytelling refinement, and emotional impact, all of which were achieved through careful and deliberate cuts and transitions. Premiere Pro was used for the color grading with special emphasis on the brightness of the sunny style purely inspired by *Luca* for it to look visually beautiful. Motion graphics works as the title animation and ending credits were done so as to be harmonious with the film's tone. Sound design was achieved using stock SFX and music from Envato Elements, Epidemic Sound, and Artlist, combining voice narration, background music, and ambient effects that will manifest effectively as the emotional depth of the tale.

10.1 Key Learnings and Challenges

A lot was realized through this post-productivity phase. Planning the post-production pipeline was a key learning as this had a straight effect on the editing efficiency. The understanding of the balance between visual storytelling and audio design in merging the emphasis and maintaining the narrative was important. However, it proved to be difficult in terms of dependency on rendered image sequences instead of direct footage, making things complicated in file management. File size management with audio and visual coordination, yet bearing some many considerations with technical adjustments. Also, in the *Luca* way to have the color grading style desired involved multiple rounds of testing to get the lighting and color balance just right.

10.2 Potential Areas for Improvement

The success met at the completion of the post-production phase of the project does leave room for improvement in future endeavors. The most interesting workflow enhancement would be the step toward a more streamlined file management system, especially when

dealing with long image sequences. Another aspect is advanced color grading control in DaVinci Resolve, which offers a more finely tuned ability to maintain overall consistency. One area that could use more development is using more specific sound effects than just drawing from the library or standard stock, to make it sound original to the story.

10.3 Scope for Further Developments

Moreover, there are several ways in which the editing strategies and post-production workflow currently employed in Dhowa can be expanded and sharpened. Another growth area would be elaborating the short film into a full feature length with new scenes and character development to bring greater emotional depth in order to better drive the main social awareness message. Additional sequences can address the aftermath of the fire accident the event itself and the community's example, continuing the strong-attitude perpetrator. The project can also be tailored for education, such as presenting workshops and seminars on animation techniques, post production strategies and the ethical responsibilities of content creation. The other possible reuse of the available materials including 3D models, voice-over narrations, and visual effects for possible sources of social campaigns or public announcement, hence expanding the reach of the film to a larger audience. Technically, the work is not over in post-production. Advanced tools such as DaVinci Resolve can be employed to yield a more precise color grading and experimentation on Dolby Atmos for improved spatial sound design is expected to deliver a higher level of cinema quality. Furthermore, using high definition VFX assets and very dynamic motion graphics would create even better visual scales in sequences. The last thing one can build into the collaborative environment of production is a larger creative team's involvement in future projects depleting a team of artists dedicated to each specific task advanced lighting design detailed animation refinement specialized sound engineering leading up to a polished, professional result overall. In total, these advances will not only result in further developments regarding both the artistic and technical sides of Dhowa but also strengthen them.

REFERENCES

- 1) Ge, W. (2024). *Research on Color Management and Color Grading Applications in New Media Movies*. *Journal of Education, Humanities and Social Sciences*, 41. Retrieved from <https://drpress.org/ojs/index.php/EHSS/article/view/26589>
- 2) Ge, W. (2024). *Research on Color Management and Color Grading Applications in New Media Movies*. *ResearchGate*. Retrieved from https://www.researchgate.net/publication/385439689_Research_on_Color_Management_and_Color_Grading_Applications_in_New_Media_Movies
- 3) Zhang, Y. (2023). *Analysis of the Application of Digital Color Calibration Technology in Film and Television Post-Production*. *International Journal of Culture and History*, 10(1). Retrieved from <https://www.macrothink.org/journal/index.php/ijch/article/view/22090>
- 4) O'Meara, J. (2019). *Color Grading, Restoration, Archives and Criticism*. *The Moving Image: The Journal of the Association of Moving Image Archivists*, 19(1). Retrieved from <https://pubs.lib.umn.edu/index.php/tmq/article/download/3551/2869/19400>
- 5) Everett, A. (2018). *Color Grading In Film*. *Honors Thesis, Appalachian State University*. Retrieved from <https://libres.uncg.edu/ir/asu/f/Everett%2C%20Audrey%20Spring%202018%20Thesis.pdf>
- 6) Afifi, M. (2021). *Image Color Correction, Enhancement, and Editing*. *arXiv preprint arXiv:2107.13117*. Retrieved from <https://arxiv.org/abs/2107.13117>
- 7) LeGendre, C., Lepicovsky, L., & Debevec, P. (2022). *Jointly Optimizing Color Rendition and In-Camera Backgrounds in an RGB Virtual Production Stage*. *arXiv preprint arXiv:2205.12403*. Retrieved from <https://arxiv.org/abs/2205.12403>
- 8) Sikudova, E., et al. (2017). *A Gamut-Mapping Framework for Color-Accurate Reproduction of HDR Images*. *arXiv preprint arXiv:1711.08925*. Retrieved from <https://arxiv.org/abs/1711.08925>
- 9) Brown, B. (2016). *Cinematic Techniques for Color Grading*. Routledge.
- 10) Hollyn, N. (2009). *The Film Editing Room Handbook*. Peachpit Press.
- 11) Wheeler, P. (2012). *Digital Cinematography: Fundamentals, Techniques & Workflows*. Focal Press.

- 12) Noam Kroll. (n.d.). *The Psychology of Color Grading & Its Emotional Impact on Your Audience*. Retrieved from <https://noamkroll.com/the-psychology-of-color-grading-its-emotional-impact-on-your-audience/>
- 13) Suite Studios. (n.d.). *The Palette Matters: The Psychology of Color and Its Influence on Film & Video*. Retrieved from <https://blog.suitestudios.io/article/the-palette-matters-the-psychology-of-color-and-its-influence-on-film-video>
- 14) Frame.io. (2022). *Color Grading Techniques and How to Use LUTs for Professional Film Looks*. Retrieved from <https://blog.frame.io/color-grading-techniques>
- 15) Pixar Animation Studios. (2021). *Color Theory and Grading in Luca*. Pixar Behind the Scenes Featurette.
- 16) Marvel Studios Post-Production. (2021). *Color Management and VFX Integration in Avengers: Endgame*. Marvel Studios Blog.
- 17) BBC Creative. (2020). *Color Grading Techniques in Documentary Filmmaking*. BBC Creative Insights.
- 18) Adobe Premiere Pro User Guide. (2023). *Color Grading Workflow Documentation*. Adobe Systems.
- 19) Blackmagic Design. (2023). *DaVinci Resolve 18: Professional Color Grading Handbook*. Blackmagic Design Publications.
- 20) Autodesk Maya Guide. (2023). *Color Management and Grading Tools*. Autodesk.
- 21) monday.com. (2024, February). *Work operating system*. Retrieved January 6, 2025, from <https://monday.com>
- 22) Wonderly Font. (2025, January 4). *Wonderly Typeface*. Retrieved from <https://www.dafont.com/wonderly.font>

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