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[Subject: Organization and Management]

A CASE STUDY

ON

**ORGANIZATION AND MANAGEMENT OF THE ENTERPRISE - URJA
LABS**

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ABSTRACT

The pursuit of synthesizing novel images for 3D construction has evolved significantly since the 19th century, aiming to provide users with robust object experiences. This project delves into the realm of 3D image synthesis, exploring two prominent techniques: Neural Radiance Fields (NeRF) and Gaussian Splatting. NeRF utilizes deep learning techniques to synthesize novel views of complex scenes from a sparse set of images, achieving photorealistic results by learning and rendering volumetric scene functions. On the other hand, Gaussian Splatting is a point-based rendering technique that converts 3D point clouds into visually continuous surfaces using Gaussian kernels. Our investigation aims to delineate the theoretical frameworks, practical implementations and to develop interactive environment to facilitate the understanding of these complex concepts. The output is expected to be in video format for NeRF and interactive point cloud and photos for Gaussian Splatting.

Keywords: gaussian splatting, neural radiance field, novel view synthesis, point cloud

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CHAPTER 1

INTRODUCTION

1.1 Background

Urja lab is a ICT company and innovation hub established in 2018 in Pokhara. It offers co-working spaces, startup incubation, IT solutions and training programs. The company emphasizes engagement, exploration and empowerment, specializing in technology, branding, startup consulting, and events, while focusing on innovation and skill development. The company is of individual but the branch and establishment of other from the company is in partnership of not more than 3 people. As the decision making from the odd partnership is easy.

1.2 Vision of the Company

The mission of the company are:

- The vision of the company is to be a leading ICT company in Nepal, providing innovative solutions and services to the clients.
- The company aims to be a hub for innovation and technology, providing a platform for young entrepreneurs to grow and develop their ideas.
- The company also aims to be a leader in the field of bioinformatics research, contributing to the development of the field in Nepal.

CHAPTER 2

ORGANIZATION

2.1 History

Before joining their bachelor's program, they were self-motivated, reading business model books and always focused on starting a company. In the 3rd year of their bachelor's degree, they started their own company with a vision to contribute to society by teaching trending topics in technologies rather than being a client-service organization. Driven by a passion for entrepreneurship, they actively hosted various tech occasions. Currently, they are excited about bioinformatics research.

2.2 Objectives

The company has the following objectives:

- Initial goal: Empowerment of the youths in entrepreneurship
- Convert to a corporate company
- Create events so that youth can showcase their talents
- Research in bioinformatics

2.3 Working of Organization

2.3.1 Input

2.3.2 Output

The company provides the following services:

- Brand Guidaeline and Development
- Digital Marketing

- Event Management
- Technical Support for Business
- Courses on UTC(Urja Tech)
- Incubation and Entrepreneurship
- Human Resource Management

2.4 Organizational Structure

2.5 Forms of Ownership

CHAPTER 3
ORGANIZATION STRUCTURE

CHAPTER 4
FORMS OF OWNERSHIP

CHAPTER 5

MANPOWER MANAGEMENT

5.1 Personnel Policies and Manpower Planning

Personnel Policies ensure that an organization manages its workforce consistently and fairly, covering areas such as recruitment, conduct, compensation, performance management, and workplace safety. Most of these things are overviewed by CEO himself with consultant from his legal adviser and HR polices so that it stays quiet firm and make many decision-making aspects go very smooth without question its judgement.

Manpower Planning involves forecasting future human resource needs and developing strategies to meet those needs, ensuring the organization has the right employees to achieve its goals. In order to recruit manpower, they sent out many vacancies on LinkedIn for able and skilled employee. They also take recruits from their sister company of URJA TECH ACADEMY by giving them a project to check their level.

5.2 Recruitment and selection of manpower

5.2.1 Based on HR Policy

From the above mention planning and policies, the company may choose their best candidate to work from their own Academy.

5.2.2 Interview Process Overview

Our comprehensive interview process is designed to evaluate candidates thoroughly across multiple dimensions, ensuring they are a good fit for both the role and our organizational culture. The process consists of three distinct phases:

- Phase 1: General Interview

The first phase of the interview process is the General Interview. This initial interview serves multiple purposes:

- Introduction and Overview: The candidate is introduced to our company's mission, vision, values, and culture. This helps in setting the context for subsequent interviews and ensures the candidate understands what we stand for.
 - Resume Review: The interviewers review the candidate's resume in detail, discussing their previous work experience, education, and any other relevant information. This helps in verifying the credentials and understanding the candidate's background.
 - General Competency Assessment: The candidate is assessed on general competencies and soft skills such as communication, problem-solving, teamwork, and adaptability. Behavioral questions are often used to understand how the candidate has handled various situations in the past.
- Phase 2: Field-Specific Interview

The second phase focuses on the technical and field-specific skills required for the role:

- Technical Knowledge Assessment: Candidates are evaluated on their technical expertise and field-specific knowledge. This may include theoretical questions, practical problems, case studies, or technical tasks relevant to the position they are applying for.
 - Skills Verification: The candidate's ability to apply their knowledge in real-world scenarios is tested. This may involve situational questions or live demonstrations of skills, depending on the nature of the job.
 - Discussion with Subject Matter Experts: The candidate will have an in-depth discussion with senior team members or subject matter experts who can assess the candidate's proficiency in the specific field. This ensures that the candidate has the necessary expertise to excel in the role.
- Phase 3: Solo Interview (Perspective and Attitude-Based)

The final phase is the Solo Interview, which focuses on the candidate's personal attributes and cultural fit:

- Perspective Evaluation: Interviewers assess the candidate's perspectives on various work-related and ethical scenarios. This helps in understanding the candidate's thought process, decision-making abilities, and how they align with the company's values.
- Attitude and Cultural Fit: The candidate's attitude towards work, their motivation, and their alignment with the company culture are evaluated. Questions may be centered around hypothetical situations to gauge the candidate's reactions and approach.
- Self-Reflection and Future Goals: The candidate is encouraged to reflect on their career journey, strengths, weaknesses, and future aspirations. This helps in understanding their long-term goals and how they envision their growth within the company.

In this way, the selection of employee or a new manpower is done through these three phases of interview. It may seem the second round is mostly important for many people, the third round of interview is actually important to land the job.

5.3 Training and development of manpower

5.3.1 Reach Out to the Tech Masters

Engaging with experienced professionals in the technology field is a vital part of training. These "tech masters" can be mentors, trainers, or industry experts who provide valuable insights and hands-on knowledge.

Benefits:

- Expertise Access: Trainees gain access to a wealth of knowledge and real-world experience.
- Personalized Learning: Mentors can tailor training to individual learning needs and styles.
- Networking: Building relationships with established professionals can lead to future opportunities and collaborations.

Implementation:

- **Mentorship Programs:** Pair trainees with seasoned professionals for one-on-one guidance.
- **Workshops and Seminars:** Organize sessions where tech masters share their expertise on specific topics.
- **Guest Lectures:** Invite experts to give talks or conduct webinars on relevant subjects.

5.3.2 Online Resources

Leveraging online resources is essential for modern training programs. These resources include online courses, tutorials, webinars, forums, and e-books that provide flexibility and a wide range of learning materials.

Benefits:

- **Flexibility:** Learners can access materials at their own pace and convenience.
- **Diverse Content:** A vast array of topics and formats cater to different learning preferences.
- **Cost-Effective:** Many high-quality resources are available for free or at a low cost.

Implementation:

- **E-Learning Platforms:** Utilize platforms like Coursera, Udemy, LinkedIn Learning, or Khan Academy for structured courses.
- **Webinars and Tutorials:** Encourage participation in live webinars and video tutorials on platforms like YouTube or specific tech sites.
- **Discussion Forums:** Promote engagement in forums such as Stack Overflow, Reddit, or specialized tech communities to solve problems and share knowledge.

5.3.3 Providing Work that hones their skills

Practical experience is crucial for reinforcing learning. "Work, work, work" emphasizes the importance of hands-on practice, projects, and real-world application of skills.

Benefits:

- **Skill Application:** Practical tasks help consolidate theoretical knowledge and develop problem-solving skills.
- **Experience Building:** Real-world projects provide experience that is valuable for future employment or career advancement.
- **Confidence Boosting:** Completing projects and solving problems builds confidence in one's abilities.

Implementation:

- **Project-Based Learning:** Assign projects that require applying learned concepts to create tangible outcomes.
- **Internships and Practicums:** Facilitate opportunities for trainees to work in real-world environments through internships or practicum programs.
- **Hackathons and Competitions:** Encourage participation in hackathons, coding challenges, or other competitions to foster a competitive and collaborative spirit.

5.4 Job evaluation and Merit System

For the job evaluation, the company has decided to use following factors into consideration for the employee.

- **Rewards**
 - **Incentives:** Monetary (bonuses, raises) and non-monetary (recognition, extra time off).
 - **Benefits:** Boosts motivation, retention, and productivity.

- Implementation: Performance bonuses, recognition programs, and additional perks.
- Self-Assessment
 - Purpose: Employees evaluate their own performance.
 - Benefits: Enhances self-awareness, ownership, and continuous improvement.
 - Implementation: Use structured templates, regular intervals, and goal setting.
- Evaluation through Performance
 - Overview: Performance reviews with face-to-face feedback.
 - Benefits: Provides clear feedback, strengthens relationships, aligns goals.
 - Implementation: Use performance metrics, conduct review meetings, document evaluations.
- 1 to 1 talk
 - Purpose: Personalized feedback and support.
 - Benefits: Builds trust, offers tailored advice, addresses issues promptly.
 - Implementation: Regular check-ins, open dialogue, develop action plans.

As the company is currently in stagnant stages, they had chosen not take a bold step to put themselves in bigger stage. Putting themselves in a position not take consideration of merit system or rating for the employee as it might not be effective.

5.5 Removing of manpower

Sometimes it requires a few bold actions for a company to work in a very sustainable manner without destroying the ecosystem the company has provided over the past few years. So removing some of the employee re always a option for top of the management.

There are few considerations given while removing manpower.

- Intern:
 - They may get remove with immediate effect, without consideration.
 - Friends are allowed to intern there as it may disturb the ecosystem and prevention from groupism
- Beginner Member:
 - They will be given a few weeks notice before they are removed from the job.
- Senior Member:
 - They will be given two or three months notice before they are removed from the job.
 - They will also be compensated with some money about few months salary.

CHAPTER 6
MOTIVATION

CHAPTER 7
SUGGESTION

CHAPTER 8

CONCLUSION

8.1 Conclusion