

FINAL YEAR PROJECT REPORT

Story development, screenplay writing and Direction for VFX Short Film: FUTURIANS

By

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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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DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH

28th MAY, 2022

APPROVAL

This Project titled “**Story development, screenplay writing and Direction for VFX Short Film: FUTURIANS**”, submitted by **Md. Zahirul Islam Tushar, ID : 183-40-548** 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 Multimedia and Creative Technology and approved as to its style and contents. The presentation has been held on 28th May 2022.

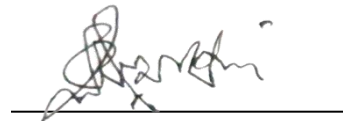
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DECLARATION

I hereby declare that this project has been done by me, Md. Zahirul Islam Tushar, ID: 183-40-548 under the supervision of **Mr. Md. Salah Uddin, Lecturer**, Department of Multimedia and Creative Technology, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere forward of any degree or diploma.

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We are really grateful and wish our profound our indebtedness to **Dr. Shaikh Muhammad Allayear (Professor and Head)**, Department of MCT Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “VFX” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to our team members, our batch mates, our honorable teachers and also to other faculty member and the staff of MCT department of Daffodil International University who has always supported us to finish our project.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

A superhero short film based on visual effects is really hard to make with a small team. The VFX market around the world is huge and it's growing day by day. In 2017 Bangladesh has earned \$800 million from multimedia technology sector. Bangladesh along with the world is moving into a digitalized world. Given the digital sector is huge and will play a big part in the 4th industrial revolution our govt is investing a lot. The growth of digitalization is astonishing. With this rapid growth our future will be based on digital media. New technologies like virtual reality and augmented reality that future is pretty near.

Our final project is a VFX short film. The VFX industry is huge and there are many areas to explore. We selected the short film route by seeing the massive success of Marvel and DC movies. A short film based on superpower and visual effects is pretty common now a days but very hard to full off right. To make a good film which the audience will like first we have to understand what the audience want. Reading the audience mind is very important. So, we did our research and found what the audience like. To make a short film memorable we have to have a name which suits out short film perfectly. This name will bear the identity of our short film. As our film is based on future and revolve around superpowers, we selected the name of **"FUTURIANS"**.

The short film revolves around a gangster's son who is oppressed by his father. Once he reaches his limits he starts fighting with his father and kills him and get all his wealth. After getting everything from his father he wanted to gain even more. He wanted to rule the world so he wanted superpowers. This leads to him reaching to a scientist who can help him make a serum to make superhuman. The scientist creates the serum but there were casualties. After realizing the danger of the Serum, he ran away but Shawon gets the serum and gains power. After gaining power he starts to destroy everything to show dominance. Other experiments who gained power goes to stop him.

TABLE OF CONTENTS

Contents:	Page
APPROVAL	ii
DECLARATION.....	iii
ACKNOWLEDGEMENT.....	iv
ABSTRACT	v
CHAPTER 1 :1.1 INTRODUCTION	1
1.2 Problem Statement and Solution	1
1.3 GOALS.....	2
CHAPTER 2 : RESEARCH	4
2.1 Similar project work analysis.....	4-8
CHAPTER 3- DETAILS OF SOFTWARE USED.....	9
3.1 Adobe Photoshop.....	11
3.2 Audacity.....	11
3.3 Adobe After Effects.....	12
3.4 Adobe Premier pro.....	13
3.5 Media encoder.....	13
3.6 Mocha Pro	14

CHAPTER 4 – DEVELOPMENT AND WORKFLOW	15
4.1 Project pipeline	15
4.2 Pre-production	16-23
4.3 Production	24
4.4 Post-production	25-39
CHAPTER 5 – EXPLANATION OF PROJECT	40
5.1 Introduction	40
5.2 Concept	41
5.3 Production	42
CHAPTER 6 – DISCUSSION	43
CHAPTER 7 – CONCLUSIONS	45
REFERENCES	46

TABLE OF FIGURES

CHAPTER 1 : INTRODUCTION.....	3
CHAPTER 2 : RESEARCH	5-8
CHAPTER 3- DETAILS OF SOFTWARE USED.....	10-14
CHAPTER 4 – EXPLANATION OF PROJECT	18-22
CHAPTER 5 – DEVELOPMENT AND WORKFLOW	24-34
CHAPTER 6 – DISCUSSION	39
CHAPTER 7 – CONCLUSIONS	40

CHAPTER 1

INTRODUCTION

1.1 Introduction

As a student of Multimedia and Creative Technology department at Daffodil International University there are many fields I can choose. In our department we have different types of media. The name of the departments says it all. Multimedia is a combination of different types of media. Here we are taught Illustration, 2D Animation, 3D Animation, 3D Modeling, Product Design and Visualization, Motion Graphics, Game Design and Development, Audio Compositing, UI and UX, Film Making, Visual Effects and many more. I could have chosen any of these for my final project but I chose Visual Effects as my final project. From the start till this day, I have learned a lot from my department and I have evolved my skills. I also had some amazing experience from the clubs which helped me to grow as a human being and improved my leadership ability. This helped me to lead my team as their Production and Business Management. All these skilled I learned throughout my university life has led me to this moment. From early childhood I was a big fan of anime and superheroes. I always wanted to make my own superhero film and here I am doing this short film as my final project. This is what I always wanted to do. I am really grateful to my supervisor Dr. Shaikh Muhammad Allayear, Professor and Head Department of Multimedia and Creative Technology, Daffodil International University for giving his approval for this project and letting me fulfil my dream. This VFX short film is based on superpowers and a sweet message. We should not play with natural law too much it can lead to destruction.

1.2 Problem Statement and Solution

The VFX industry is pretty huge and booming at the moment. With the massive success of Marvels superhero movies audience are getting into the VFX based movies and commercials. The Covid-19 pandemic also helped here. As people are inside house and cannot do outdoor activities they are drawn towards digital content and VFX is a great media to make our fantasy into reality in digital world. All these amazing VFX movies have captured the audience's heart. Sadly, even with this booming success our country was not able to grab this amazing opportunity. Even though Bangladeshi audience consume a lot of VFX content there aren't many good VFX content created in our country. We watch contents of other countries.

It's not like we don't have skilled person for good quality VFX. We have many individuals who are really good at this but they don't get the chance to shine as there aren't many projects which includes VFX. Our media market is not changing accordingly. We still make the same type of content. No one is going in this huge VFX field. No one is willing to take the risk and explore.

There were some films based on VFX but the executions weren't great as they didn't have any experience in this field. After those failed attempts people stopped making VFX films. VFX quality wasn't that good. The effects were subpar compared to the international standard. The main issue was blending the VFX with the scenes perfectly. As they were new to this and didn't know that much, they couldn't blend the computer-generated visual effects with the camera captured footage. For this reason, their VFX didn't look that good and people didn't like it.

As a student of Multimedia and Creative Technology department we were taught about film making techniques and visual effects. We learned from the professionals how to do cinematography for a VFX scene as they will apply the VFX in the post production stage we have to shoot the clips accordingly. Planning is most important in this process. After taking all the footage according to plan we have to blend the computer-generated visual effects with the clips and color match it accordingly. This will help the visual effect to blend with the normal clip and make the scene look natural. A good visual effect is which doesn't look artificial. The effects have to look normal like it is in the scene naturally.

1.3 Goals

As I have already said making a superhero film was my dream. After coming to this department, I met two amazing person who also had this dream. From our first year we had decided that we will make a VFX short film as our final project. We made a simple and short VFX film earlier as our course final project. While making that we learned a lot. We made a lot of mistakes and learned how to overcome those. We improved our skills and prepared for the final project. We researched about the market because no matter how good the film is if the viewers are not interested in these types of film, then we won't see success. Many people are interested in this genre and they are upset that our industry is not making any film in this genre. We want to change this though our project. We want to make a VFX short film which has good visual effects which will attract audience. But only good visual effects will not be enough to make a good short film. So, we have worked on our story. The story is simple with many twisted turns. The main issue we have seen with VFX short film is that they don't explain the story that much. So, we have explained each story so that viewer gets the whole story and they can relate to the characters.



Figure 1.1: VFX breakdown

Our main goal is to make a change in our VFX industry. With the success of our short film more audience will come and as a result more people will come forward to make content in this genre.

CHAPTER 2

RESEARCH AND ANALYSIS

2.1 Similar Project Work Research and Analysis:

Film media is a vast media content enjoyed by billions of people around the world. Even though our main focus is visual effects our media to represent visual effects is film. So, in order to convey our message properly through this project first we had to understand film media. Because without fully understanding film media we cannot make a proper short film which will demonstrate our visual effects the way we want. To understand film media, we had to do our research. As I have said earlier, I am a big fan of superhero movies from early age so I have been watching superhero film for a long time. Even though back then I only watched those films for entertainment purposes. Because I did not have that much knowledge of film making. But that did not stop me from noticing the different shot division which helped to elevate the scene dramatically. Even though I did not understand the logic behind those shot divisions I get the gist that different shot division conveys different meaning. After coming to Multimedia and Creative Technology department I had the opportunity to learn about film making from industry specialist. The first course which I got about film making was “Film Studies and Appreciation” taken by Suman Paul Sir. In this course I learned about the different shot division and why these shot division are used for different purposes. I was astonished by all these information. After learning these I started to rewatch some old movies that I watched a while ago. This time with the knowledge I viewed those films from a different angle. I started to point out why the film maker used these shot division for that scene. What was he trying to say by recording this scene in this shot division? I started to question everything I see. I used to ask my faculty why that particular shot division was used in that scene. Was there any other shot division which could have portrayed the scene in a better way. By questioning and getting answers from my faculty or from friend or sometimes learning in the internet. I started to understand film making. After that I got Creative Writing course taken by Dr. Shaikh Muhammad Allayear, Professor and Head Department of Multimedia and Creative Technology, Daffodil International University. In this course we were taught to be creative. We had to take a normal scenario and think about it in a different perspective. The way Dr. Shaikh Muhammad Allayear Sir sees everything from different perspective always amused me. I admired this side of him. After

listening to his lesson carefully I started to observe everything differently too. I started to notice that a simple thing can be viewed from different perspective by different people. This thinking can make a simple story interesting. A simple scene can be portrayed from a creative angle just by changing few things. This course made me enlightened and I started to observe film story in a different perspective.

After completing these courses my way of thinking and observing changed dramatically. While watching a film, animations, anime or reading manga even my unconscious mind started to think about the story plot and the different shot divisions. This was a huge and much needed change in reaching my ultimate goal which is this final project. As we were sure to make a superhero movie, I started to compile a list of movies, animations and manga to rewatch again to learn from them and to apply those into our film.

Marvel Movies: Iron Man, Iron Man 2, Iron Man 3, The Incredible Hulk, Thor, Thor: The Dark World, Thor Ragnarök, Captain America: The First Avenger, Captain America: The Winter Soldier, Captain America: Civil War, Guardians of the Galaxy, Guardians of the Galaxy VOL. 2, Ant-Man, Ant-Man and the Wasp, Doctor Strange, Spider-Man: Homecoming, Spider-Man: Far From Home, Spider-Man: No Way Home, Black Panther, Captain Marvel, Marvel's The Avengers, Avengers: Age of Ultron, Avengers: Infinity War, Avengers: Endgame, Eternals, Shang-Chi and the Legend of the Ten Rings.



Figure 2.1: Avengers: Endgame movie poster

DC Movies: Batman Begins (2005), The Dark Knight (2008), The Dark knight Rises (2012), Man of Steel, Batman v Superman: Dawn of Justice, Suicide Squad, Wonder Woman, Justice League, Aquaman, Shazam, Wonder Woman 1984.



Figure 2.2: Justice League movie poster

Series: Marvel's Agent of Shield, What if...?, Black Lighting, Loki, Hawkeye, WandaVision, Supergirl, The Flash, Moon Knight, The Umbrella Academy, Stranger Things.



Figure 2.3: WandaVision movie poster

Anime: My Hero Academia, Demon Slayer, Jujutsu Kaisen, Attack on Titan, Fullmetal Alchemist Brotherhood, Fairy Tail, Bleach, Naruto, One-piece, Katekyo Hitman Reborn, The Rising of the Shield Hero, That Time I got Reincarnated as a Slime, Sword Art Online, Mushoko Tensei, One Punch Man.



Figure 2.4: My Hero Academia

Manhwa (Korean Comic): The Tower of God, God of High School, Solo Leveling.



Figure 2.5: Solo Leveling

I also watched Bengali movies which includes VFX. As I will be working on this industry after my graduation, I needed to understand in which position our visual effects industry is currently on. I watched Bangladeshi superhero movie Bizli. It was a good attempt from the makers. They did a lot of things right. After watching it you will realize that they tried to make it better but failed in some aspects. The visual effects weren't bad and they color corrected some scenes really well. But there were still some effects which looked out of place and did not match the scene properly. It was a way below the international standard but their efforts were shown. It also inspired us to do our project.



Figure 2.6: Bizli movie poster

CHAPTER 3

DETAILS OF SOFTWARE USED

Through research and brainstorming we get story. After getting the story we plan on how to make then story into a film. By executing the plan on shooting we get the clips we need for the film. After getting all these things we go into our postproduction work where we do all the editing. In this phase all of our ideas and clips come together to form the final film. To make all these visually pleasing visual effects we have to use many different software and plugins. Software are programs which are designed to do specific task. For our film project we needed the software which helped us to create the special effects needed for our superhero short film. We also needed software to color correct all the footage taken from camera. To cut and connect all the different shots taken into a single film. Sometimes what we really need is not present in the basic software so we need to add some extra features. Those extra features come in the form of plugins. These are not a sperate software these plugins get hooked to the main software and gives extra feature to it.

The software's and plugins which helped us to create our final project the way we wanted are mentioned below.

Software:

- Adobe Photoshop
- Adobe After Effects
- Adobe Media Encoder
- Adobe Premier Pro
- Audacity

Plugins:

- Deep Glow
- Heat Distortion
- Optical Flare
- Mocha Ae
- Trapcode Particular
- Red Giant - SuperComp
- Boris Fx Sapphire
- Red Giant Unmult
- Video Copilot - Color Vibrance
- Red Giant Magic Bullet Looks



Figure 3.1: Plugin: Heat Distortion

Explanation of all the software's used are given below.

3.1 Adobe Photoshop: Adobe Photoshop is the first software that we learn after enrolling in this department. This software was in our first semester. From first semester to ending our university life this software was used in various situation. Photoshop is a flexible software with many features. Though its main purpose is digital drawing and photo editing or retouching we have used this software in our project quit a lot. We used this software to remove background of many of our scenes.



Figure 3.2: Background Removed in Photoshop

3.2 Audacity: Audacity is a audio capturing and editing software. This software is pretty simple to use. Even though the software looks old style it has so many features. We have used this software to record our voice over and edit the audio.

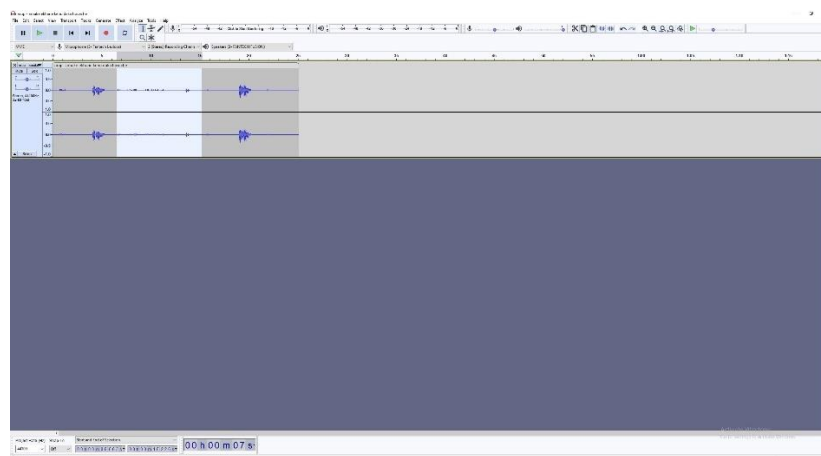


Figure 3.3: Audacity work progress

3.3 Adobe After Effects – Most important software in our project. Our whole visual effects were done using Adobe After Effects. This software is primarily a compositing software but with vast support from the community and ample number of plugins developed for this software it has become one of the giants. Name something and this software can do this in one way or another. For our work the base software did not have everything we wanted but with the external plugins we had everything we needed to make our vision into a reality. We installed all the required plugins and used them accordingly. All the rotoscoping and tracking were done using Adobe After Effects. After doing these the computer-generated visual effects were also built using this software. All the visual effects of superpowers are created using this software. But just making the effects is not enough. To make sure that the effects are we blender with the environment we had to add and adjust so many things. From adding volumetric lighting to dust particles everything to make the scene look realistic was created by this software and its plugins.

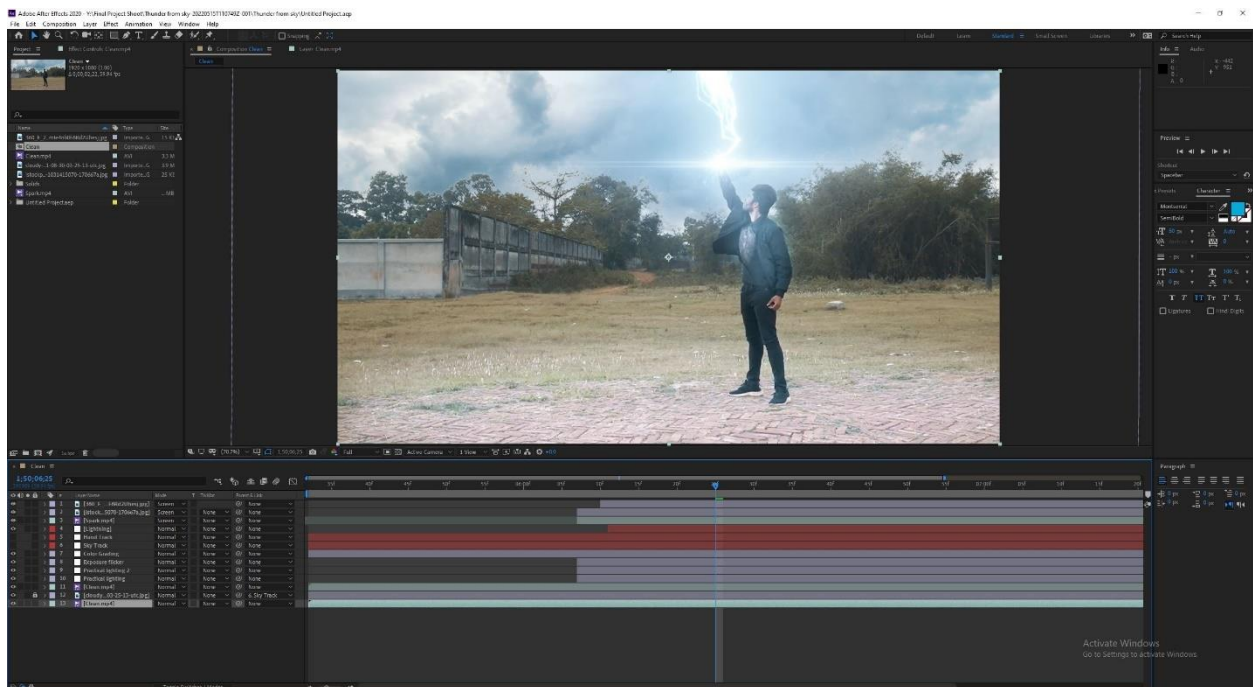


Figure 3.4: Editing in Adobe After Effects

3.4 Adobe Premier Pro: Adobe premiere pro is a powerful video editing software. After getting all the footage we have used this software to rough cut our footage according to need. We also did our color correction using this software with editing hue, saturation, light exposer, color tint etc. We also put our voice over and required sound in the clips using this software.

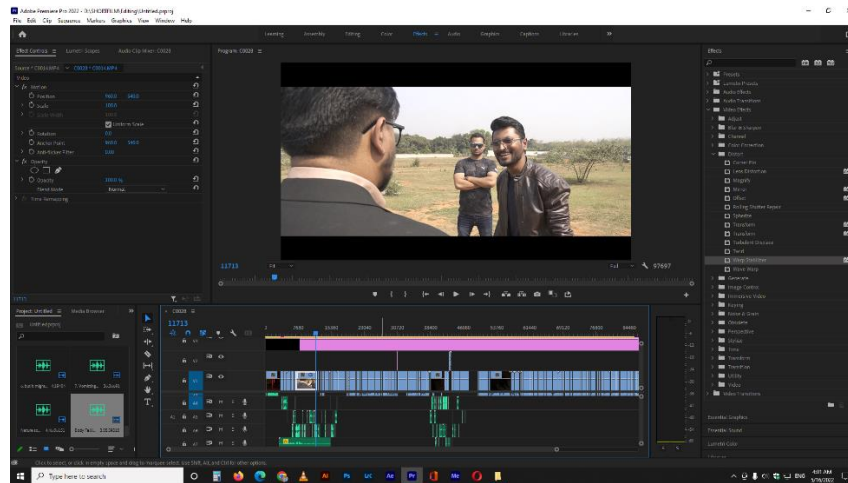


Figure 3.5: Editing in Adobe Premier Pro

3.5 Adobe Media Encoder: Adobe Media encoder is primarily a rendering software. After editing our footage, we need to render it to get the final output in a video format suitable for people to watch. This software helps us to render those edited footage any format we want for usage in every scenario. It also reduce the file size while retaining good quality.

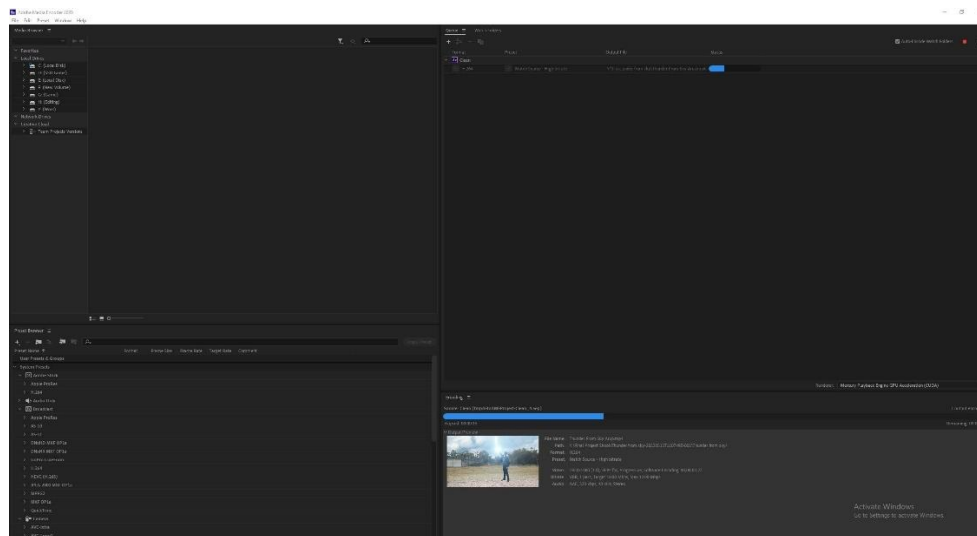


Figure 3.6: Rendering Footage using Adobe Media Encoder

Those were the primary software used during our project. But the base version of the software did not have all the things we needed. So, we used some plugins. Some were internal and some external plugins to get the best output possible. All of the plugins are for Adobe After Effects.

3.6 Mocha Pro: For our project we used Mocha Pro as one of the main plug-ins for Adobe After Effects software. This plugin is a must for any kind of visual effects. Without good tracking and masking doing visual effect is impossible. The specialty of Mocha Pro is fluid tracking and masking. Cutting a character frame by frame for visual effects purpose is called rotoscoping. Most of our VFX scenes had rotoscoping. Even though the default rotoscope as become better after getting updated but Mocha Pro rotoscope is still far better. Tracking is a key factor in VFX. The default tracking has so many flaws. The default tracker can't detect tracking point properly. But on the other hand, Mocha Pro is amazing for tracking. It captures the tracking point pretty well and get the job done easily

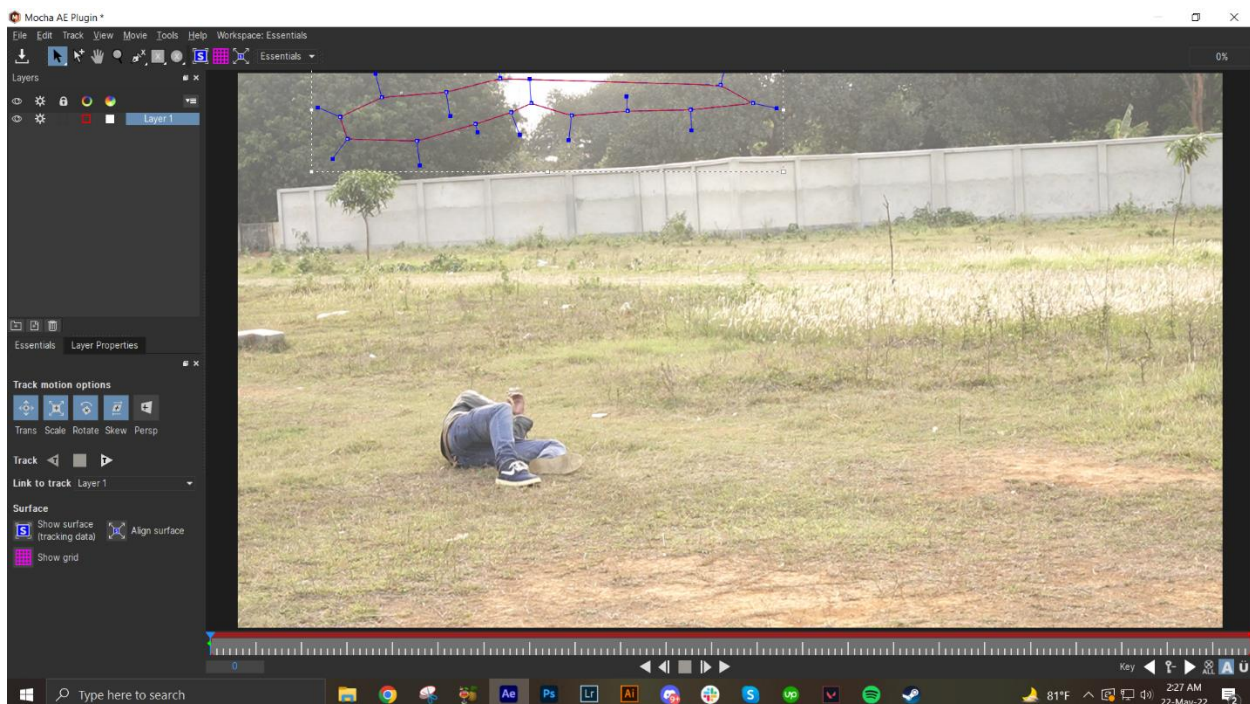


Figure 3.7: Working on Mocha Pro

CHAPTER 4

DEVELOPMENT AND WORKFLOW

4.1 Project Pipeline:

We've made a VFX Short film 'FUTURIANS'. We as a group of three were planning to make a short film since our first year, so we were able to short list everything we need to do for our research for this. We've done several research, we have watched similar films, and have done lots of analysis. All the steps that we followed are given below.

Stages of Production:

In our work, the main stages of productions are:

- Pre-production
- Production
- Post-production

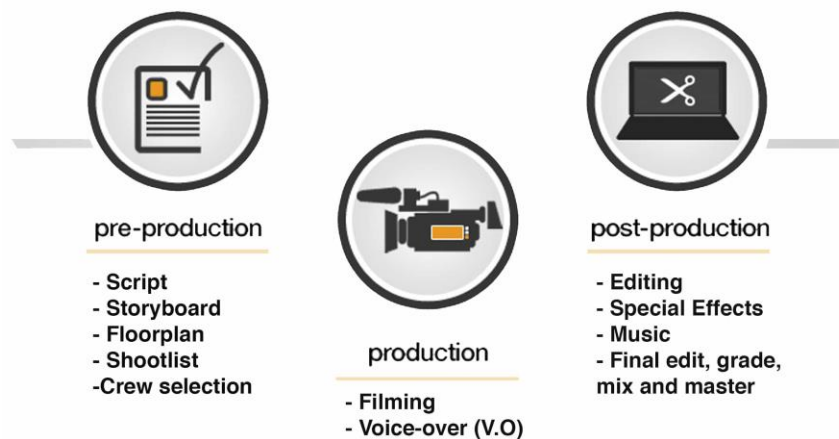


Figure 4.1: Film Making Pipeline

4.2 Pre-Production

4.2.1 Research and Development:

To start any film project, it's very important to work as much as possible in the pre-production stage. In pre-production we had to come up with an interesting concept which can connect the audience so that they continue their discussion after watching the film. And to come up with such an interesting concept, we had to watch at least 20 similar films. We know that VFX short films are mostly imaginary or illusional, but we still had to keep in mind that we cannot bring anything which will be illogical and not following any scientific rules so that the film brings a bit realistic vibe to the audiences.

4.2.2 Story concept:

Shawon killed his own billionaire super villain father out of rage and took over the power. He now wants to take over the world by applying superhuman power inside his body. He knew a mad scientist who have been researching on superhuman power for years. Shawon threatened the scientist to come up with something within 3 months. The scientist tried his best to come up with a serum which can give inhuman abilities. After failing 2 subjects, scientist went to a witch for help. The witch has been helping the scientist for years in this kind of experiments, so she agreed to help him in condition to let her try the serum as well. After failing again, the scientist became frustrated and escaped from his home. One day, his first experiment suddenly came back and he was glitching. Scientist realized that the others might be alive as well, so he took the subject to lab for extended research. While testing, the witch returned and wanted to help the scientist. Meanwhile, Shawon was approaching the lab with anger to kill the scientist. Since the scientist was informed through a phone call, he escaped the lab and went to a safer facility for them to practice their power. The other subject also returned to the facility. As Shawon could not find the

scientist, he became mad, but he somehow found out the serum left on a desk. He applied the serum on his body and became powerful. He started destroying the city. The scientist told his subjects to go and protect the innocents. The Futurians fought very hard and after several tries, they successfully defeated the villain.

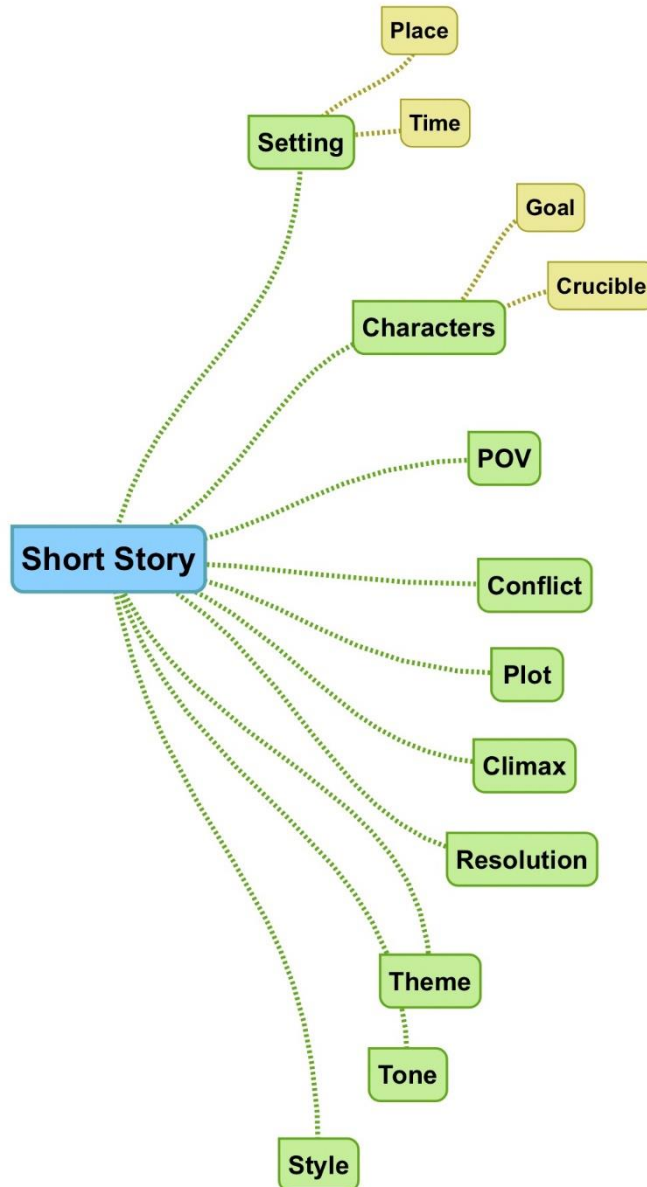


Figure 4.2: Story Concept Mapping

4.2.3_Screenplay:

Every film/short film starts with a screenplay where all the camera angles, expressions, dialogues, shot division, location etc. everything is explained and written in detail. We have written our screenplay professionally so that while shooting everything feels easy for us.

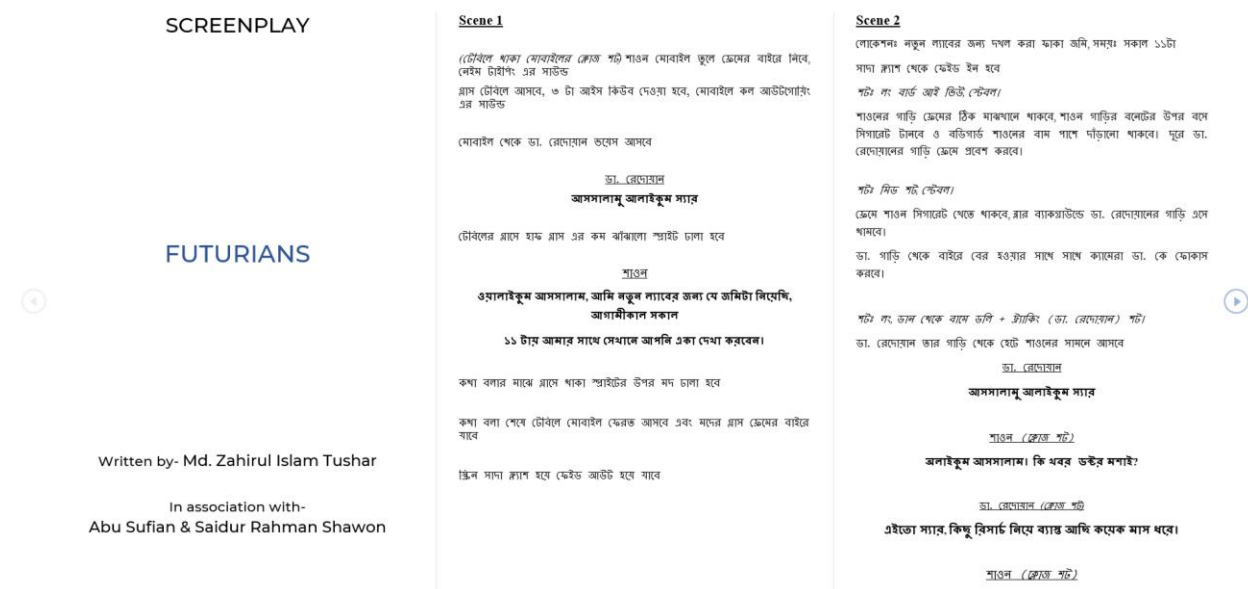


Figure 4.3: Screenplay (Page: 1-3)

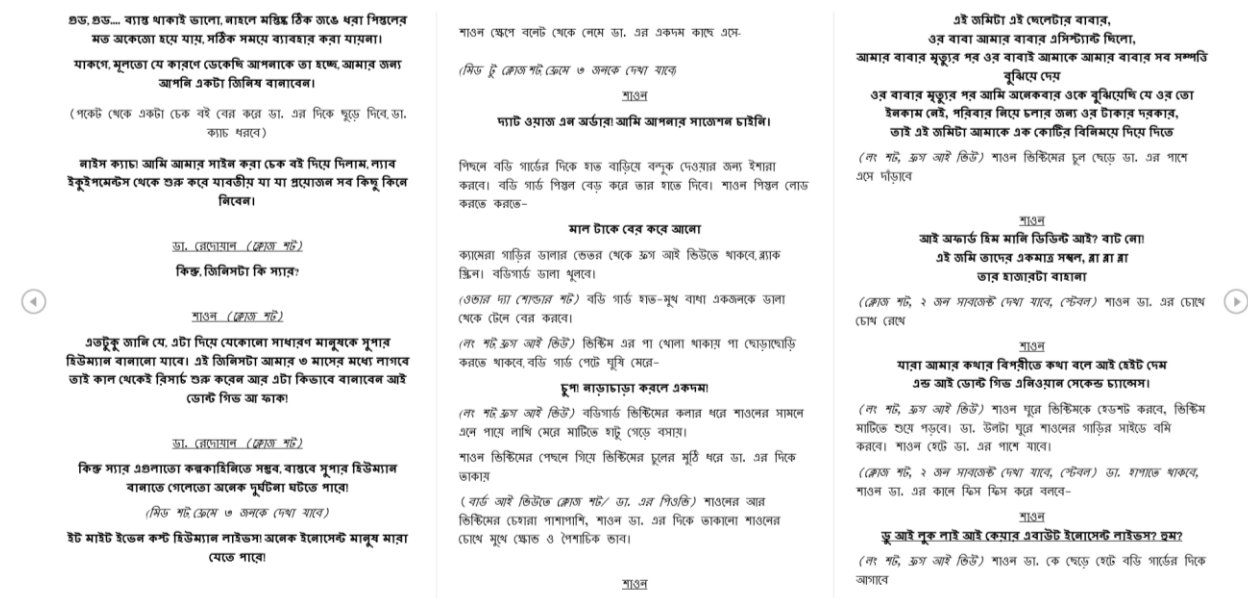


Figure 4.4: Screenplay (Page: 4-6)

ডা. রেদওয়ান
আই নিত ইউ টু ওয়ার্ক অর দিন
 রান করা সিরাস থেকে ডামারাকে ফোকাস হবে
 ডামারা
ডাট শাইক ওন্ড টাইমস, হাফ?
 ডা. রেদওয়ান *(হেস্ট শট)*
ইয়াহ, বাট দিন টাইম আই নিত বেটার বেজান্ট
 ডামারা *(হেস্ট শট)*
ওয়াজ দ্যাট এন ইম্পান্ট ডা.?
আপনি আমার চেয়েও বেটার বেজান্ট চাচ্ছেন?
 ওকে হাইন। বাট ইফ আই সাকসিভ, আই উইল টেস্ট ইট মাই সেলফ
ফান্ট
 ডা. রেদওয়ান *(হেস্ট শট)*
ইফ আই সেট ইউ, ইউ মাইট ডাই
 ডামারা *(ওসাইড শট পুরো রুম দেখা যাবে)*
আই ক্যান্ড নিত দিন ডার্ক রুম বিকজ হোয়াট ইউ ডিড টু মি
আর কিভাবে মনবো?
 ডা. রেদওয়ান *(হেস্ট শট)*
আম্বা, যা মন চায় করো বাট ডোন্ট গ্রেইম মে ইফ এরিথিং রুও হ্যাপেন
(নঃ শট) ডা. রেদওয়ান চেয়ার থেকে উঠে রুম থেকে বের হয়ে যাবে।
 || কিছুদিন পর ||

Scene 6
 লোকেশন: ডা. রেদওয়ান এর এপার্টমেন্ট, সকাল
 ক্যামেরা মাটিতে থাকবে, সিন্ফট এর দরজার ফ্রেজ শট। সিন্ফটের দরজা
 খুলে কালো ফিল্মে ব্লু হেট বের হয়ে সামনে আসবে, ক্যামেরা জুড়ার
 সাথে সাথে পিছনের দিকে মুক্ত করবে
 দরজার সামনে এসে জুড়া খেমে মাটিতে একটা বক্স রেখে কলিংবেল দিয়ে
 চলে যাবে *(বক্স ফোকাস থাকবে)*
 দরজা খোলার শব্দ শোনা যাবে, দুইটা হাত বক্স ধরে উপরে উঠাবে,
 ক্যামেরা বক্সকে ট্র্যাক করে উপরে উঠবে, ডা. রেদওয়ান কেজুয়াল ডেসে
 ডেসে আসবে, উনি একটু মিচলিভ হয়ে আশেপাশে ভাবিয়ে পরজা নিয়ে ঘরে
 ঢুকে যাবে
(নিত শট) ডা. রেদওয়ান বক্স নিয়ে এসে ডাইনিং টেবিলে রাখবে, খুঁড়ি
নিয়ে এসে স্ফটেশ কেটে ভেতর থেকে একটা চিরকুট বের করবে
 ডা. রেদওয়ান এর পিওভি চিরকুটের লেখা-
হ্যালো বেদওয়ান,
আপনার দেওয়া কাজ শেষ।
আপনার বাসা থেকে কেনের যাওয়ার পথে আমি আমার অংশটুকু ইলেক্ট
করবো, তাই আমার কিছু হওয়ার আগেই আপনাকে আপনার অংশটুকু
দিয়ে গেলাম। বেচে থাকলে আবার দেখা হবে, নাহলে আশুবিদ্য।
বেই অফ লাক ফর ইয়ার প্রোজেক্ট।
(বক্সের পিওভি) ডা. রেদওয়ান চিরকুটটা ভাজ করে বলবে "সিন ওমেন লেকচার
লিডেন" পকেটে রেখে বক্সের দিকে ভাবাবে, এক সেকেন্ড চিন্তা করে বক্সের
দিকে হাত বাড়িয়ে বক্সের চাকনা বন্ধ করে দিয়ে
 ব্র্যাক স্ক্রিন

Scene 6
(ডা. রেদওয়ান এর চেয়ার, বক্সের পিওভি)
 ব্র্যাক স্ক্রিন
 ডা. রেদওয়ান বক্স খুলে বক্সের ভেতরে ভাবিয়ে হাত নিতে গিয়ে এমন
 সময় নার্স এসে বলবে-
 ব্রাঞ্জ
স্যার, ডামারা ম্যাম এর গাড়ি বিচ্ছবোর হয়েছে কিছুক্ষন আগে
(নার্সের ওজার দ্যা শোডার শট) ডা. রেদওয়ান চিষ্টার রিটকশন দিয়ে
(নিত শট) ডা. রেদওয়ান
ভূমি যাও, আমি আসছি।
(ওসাইড শট) নার্স রুমের দরজা থেকে চলে যাবে, ডা. রেদওয়ান টেবিলে
হাত দিয়ে বাড়ি দিয়ে রিটক্ট করবে। ডা. রেদওয়ান উঠে বক্সটা বন্ধ
করে রুমের একটা সাইডে রেখে যাবে।
 বক্সের ফ্রেজ শট, রো মুম ইন হতে হতে অন্য দিলে চলে যাবে।

Figure 4.7: Screenplay (Page: 13-15)

Scene 7
 লোকেশন: শাওনের বাবার বাসা
(ক্রস আই ভিউ) শাওন এসে ডেসে দাঁড়াবে, হাতে মদের গ্লাস।
(শাওনের ওজার দ্যা শোডার শট) একটা ছোট ঘবির ডেসে শাওন ও
শাওনের বাবা দাঁড়ালে, শাওনের বাবা মুট পড়া গবীর লুক দাঁড়ালে
আর পাপে শাওন ভয়ে কাঁচুমাচু হয়ে সাধারণ কপড় গড়ে দাঁড়ালে।
 সিন সাদাকালো হয়ে যাবে, কিছুটা ডার্ক ইনজারোমেন্ট
 টেবিলের উপর মদের বোতাল ফোকাস করা, শাওনের বাবা শাওনকে
 ডাকবে। রান ব্যাকগ্রাউন্ডে শাওন এসে দরজার কোণায় দাঁড়ালে ওকে বলবে
 গ্লাসে ৩ টা বরফ দিয়ে আসতে। শাওন চলে যাবে, একটু পর গ্লাস ভাঙ্গার
 শব্দ আসবে পাপের রুম থেকে।
(ক্রস আই ভিউ, স্টেবল শট) শাওনের গ্লাস এর ভাসা অংশ টেকাতে
থাকবে, ক্যামেরার সামনে একটা কালো ছায়া এসে দাঁড়াবে (শাওন রান
হয়ে গা ফোকাস আসবে) আর হাত থেকে বেস্ট মিডের দিকে ঝুলে আসবে।
 ব্র্যাক স্ক্রিন
 প্রথমে শুধু চাকু মারার শব্দ কয়েকবার, এরপর চাকু ও রক্ত খিটার
 শব্দ হবে কয়েকবার, এরপর ধব্বাধব্বি ও পোসালার শব্দ, এরপর গুলির
 শব্দ।

(ক্রস আই ভিউ) ব্র্যাক থেকে ফেইড ইন হবে, শাওন মুখ থেকে গ্লাস
মাটিয়ে এক সেকেন্ড ক্যামেরার দিকে ভাবিয়ে থাকবে এরপর ডেস থেকে
বের হয়ে যাবে।
(নিত শট, ক্যামেরা শাওনকে ট্র্যাক করে পিছনের দিকে যাবে) শাওন খুলে
ক্যামেরা দিকে হাটতে হাটতে মোবাইল বের করে কল দেওয়ার চান করে
কানে মোবাইল ধরবে
(নিত শট) ডা. রেদওয়ান এর সামনে মদের গ্লাস থাকবে, মোবাইলের
দিকে ভাবিয়ে কল দেখবে
(নিত শট) শাওন কানে মোবাইল দিয়ে দরজা খুলে বের হয়ে, দরজা
মাটিয়ে সিঁড়ি দিয়ে নামা শুরু করবে, দরজার বাইরে দাঁড়ালে বডি গার্ডরা
শাওনকে ফলো করে সিঁড়ি দিয়ে নামবে
(নিত শট) ডা. রেদওয়ান কল কেটে দিয়ে মদ ধাবে
(নিত শট) শাওন মোবাইল পকেটে ঢুকাবে, সিঁড়ি থেকে বের হয়ে ক্যামেরা
খুলে শাওনের পিছনে ফলো করবে গাড়িতে ওঠা পর্যন্ত
 শাওনের গাড়ি টান দিয়ে ডেস থেকে বের হয়ে যাবে
(নঃ শট জুম অউট হতে থাকবে) ডা. রেদওয়ান মন খারাপ করে মুখে
 হাত দিয়ে বসে থাকবে

Figure 4.8: Screenplay (Page: 16-17)

Scene 8

ডা. রেদওয়ান বাসায় প্রবেশ করতে দরজা খুলতেই দেখবে ড্রয়িং রুমে তার খেল কমা বে প্রথম এক্সপেরিমেন্টের সময় মারা গিয়েছিলো। ডা. রেদওয়ান এর হাত থেকে তিনিসপত্র পড়ে যাবে।

ডা. রেদওয়ান ওর কাছে গিয়ে বলবে

ডা. রেদওয়ান
ইউ আর এলাইভ? এতদিন কোথায় ছিলি?

সাহেম
হোয়াট ডিড ইউ ডু টু মি? আমি এখানে কিভাবে আসছি আমি নিজেও জানিনা! মনে হচ্ছেনো দুঃসপ্নের মত সব কিছু ধংস হতে দেখছিলাম!

ডা. রেদওয়ান
তোমার শরীর ঠিক আছে তো?

সাহেম
আই ফিল ডিফারেন্ট! ছোটবেলা থেকে এভাবে এক্সপেরিমেন্ট করেছে আমার উপর, আমি কোনদিন এরকম ফিল করিনি!

ডা. রেদওয়ান
তুই বেচে আছিস তার মানে বাকিরাও বেচে আছে!

সাহেম
বাকিরা মানে? আমার মত আরো আছে?

ডা. রেদওয়ান
তারা তোমার মত কিনা আমি জানিনা, তাদের পুতে বের করা লাগবে!

ডা. রেদওয়ান এর বাসায় কলিং বেল বাজবে, দরজা খুলে দেখবে ডামায়া দাঁড়িয়ে আছে

ডা. রেদওয়ান
ওহ মাই গড! আই ওয়াজ জাস্ট থিংকিং এবাউট ইউ

ডামায়া
হাহায়া ভেবেছো আমি মরে গেছি? বাট হিয়ার আই এম! ডিভরে আসতে পারি?

ডা. রেদওয়ান
ওহ সবি সবি! মেইক ইউর সেলফ কন্ফার্টেবল

ডামায়া
আবেহ এটা সায়েম নাহ? ইজ হি সিক?

ডা. রেদওয়ান
মলে হতে ডাই

ডামায়া
মিজ ডোন্ট টেন মি ইউ এলাইভ ড্যাট অর হিমা

ডা. রেদওয়ান চুল করে দাঁড়িয়ে থাকবে মাথা নিচু করে

ডামায়া
হ্যাট ইউ বিকাম ইমসেইব রেদওয়ান?

ডা. রেদওয়ান কিছুক্ষণ চুপ থাকবে

ডা. রেদওয়ান
কাম অন, উই হ্যাভ ওয়ার্ক টু ডু

Scene 9

ডা. রেদওয়ান একটা মোবাইল অবজেক্ট আকাশে ২০ ডিগ্রি এঙ্গেলে শট করবে, অবজেক্টটা আকাশে উঠে (শেয়ার ভিতর শো করবে) চুৎকার মত টান খেয়ে কিছুটা পূরে গিয়ে পড়বে (হাঙ্গা বিফোরল হবে)।

ডা. রেদওয়ান ইমতিয়াজকে খুজতে বের হবে, কিছুক্ষণ খুজলে না পেয়ে চলে যাওয়ার সময় হঠাৎ ডা. রেদওয়ানকে কিছু একটা ধাক্কা দিয়ে ফেলে দিয়ে চলে যাবে (ইলেকট্রিক শো আসবে) ডা. রেদওয়ান উঠে দাড়ালে শিলে আবার এসে ধাক্কা দিয়ে চলে যাবে। এরপর ডা. দুই হাত ভুলে উঠতে উঠতে বলবে-

ইমতিয়াজ, আই বো ইউ আর এসরি অর মি এন্ড আই এম সবি।
আমি সব কিছু সত্যাবিক করতে পারবো।

মিজ কাম টু দিস এড্রস হযের ইউ ফিল ইউ মিজ মেহ।

আর ময়ে কয়ে আপাতত পরিবারের কারো সাথে দেখা করো না।

এটা বলে একটা চিরকুট মাটিতে রেখে চলে যাবে।

ইমতিয়াজ নেটরটা উঠাবে (গ্রেড শট)

Figure 4.9: Screenplay (Page: 18-20)

Scene 10

(ওয়াইড শট) ডা. রেদওয়ান ডামায়া ও সায়েমকে নিয়ে একটা আড্ডার কম্পট্রাকশন সাইট চুকবে তাদের এবিপিটি চেক করার জন্য

(ইমতিয়াজের কাট সিন আসবে) ইমতিয়াজ অফিসের দিকে ডাকলো, হাত থেকে ইলেক্ট্রিসিটি শো করতে থাকবে।

ডা. দুইজন কে ইমট্রাকশন দেওয়ার কাট সিন

ভাদের প্রাক্টিসের মাঝে ইমতিয়াজ চুকবে। ডা. রেদওয়ান জওয়ালের সাথে মবার পরিচয় করিয়ে দিয়ে।

প্রাক্টিসে দেখা যাবে যে তারা সবাই ভাদের এবিপিটি বুঝার চেষ্টায় আছে, কয়েকবার ভেইল হওয়ার পর আস্তে আস্তে এবিপিটি আসবে। কিছু সায়েম ভীর এবিপিটি কোলোক্তাবেই খুজে পান্বেনা, কোনো কাজে আসবেনা ডাই চুপ করে রুমের এক কোণায় বসে বসে থাকিদের কাজ দেখবে।

Scene 11

(সিড শট, শো জুম আউট হতে থাকবে) শাওন জোরে ডা. রেদওয়ান এর চেয়ারের দরজা খুলবে

(ওয়াইড শট) শাওন বডিগার্ড নিয়ে রুমে প্রবেশ করবে, আস্তে আস্তে চেয়ার পর রায়ে কিছু একটা টিল দিয়ে, সেটা গড়িয়ে দিয়ে ডা. রেদওয়ান এর রাখা বস্তুর কাছে যাবে।

(বস্কের সিওডি) শাওন এসে কৌতূহল নিয়ে বস্কাটা দেখবে, বস্ক খুলে সিরাম বের করে একটা হাসি দিয়ে।

(নে শট) শাওন ভাড়াহড়া করে কোট খুলে চেয়ারে বসে বডিগার্ডকে বলবে সিরাম ওর বডিভে পুশ করতে

(বার্ড আই ভিউ, শাওনের ক্রোজ শট) শাওন মুচকি ভেসে চোখ বন্ধ করবে, ইমকশন পুশ করার সময় কিছুটা ব্যাথা অনুভব করার এক্সপ্রেশন দিয়ে।

কয়েক সেকেন্ড পর শাওন ভীর ব্যাথায় হাত চেপে ধরে খটখট শুরু করবে, (নে শট) চেয়ার থেকে পড়ে শুরুর কাঁরাজে থাকবে। বডিগার্ড ম্যার ম্যার বলে ধরতে আসবে, বন্ধন দেখবে অবস্থা ভালোনা তখন মিজের ব্যাচার জন্য রুম থেকে বের হয়ে যাবে।

(বডিগার্ডের ক্রোজ ট্র্যাকিং শট) বডি গার্ড ভাড়াহড়া হটা শুরু করবে পনিভে

(নে শট) বডি গার্ড পিছনের কাছাকাছি এসে পড়বে এমন সময় শাওন তার সামনে হাজির হবে।

(শাওনের কিড শট)

শাওন
গোমিং সাম হোয়ার?

(নে শট) বডিগার্ড শাওনকে এটাক করবে, শাওন বডিগার্ডকে মেরে ফেলবে এবং শাওন ফ্রম থেকে গায়েব হয়ে যাবে।

Figure 4.10: Screenplay (Page: 21-22)

Scene 12

দিউজে দেখাবে শাওন শহর ধংস করছে, শহর ধংসের ড্রোন শট (হেলিকপ্টার) দেখানো হবে যেখানে শাওন একটা শক ওয়েভ দিয়ে সব সিগনাল ধংস করে আর হেলিকপ্টার এর ক্যামেরা বন্ধ হয়ে যাবে।

(নং শট) ডা. রেনওয়াল টিভির রিসোর্সে রেখে ডামালা আর ইমতিয়াজকে বলবে

ডা. রেনওয়াল

ডামালা, ইমতিয়াজ পেরে বেড়াই ইউ গাইস হাব টু সেইড দ্যা কান্ট্রি

ডামালা আর ইমতিয়াজ উঠে দাঁড়াবে, ডামালা বলবে-

ডামালা

ও যাবেনা আমাদের সাথে?

ডা. রেনওয়াল

নাহ, হি ডাড নট হাব এনি পাওয়ার লাইক ইউ সো হি ইজ স্টেমিং উইথ মি।

ইমতিয়াজ লেটন গো বলে বের হয়ে যাবে ডামালাকে নিয়ে, সায়েম বিরক্ত হবে। ডা. রেনওয়াল দরজা লাগালোর পর-

সায়েম

মিথ্যা বললেব কেনো ওদের?

ডা. রেনওয়াল

ইউ আর স্পেশাল, আই ক্যান্ট নুজ ইউ লাইক আদারস

সায়েম ছেলে গিয়ে নিজের অজান্তে জোড়ে শক ওয়েভ দিয়ে, শক ওয়েভে ডা. রেনওয়াল মারা যাবে। সায়েম কিছুকন তার পাওয়ার এ অফক হব পাউন্ড থেকে দেশ বাচাতে রওনা দিবে।

Scene 13

(ক্রস আই ভিউ) শাওন উড়ন্ত অবস্থায় শহর ধংস করতে থাকবে।

(বার্ড আই ভিউ) ডামালা এসে উপায় পাওয়ার মেরে শাওনকে নিচে ফেলবে, ইমতিয়াজ হাই স্পিডে শাওনকে নিয়ে শহর থেকে দূরে ফাকা বায়ুগায় চলে যাবে।

সায়েমের স্মিচ পেয়ে বায়ুগা পরিবর্তনের কাট সিন

ডামালা ও ইমতিয়াজের কিছু ফাইট সিন থাকবে স্টোরিবোর্ড অনুযায়ী

সায়েম এসে পৌঁছাবে এবং দেখবে ডামালা ও ইমতিয়াজ ইকুর্ড হয়ে পড়ে আছে।

সায়েমের ফাইটিং সিন আসবে স্টোরিবোর্ড অনুযায়ী

কিছুকনপর ভিনজন মিলে ফাইট করবে, সায়েম টাইম ট্রিজ করে শাওনের মাথায় শকওয়েভ মেরে শাওনকে মেরে ফেলবে।

After few months

Sayem will realize that he accidently dragged all the powers from the villain's body while killing him and now he has more power than his mates. He starts to feel greed of power. So, he killed both his mates and starts his journey with lighting speed to become the most powerful villain of all time.

One day while he was running with his lightning speed, Dr. Redwan spots him and says, "You're too slow!"

Figure 4.11: Screenplay (Page: 23-24)

4.2.4 Budget and cost cutting:

After completing research and concept development, we had to finalize our total budget for the short film. And for that we had to keep few things in mind, which are-

1. Lighting and other gears
2. Transportation
3. Food and beverages
4. Props and costumes
5. Additional rents
6. Backup for emergency

Considering all the things from the above list we fixed a budget which we contributed by dividing into three as we are a group of three members. We tried to cost cut from few of the things which we could manage ourselves like- lighting and gears, Costumes, shooting spots, green screen, casting cars etc. This helped us a lot to complete the shooting very efficiently.

4.2.5 Location scouting:

Location scouting basically means search and matching perfect locations with the screenplay for filming. This is also one of the most important parts of pre-production stage. Shooting in different location helps to make the film dramatic, because if the whole film is shot in only one or two location the audience might feel bored and lose interest in watching the whole film. To match the perfect locations, we had to visit many areas. For some scene we even had to choose locations really far from our home.



Figure 4.12: Shooting in underground



Figure 4.13: Shooting outdoor



Figure 4.14: Shooting indoor



Figure 4.15: Shooting outdoor



Figure 4.16: Shooting indoor

4.2.6 Props and costumes

Since our short film is based on superheroes and specially it has VFX, props and costumes were important to make the casts more lucrative. We had to choose the perfect costume for each cast which will represent their character according to the screenplay. Choosing the right color for the costumes was also another important task. For example, throughout the film we will see the doctor was wearing something dark on top or inside but at the end of our film we will see that the doctor was wearing only white dress and the superheroes were wearing black dress. Here the dark dresses represent bad impact on the characters and changing the cloth to a lighter color represents peaceful character.



Figure 4.17: Witch props

4.3 Production:

LIGHTS! CAMERA! ACTION! Every person who knows about filming, heard these words at least once in their life. Production stage is basically where all the shooting and shooting related works are done. Setting up lights, preparing the casts with dialogues and proper outfit, recording the footages according to the screenplay, checking the footages and retaking all of these are part of production. While shooting, the most crucial role is played by the Director of the film. Everyone from the team has to follow the instructions provided by the director. Production manager also plays an important role by making sure everything required for the shooting is managed perfectly. Without a production manager, a director will face huge pressure and will not be able to complete the production within a short time.



Figure 4.18: Shooting outdoor



Figure 4.19: Shooting outdoor



Figure 4.20: Shooting outdoor



Figure 4.21: Shooting outdoor



Figure 4.22: Shooting outdoor

4.4 Post-Production:

Post-production is the very last stage before finalizing any film/video. Here an editor compiles and edit the clips as necessary. Cutting, sound designing, color grading, visual effects etc. are done in post-production view stage. Our editor is working professionally with visual effects for a long time.

To make the full film by adding all the different shorts taken from camera we have used Adobe Premier Pro. This software is really good for this purpose. We have worked with many clips. Cutting and adding clips according to script was a breeze thanks to this software. The user interface is user friendly and everything presented in a good way. We also did color grading of our normal footages without special effects using this software.

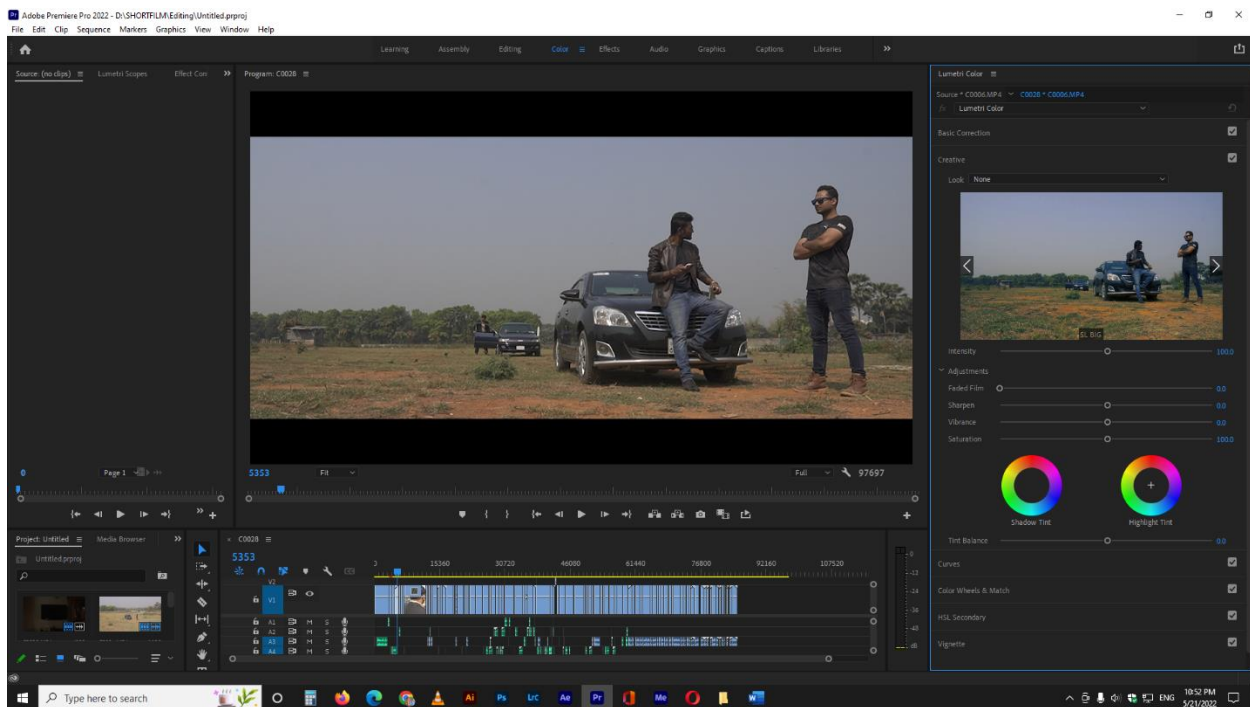


Figure 4.23: Color grading

We have recorded all the voice over in our studio setup using Audacity Software. Audacity is a great software for audio recording and editing. The software is free and pretty light. Even though the interface looks pretty old by today's standard, the features are impressive. Noise Reduction works perfectly. Having noise in video is one of the works' nightmares. Because the audience will get pissed if the audio is not clear. Background noise will make it irritating. They will not be able to enjoy the film properly. That's why we have removed even the slight bit of noise from our audio. We can even change the audio frequency and ups and downs. Sound leveling is also important to level the audio of all the dialogue. The dialogue volume varies depending on the situation. Normal conversation the sound will be normal but when someone is shouting or screaming the audio level will be higher. But no matter what those audio levels should be in a tolerable level. We edited all our audio to that tolerable audio level.

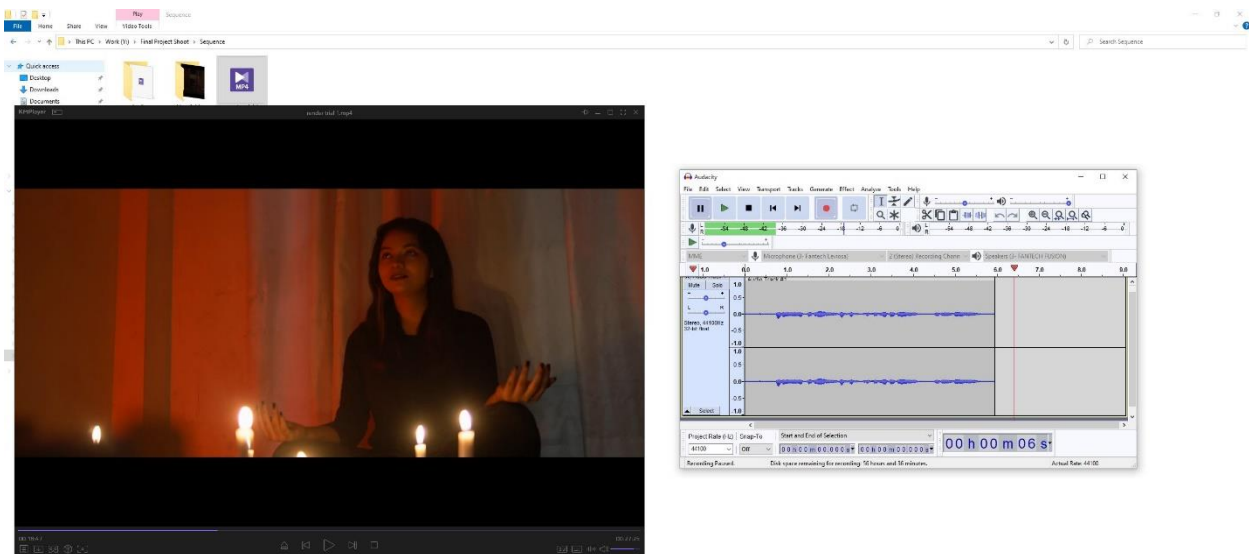


Figure 4.24: Recording Voice using Audacity

Just by adding footage and making the scenario is not enough because without proper sound the film will not be complete. Sound gives another depth to a footage. In order to make the scene more realistic we need proper sound. Just imagine there's a serious scene but there's funny background music. That scene will not be serious anymore. Having appropriate sound for every scenario is important. That's why we have put special attention into making our sound realistic and appropriate to the scenes. Not just background music the sound of a door opening should be exactly like its in real life. If it doesn't sound like the real-world people will not get attached to it. After getting all the voice over and appropriate sound of every situation we did added all the sound according to the scenes using Adobe Premier Pro.

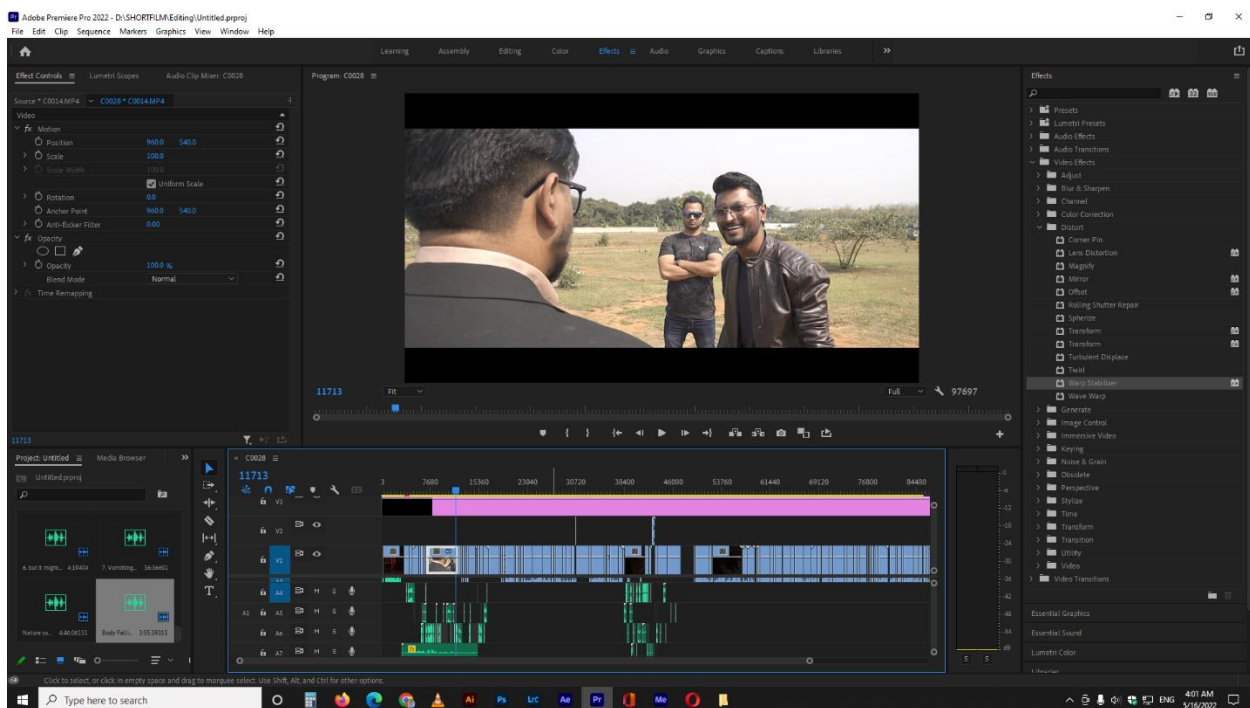


Figure 4.25: Clipping and Sound Designing

The main part of our short film is the visual effect's part. As our short film is based around superpowers visual effects are the most essential part. Without proper visual effect the superpowers will not feel realistic and it will be mess. This is the reason we have put special attention to visual effects. The more time we put on visual effect the better it will be. With the limited time we had we have put every single second to get the best visual effects possible. If the visual effects are not matching properly with the environment, then it will look out of place and the scene won't be pleasing. Audience will notice it immediately and they will not like it. That's why we have created all the visual effects according to our characters power and script. Our editor did an amazing job. The visual effects look amazing. The color correction according to power usage and environment is fabulous too. Following the proper workflow of visual effect is the key to get a good VFX scene. There are many steps to follow in a VFX workflow to get the desired output. We have used Adobe After Effect and many plugins of Adobe After Effect to do our visual effects. Full workflow of a visual effect scene is given below.

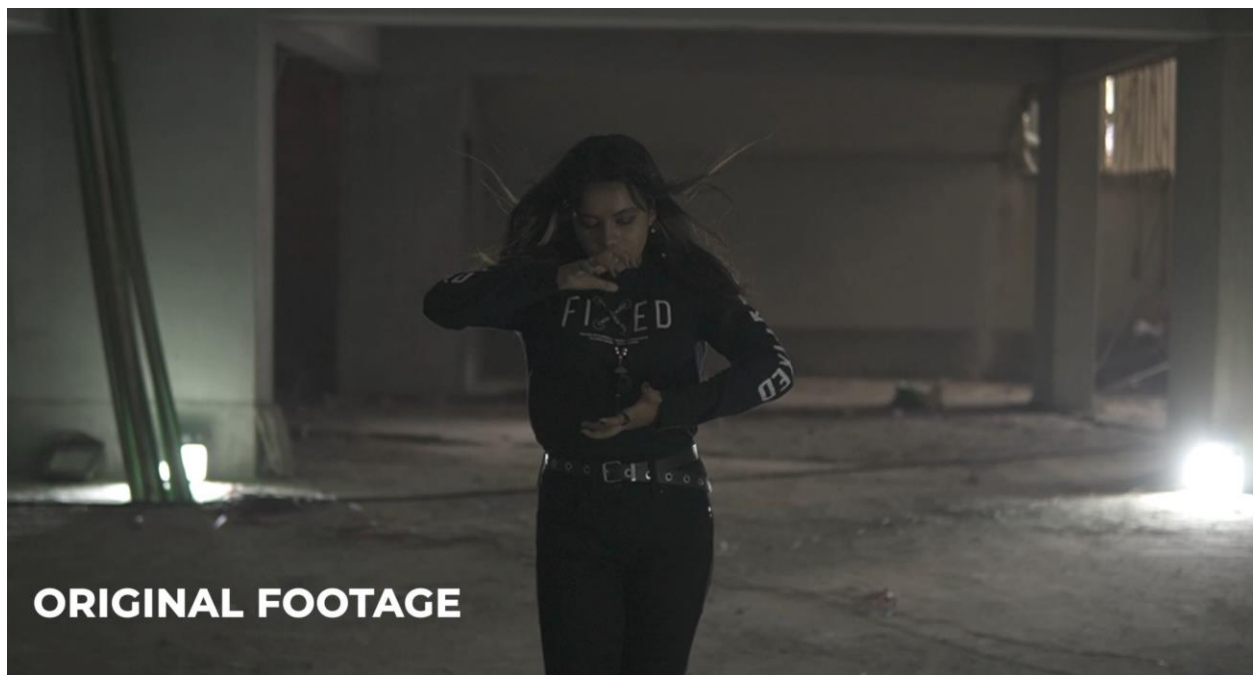


Figure 4.26: Original Footage

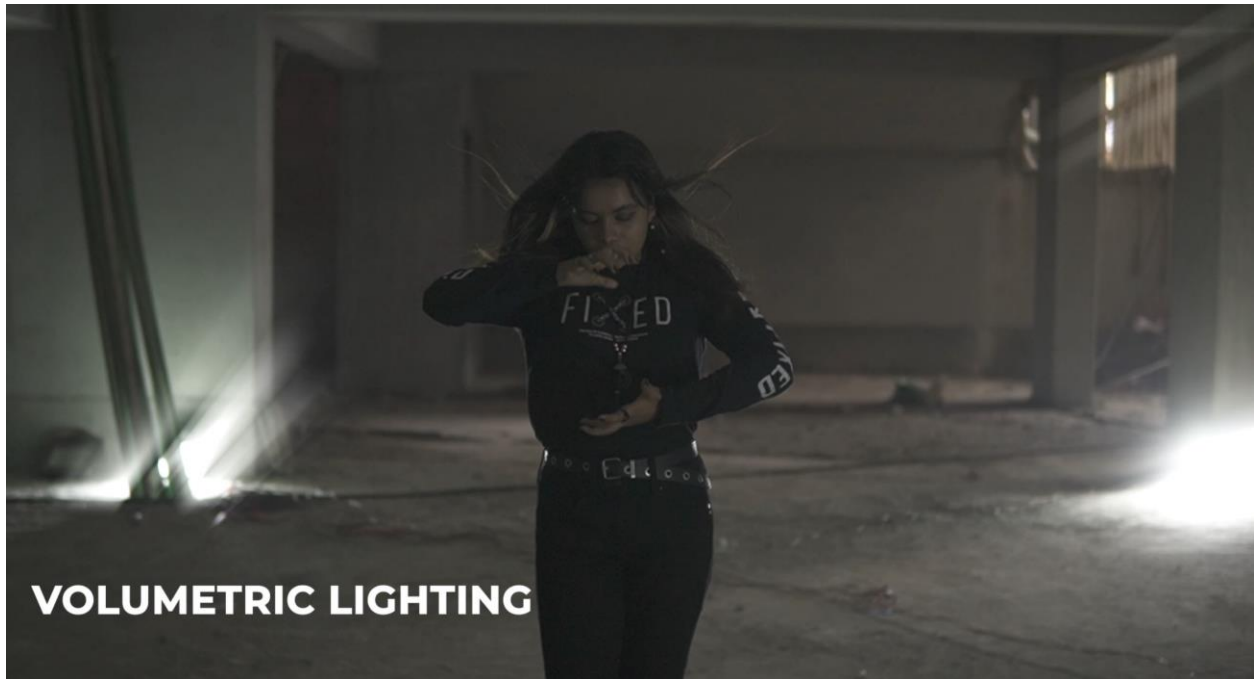


Figure 4.27: Volumetric Lighting

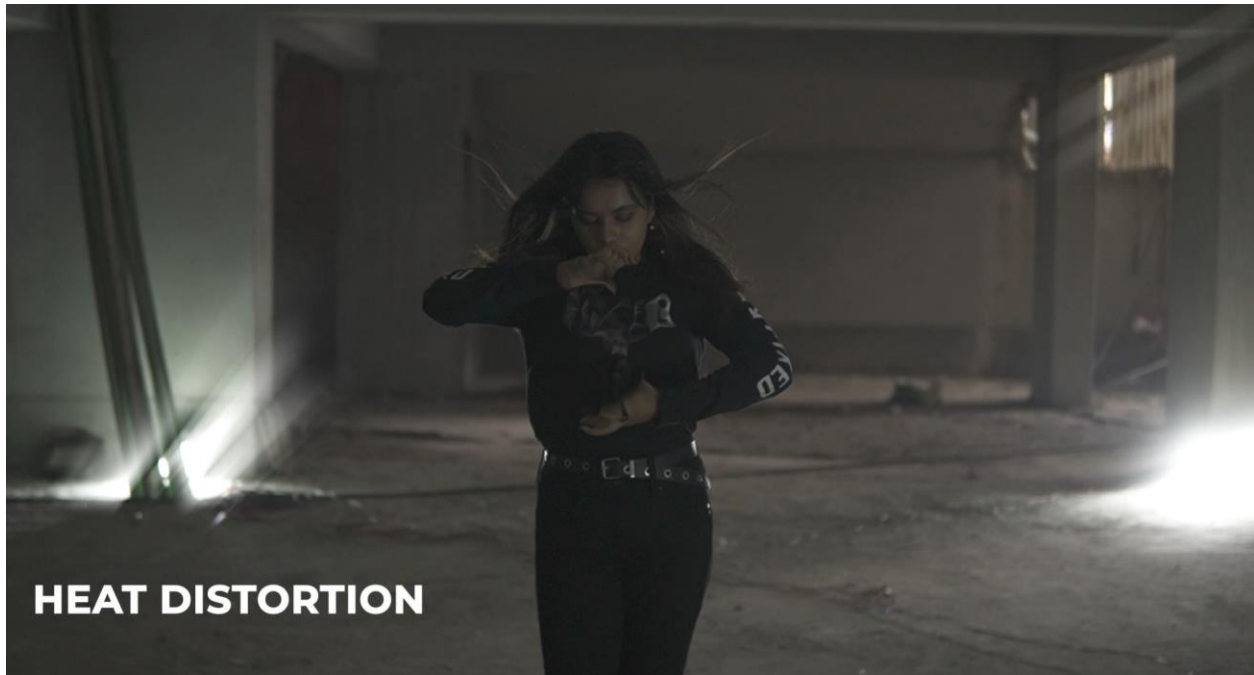


Figure 4.28: Heat Distortion

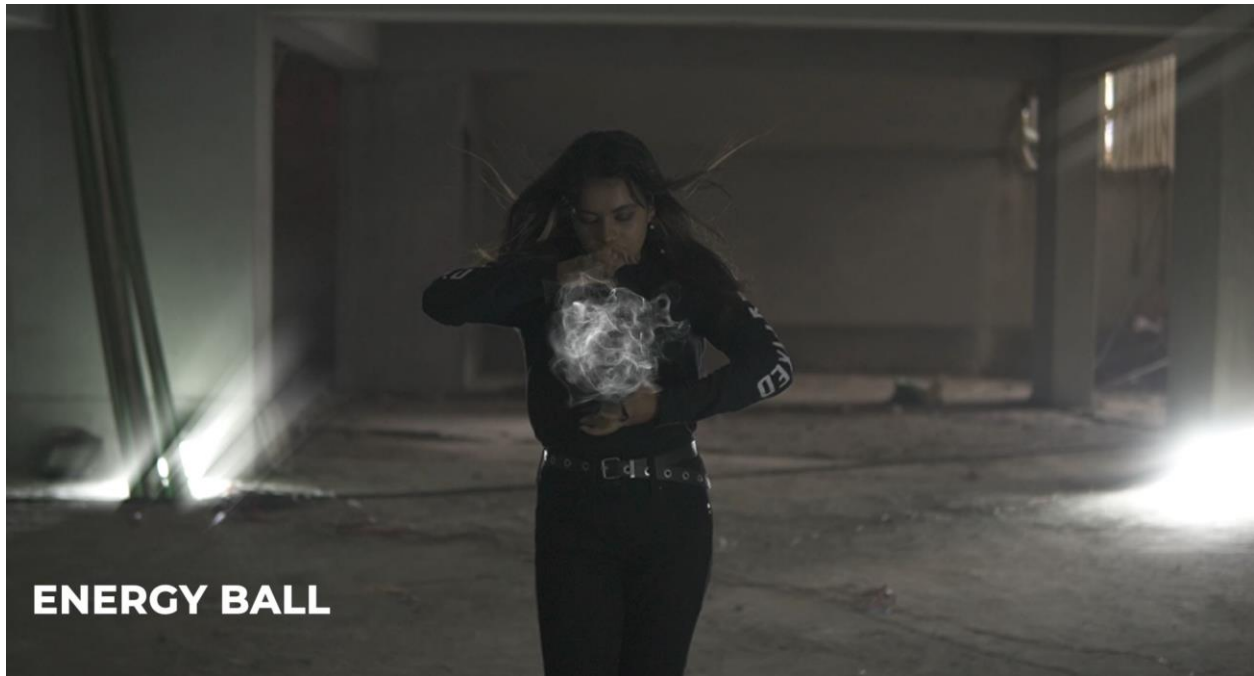


Figure 4.29: Energy Ball

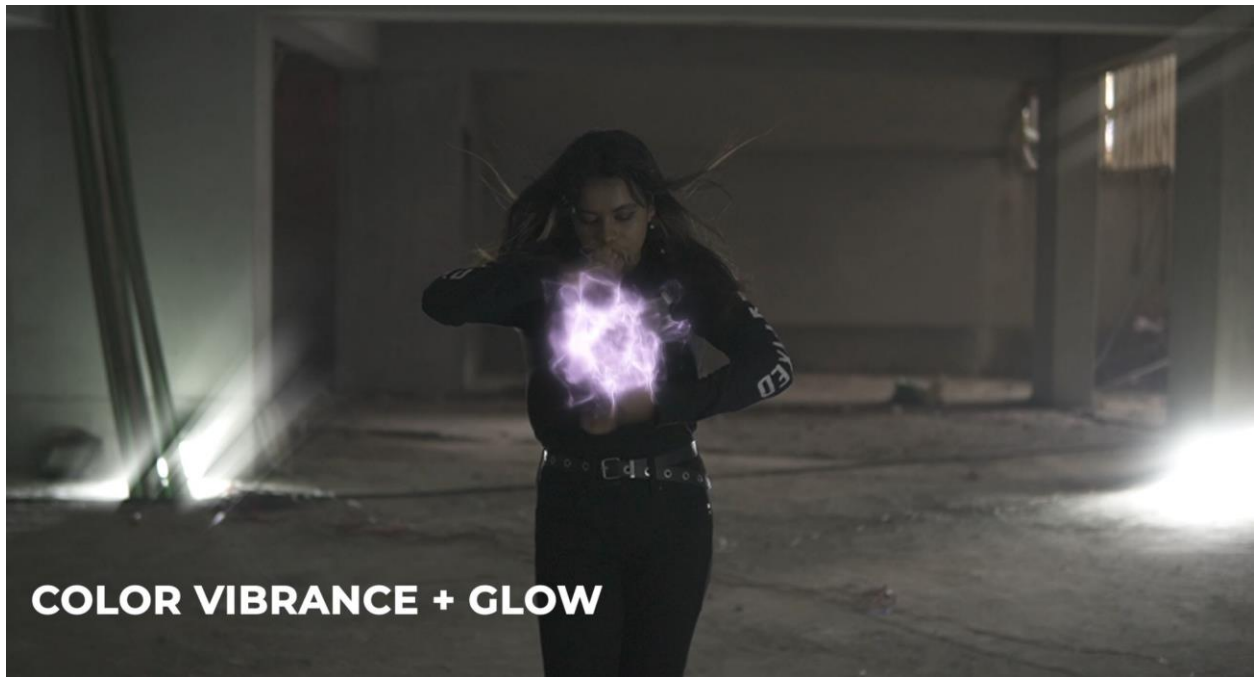


Figure 4.30: Color Vibrance + Glow



Figure 4.31: Energy Particles



Figure 4.32: Lens Flare



Figure 4.33: Practical Lighting



Figure 4.34: Dust Particles



Figure 4.35: Color Grading

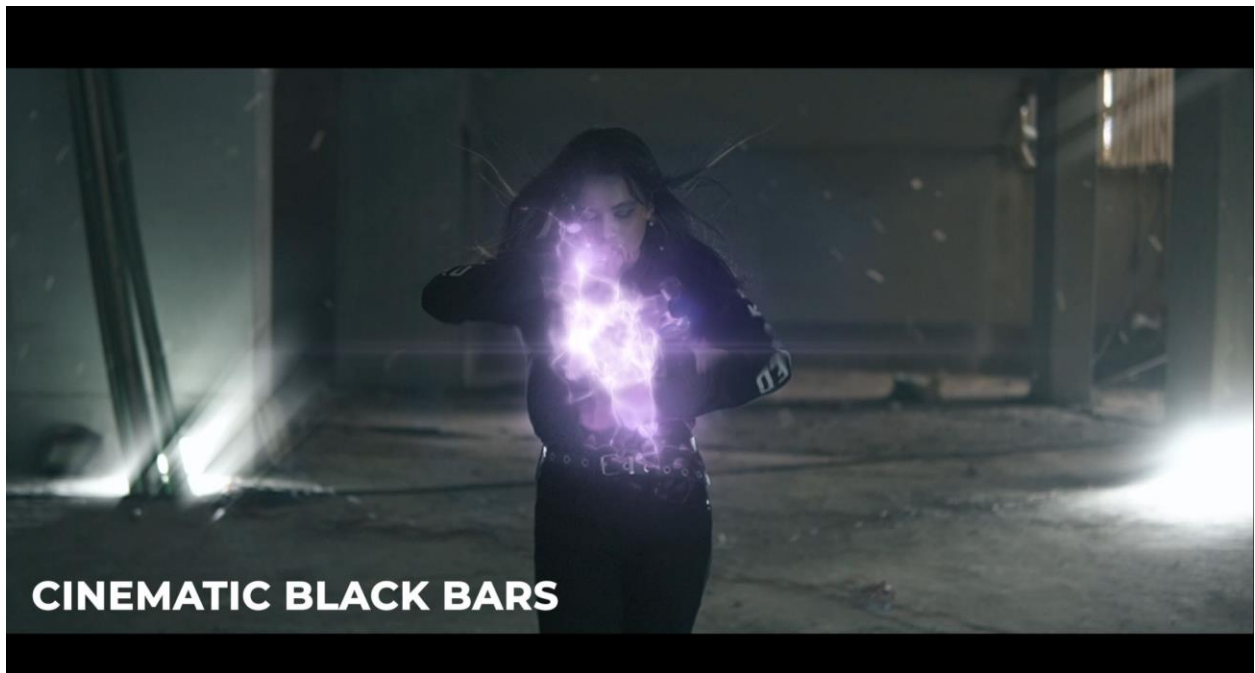


Figure 4.36: Cinematic Black Bars



Figure 4.37: Final Output

After going through that workflow, we get our desired output. This scene was from the practice session where our heroes practiced their newly found superpowers.

CHAPTER 5

EXPLANATION OF PROJECT

5.1 Introduction :

Film making is an art. It is a visual way of presenting any story within a certain time. Film industry is a vast area to work on. It has many sectors and each sector has different purpose. Film industry around the world has developed drastically along with the development of technology. I have always wanted to contribute to the Bangladeshi film industry and its betterment. I wanted to bring change with quality work. So, I came up with a story and the team decided to make me the Director of this short film as I have done Professional Course on Screenplay, Production and Direction for Film and Television from Pathshala Department of Film and Television and I have worked under professionals before. As a group of three members, we have decided to make a VFX short film on superheroes with the best output we could give. Hopefully my team might be able to bring some positive impact by our work and we intend to motivate newcomers to work bravely so that our industry can boom fast and compete with the bigger industries around the world.

5.2 Concept:

Shawon is a billionaire super villain who wants to take over the world by applying superhuman power inside his body. He threatened a mad scientist to come up with a special serum within 3 months. The scientist tried his best to come up with a serum but after failing 2 subjects, scientist went to a witch who have been helping the scientist for years in this kind of experiments. After failing again, the scientist became frustrated and escaped from his home. One day, his first experiment suddenly came back and he was glitching. Scientist realized that the others might be alive as well. As Shawon could not find the scientist he became mad, but he somehow found out the serum left on a desk. He applied the serum on his body and became powerful. He started destroying the city. The scientist told his subjects to go and protect the innocents. The Futurians fought very hard and after several tries they successfully defeated the villain.



Figure 5.1: Lab experiment

5.3 Production :

In pre-production stage, I had to come up with interesting shooting concept, different camera angles, twists which can connect the audience so that they continue their discussion after watching the film. I have written the screenplay following professional instructions so that while shooting everything feels easy for the team.

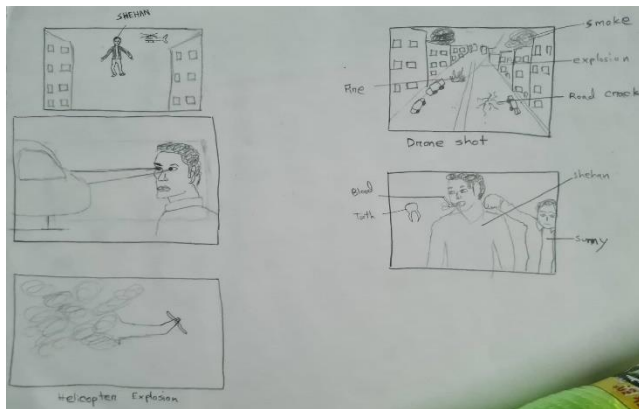


Figure 5.2: Storyboarding

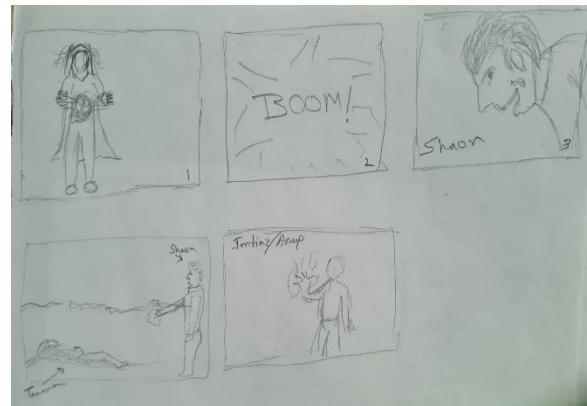


Figure 5.3: Storyboarding

After completing the screenplay and story boarding, I told the production manager to finalize the total budget for the short film. After that the team and I went to production stage and started shooting the film by Setting up lights, preparing the casts with dialogues and proper outfit, recording the footages according to the screenplay, checking the footages and retaking. It was a really complicated task for me as I have played the Scientist part as a cast, also at the same time I had to give instruction to the team as a director. First time acting and giving direction at the same time has made my task a bit complicated. I had to make sure all the casts are wearing proper props and they are playing their roles perfectly. Finally, I instructed the team to go to postproduction stage where the editor did all the cutting, sound designing, color grading, visual effects etc.

CHAPTER 6

DISCUSSION

After going through all the courses offered in our program and learning from some of the best people in our industry in these 4 years, we prepared our final project. These 4 year was not easy. We had courses from different field of media. From simple graphics design to complex 3D modeling and Simulation we had to learn it all. Throughout the year we were given beginner to profession level courses. After learning about all the different media, we chose VFX Short Film as our final project. Learning and doing course projects were not as hard for us as this final project. Because for the course project we were given some instructions by our faculty and sometimes our topic was given but this time we did everything ourselves. We did get feedbacks from our supervisor which helped us a lot. While doing this project we were pretty scared how it will turn out. Will we be able to get the output we wanted from the beginning? With all these questions in mid we moved on with our project. We did everything we could. As we did this ourselves, we did not know how people will react to it. Because different people have different preferences so we wanted to get some feedback from our fellow MCTians. We posted some sneak peak of our project to see how the people will react to our work. The response we got was beyond expectations. We were overwhelmed by the love and appreciation we got from them.

We did not limit ourselves to just our department. We even got some feedbacks from our friends and relatives. People who watch superhero movies and knows their stuff. We got pretty positive response from them too. They are really hopeful for this project. Most of them are eagerly waiting to see the full film.

We also got some suggestions from them. As they consume this type of contents a lot they know what will make it stand out among others. Those suggestions are really positive and we

implemented them in our projects. By implementing those our project quality has increased a lot. Getting feedback from a different prospect is really helpful in these scenarios.

After applying those we showed them the end result and they were really happy with the final output. The overall feedback we got from different place is positive and we hope it will be even better after they watch our full film.

We are really glad that people liked our vision and are happy with the outcome we have put in.

Some of the comments from the people are given below.

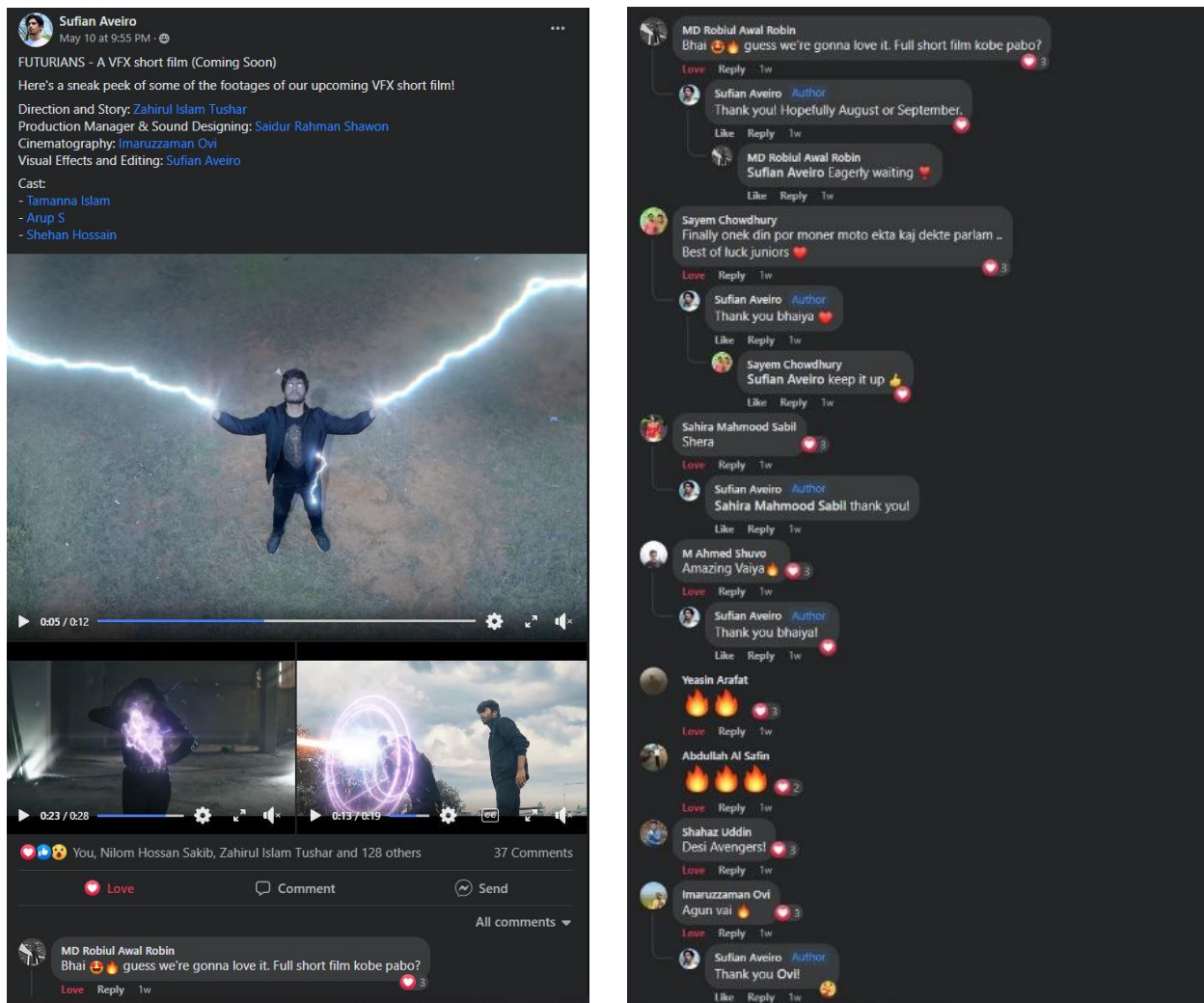


Figure 6.1: Audience Feedback

CHAPTER 7

CONCLUSIONS

The final output of our 4 years BSc in Multimedia and Creative Technology is complete. From early on I always wanted to make a VFX Short film as my final project. After getting to meet some amazing people who also had this vision I was overjoyed. I was completing all my courses and eagerly waiting to start my phase. When I finally completed my courses and got to phase 1 I could not wait anymore to give my presentation to approval from my supervisors to do VFX Short Film as my final project. The presentation went well and we got the approval. We set our goals straight and begins working. We have done everything on our capability. We did something which are not common in our media industry. We are trying to make a change in the industry. We wanted to inspire those skilled indivial who have the skills but are not coming out because there aren't many projects like this. By the response we got from the people we are really happy that we were able to do that. Many of our juniors are inspired by our project and are hoping to do something like this in the future. As for our project we are really happy with the final outcome. We did a in detailed short film which tells the story perfectly with some twist. The visual effects are mesmerizing and blends with the scenes perfectly. It's an eye pleasing film.

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