

PORTFOLIO

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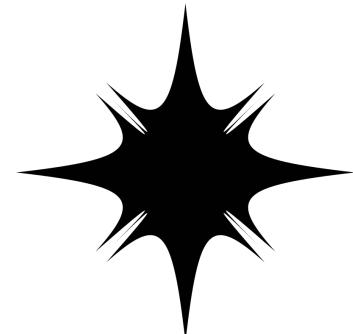
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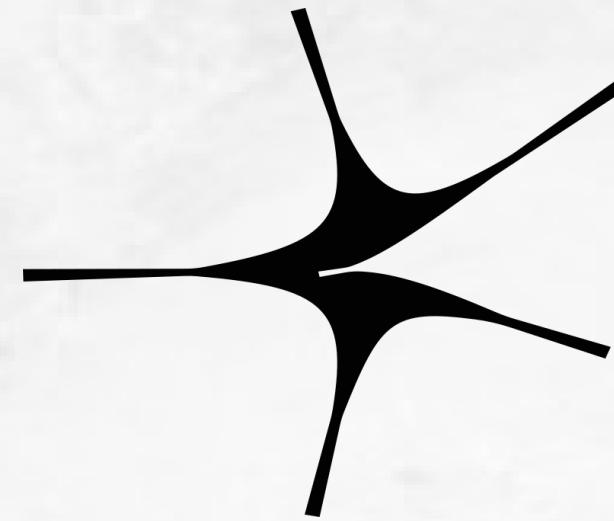
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CONTACT





HELLO, IM SAGAR



ABOUT ME

I am a highly accomplished technical communicator with a remarkable blend of skills. Leveraging my exceptional verbal and written communication talents, I specialize in crafting and editing documentation for diverse audiences within both technical and business settings. Additionally, my creative prowess and design skills set me apart.

With a background in technical communication from Seneca College and a Bachelor's degree in Information Technology from Tribhuvan University, I bring a unique perspective to my work. My professional journey has been multifaceted, encompassing roles as a creative design lead and the position of News Editor-in-Chief at dwitnews.com. This diverse experience has honed my ability to simplify complex technical information into user-friendly content while infusing a touch of creativity and design excellence.

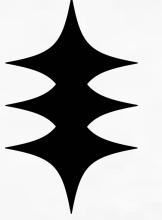
SUMMARY

I am a dedicated Technical Writing Communication student at Seneca College with a strong focus on effective communication through technical writing. My experience as Editor-in-Chief at dwitnews.com honed my editorial skills, and I've also ventured into video production, from script refinement to creating compelling content. My passion lies in conveying complex technical information clearly and succinctly, making me a well-rounded professional in technical writing and multimedia production.

I CAN HELP YOU

- Technical Documentation
- Online Help and Knowledge Base
- Content Editing and Proofreading
- News and Editorial Services
- API Documentation
- Information Architecture





SKILLS

TECHNICAL WRITING SKILLS

- Writing and Editing
- Technical Knowledge
- Documentation Types
- Audience Analysis
- Content Organizations
- Version Control
- Editing and Proof Reading
- Research and Fact Checking
- Help Authoring Tools
- Single Sourcing
- Style Guide

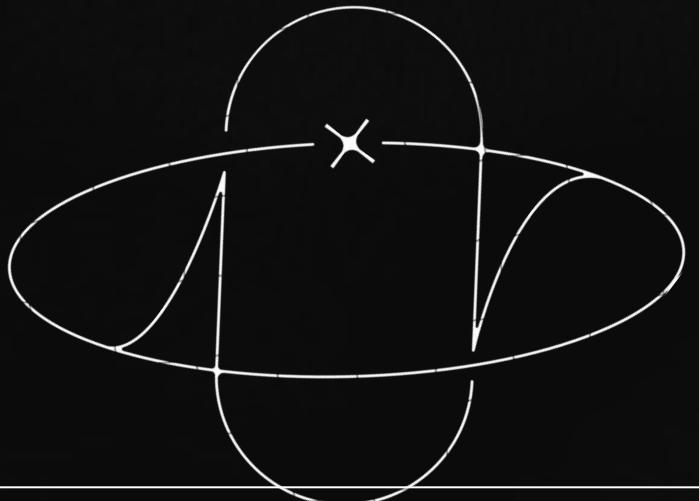
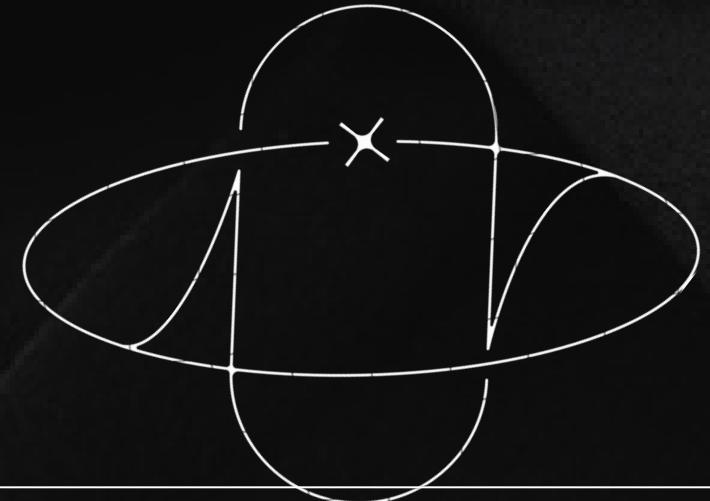
TECHNICAL SKILLS

- Madcap Flair
- Robo Help
- Adobe Framemaker
- Adobe Captivate
- MS Word, Powerpoint, Excel
- HTML/CSS
- Javascript
- Photoshop
- Illustrator
- InDesign
- Premiere Pro
- After Effects
- Figma
- Github

SOFT SKILLS

- Effective Communication
- Writing Proficiency
- Editing and Proofreading
- Adaptability and Research Skills
- Problem-Solving
- Collaboration
- Project Management
- Teaching and Training
- Creativity
- Leadership
- Customer Focus
- Multitasking
- Adherence to Standards

WORK EXPERIENCE



CREATIVE AND TECH LEAD

Deerwalk Group
Nepal

EDITOR-IN CHIEF

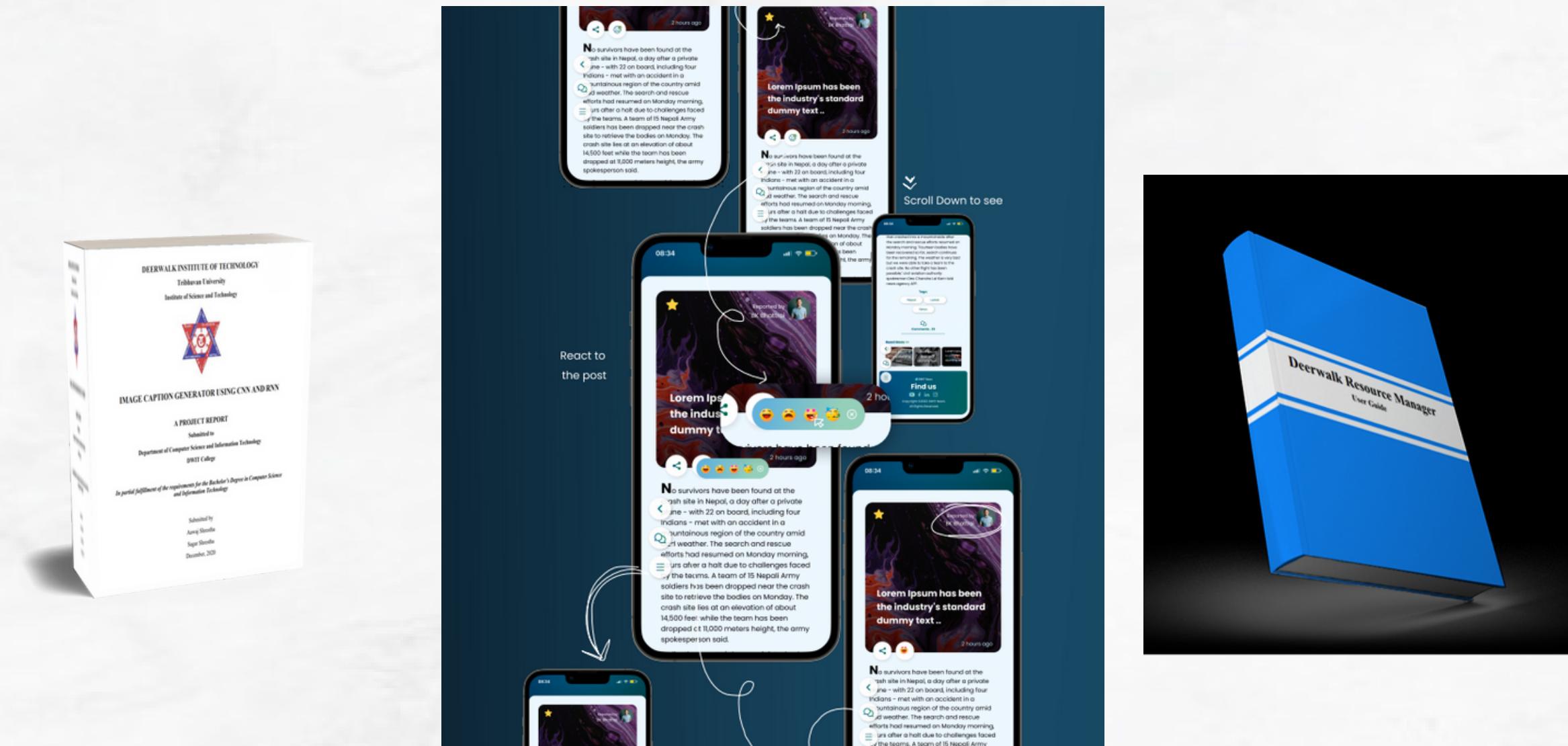
DWIT News
Nepal

INSTRUCTOR

Deerwalk Institute of Technology
Nepal



PROJECT



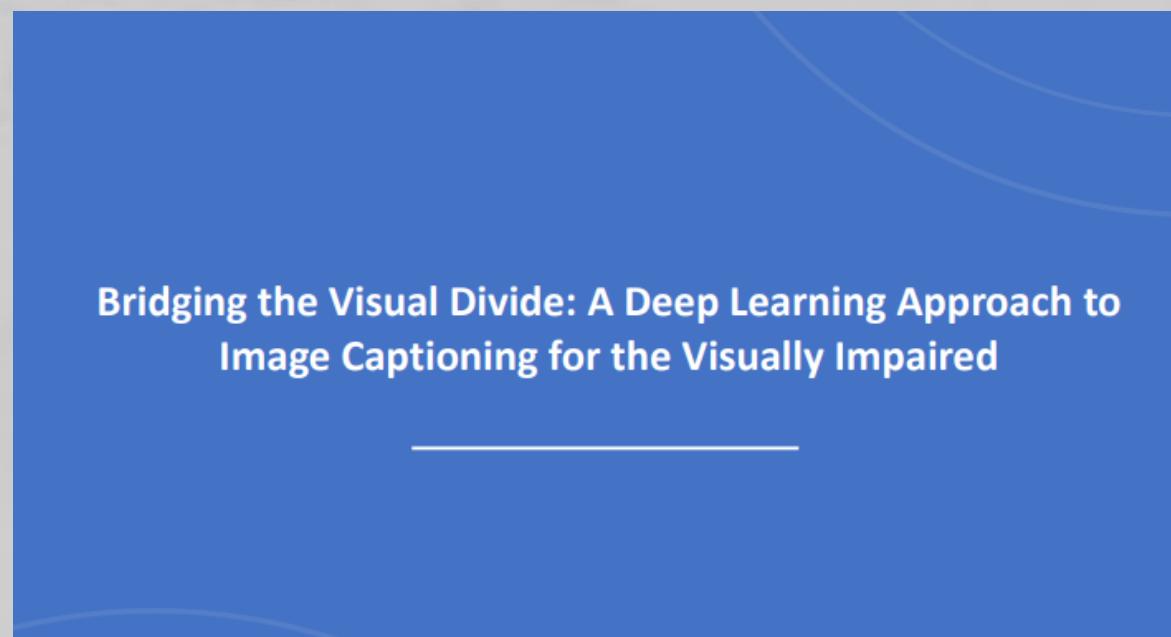
PORTFOLIO

PROJECT 01

Bridging the Visual Divide: A Deep Learning Approach to Image Captioning for the Visually Impaired

"Bridging the Visual Divide" is a white paper that presents a deep learning approach to image captioning designed specifically for the visually impaired. This research paper delves into the algorithm's intricacies and discusses its potential implementations. The study focuses on leveraging advanced machine learning techniques to generate descriptive captions for images, aiding individuals with visual impairments in understanding and interacting with visual content. The paper offers valuable insights into the algorithm's development and applications, showcasing a commitment to inclusive technology solutions for accessibility and user empowerment.

Authoring Tools: Microsoft Office, Photoshop



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Top-Down Approach

Top-down approaches attempt to generate a semantic representation of an image that is then decoded into a caption using various architectures, such as recurrent neural networks.

In the top-down approach, the model might create a semantic representation that understands the overall scene, such as "a sunny beach with people relaxing under umbrellas." The RNN then decodes this representation to generate a caption like "People are enjoying a sunny day at the beach, lounging under colorful umbrellas."

The latter approach follows in the footsteps of recent advances in statistical machine translation, and the state-of-the-art models mostly adopt the top-down approach. (Peter Anderson, Xiaodong He, Chris Buehler, Damien Teney)

This paper shows the top-down image generation models mentioned above. A deep convolutional neural network is used to generate a vectorized representation of an image that is then fed into a Long-Short-Term Memory (LSTM) network, which then generates captions. *Figure 2* provides the broad framework of the approach.

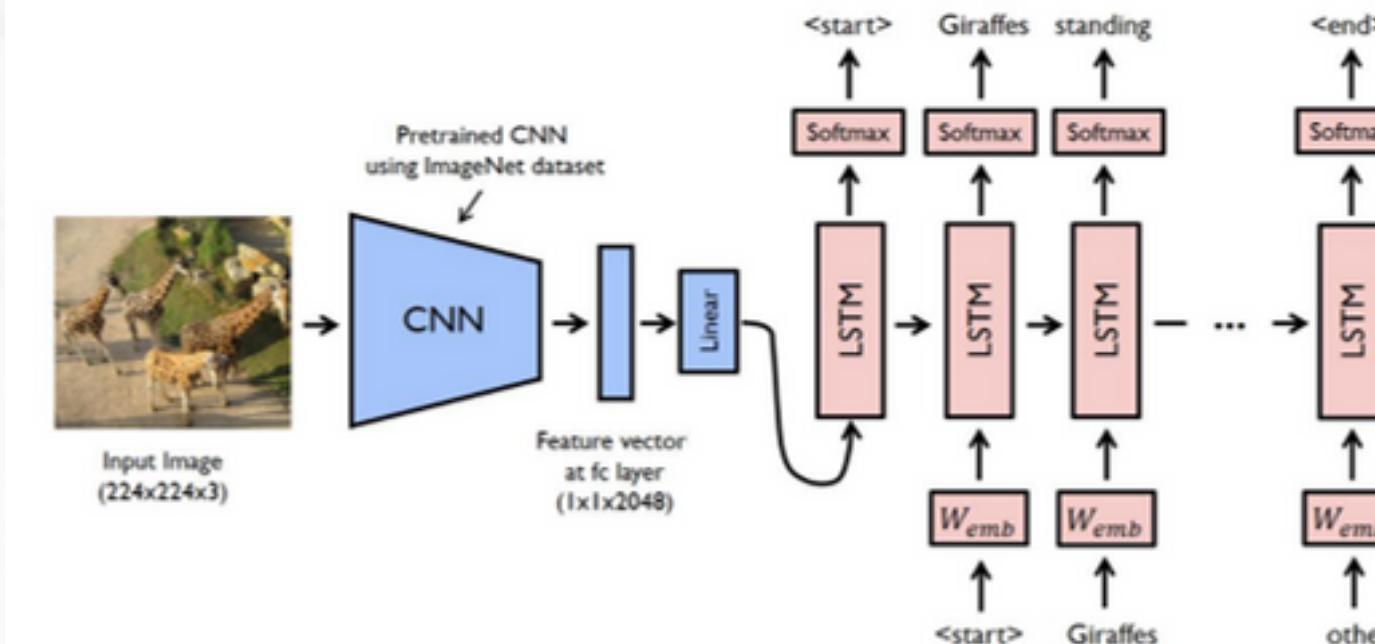
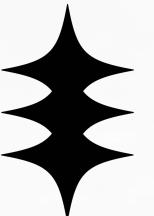


Figure 2: Automatic Image Captioning using Deep Learning (Top-Down Approach) (Shaikh)



PROJECT 02

Chapter 3: Configuring Employee Profile

Viewing Employee Details

The Employee Details section enables HR to access employee information with the ability to filter by unit or name. This feature allows HR to:

- Find employee details based on filters like unit or name.
- Check the punch-in details of employees for the current day.

In case an employee's punching is missed, HR can request the employee to provide a reason for the absence.

With this section, HR can efficiently manage and monitor employee attendance and information.

The following steps should be followed to view the employee details.

1. Click "HR Management" over the navigation bar.

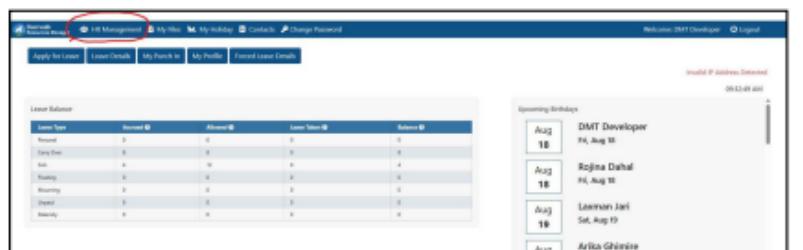


Figure 3.1: HR Management Navigation Menu

2. Click Employee Detail section under Employee Tab.

Adding an Employee

This functionality grants HR personnel the ability to input and manage employee particulars, as well as establish fresh employee accounts within the system. By utilizing this feature, HR can seamlessly integrate new employees into the organization's records and systems.

To add an employee:

1. From the dashboard, click "HR Management" button in the leftmost section of the navbar.
2. Click "Add Employee" under the employee category.

Exploring DRM Workspace

Punching In / Punching Out

The punch-in and punch-out¹ features in the DRM System enable precise attendance tracking for employees, including their punch-in and punch-out times, network details (such as IP Address) used during the process, and the total hours worked.

Punching In

1. Log in using the credentials provided by the DRM System. If you have HR privileges, you will be redirected to the HR Dashboard.
2. In the top right corner of the dashboard, click Punch-In button.

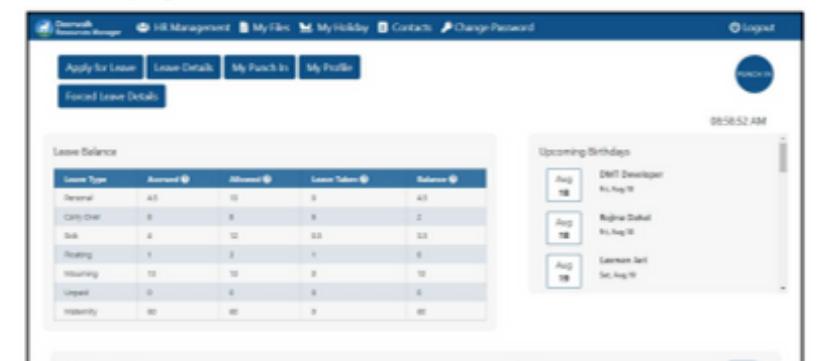


Figure 2.2: Punching In Button Dashboard

Note: If users are not present inside the college network, user are not authorized to punch in, and user will receive an "Invalid IP Address Detected" message.

1. The "Punching In / Punching Out" feature is an essential tool for tracking employee attendance and ensuring accurate record-keeping. It aids in efficient management of work hours and compliance with company policies and labor regulations.

Deerwalk Resource Manager : User Guide

"Deerwalk Resource Manager User Guide" is a comprehensive resource designed to assist HR professionals, particularly basic users, in effectively utilizing the Deerwalk Resource Manager application. This user-friendly guide provides step-by-step instructions on a wide range of functions, from employee account creation to office timing adjustments and email settings. Its primary focus on HR tasks makes it an invaluable tool for streamlining human resource management processes. With this guide, users can harness the full potential of the application to simplify HR operations and enhance efficiency.

Authoring Tools: Adobe Framemaker, Photoshop, Snipping Tool

Deerwalk Resource Manager User Guide

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PROJECT 03

Deerwalk Style Guide

The "Deerwalk Brand Guide" is a concise document created for the Deerwalk Group, providing guidelines for a unified brand identity in print and digital media. It covers logo usage, color palettes, fonts, visuals, and messaging, ensuring a consistent and recognizable brand presence. This guide is essential for maintaining brand integrity and resonance across all communication channels.

Authoring Tools: Microsoft Office, Photoshop, Illustrator

Deerwalk Brand Guide

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Brand Logo Identity

Application and Size Definition

- The corporate logo consists of logo image followed by brand name.
- The corporate logo is placed by the size of the visual layout.
- For sizes of standard advertisements, please use the attached layout template.



To ensure the corporate logo is properly recognized, it must follow the proper spacing in all sizes.

Logo Variations

Our corporate logo comes in two distinct variations, each designed to ensure the best visibility and brand consistency across unusual backgrounds. When using our logo, it's essential to follow these guidelines to maintain a cohesive brand identity.

Brand Color

Our brand colors, **Blue #0F5288** as the primary and **Green #046031** as the secondary, define our brand's identity and personality. #0F5288 stands as the dominant color, while #046031 complements it gracefully. Together, they create a powerful and cohesive visual presence across all branded materials.

By adhering to these brand color guidelines, we ensure that our brand's visual language stays compelling, recognizable, and coordinated across every touchpoint, leaving an impression on our audience and strengthening our brand's identity in the competitive market.

Primary Brand Color

Our primary brand color is **Blue #0F5288**. This color lies at the heart of our brand identity and is to be prominently featured across all branded applications. It serves as the dominant color in our visual branding and is essential for keeping consistency and strong brand recognition.

Blue



0F5288
RGB(15, 82, 136)
CMYK(98%, 73%, 22%, 6%)



3573A3
RGB(53, 155, 163)
CMYK(82%, 51%, 16%, 1%)



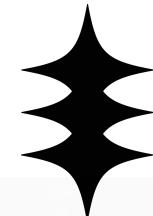
5A94BD
RGB(90, 148, 189)
CMYK(66%, 32%, 12%, 0%)



80B5D8
RGB(128, 181, 216)
CMYK(48%, 16%, 5%, 0%)



ASD6F2
RGB(165, 214, 242)
CMYK(32%, 4%, 0%, 0%)



CHAPTER 1: INTRODUCTION

1.1 Overview

Every day, we encounter a large number of images from various sources such as the internet, news articles, document, diagrams and advertisements. These sources contain images that viewers would have to interpret themselves. Most images do not have a description, but the human can largely understand them without their detailed captions. However, machine needs to interpret some form of image captions if humans need automatic image captions from it. Image captioning is important for many reasons. For example, they can be used for automatic image indexing. Image indexing is important for Content-Based Image Retrieval (CBIR) and therefore, it can be applied to many areas, including biomedicine, commerce, military, education, digital libraries, and web searching. Social media platforms such as Facebook and Twitter can directly generate descriptions from images. The descriptions can include where we are (e.g., beach, cafe), what we wear and importantly what we are doing there.

There are basically two main approaches to Image Captioning: bottom-up and top-down. Bottom-up approaches generate items observed in an image, and then attempt to combine the items identified into a caption [1]. Top-down approaches attempt to generate a semantic representation of an image that is then decoded into a caption using various architectures, such as recurrent neural networks [2]. The latter approach follows in the footsteps of recent advances in statistical machine translation, and the state-of-the-art models mostly adopt the top-down approach.

Our approach draws on the success of the top-down image generation models listed above. We use a deep convolutional neural network to generate a vectorized representation of an image that we then feed into a Long-Short-Term Memory (LSTM) network, which then generates captions. Figure 1 provides the broad framework for our approach.

1

CHAPTER 3: REQUIREMENT AND FEASIBILITY ANALYSIS

3.1 Requirement Analysis

3.1.1 Functional Requirement

The functional requirements of this project are as follows:

- The user shall upload one image of which the caption is to be generated.
- The system shall generate the caption of the image and display it to the user.

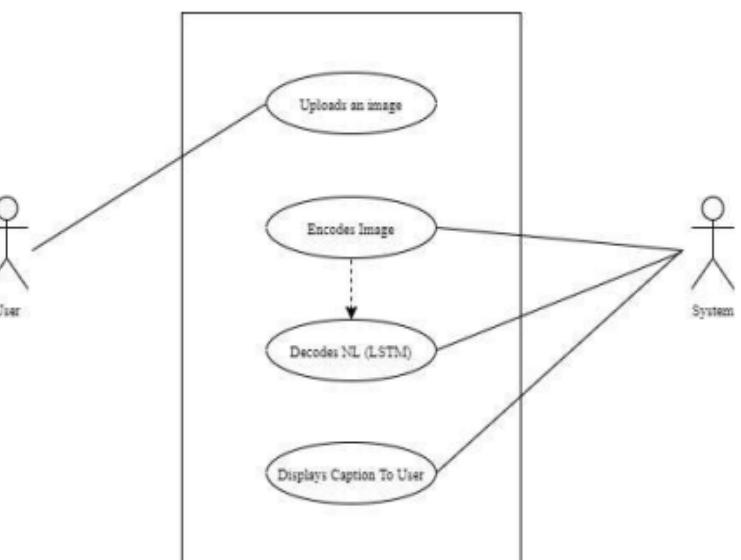


Figure 3- Use-case diagram of Image Caption Generator

Figure 3 shows the use case diagram of the caption generator system developed in this project. The user performs the solitary action by uploading an image. Then, the system **Encodes Image** using RNN and CNN whereas **Decodes NL** using LSTM. Once the NL is decoded the resulted caption is provided to the user.

PROJECT 04

Image Caption Generator using RNN and CNN

This project report is prepared to the Department of Computer Science and Information Technology at DWIT College, under the auspices of Tribhuvan University, in partial fulfillment of the requirements for a Bachelor's Degree in Computer Science and Information Technology. This paper encompasses all aspects of project research, requirements, and analysis.

Authoring Tools: Microsoft Office



IMAGE CAPTION GENERATOR USING CNN AND RNN

A PROJECT REPORT

Submitted to

Department of Computer Science and Information Technology
DWIT College

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PROJECT 05

DWIT News Case Study

DWIT News is an online news portal where I successfully improved the user experience (UX), resulting in a significant 15% increase in audience engagement. The project began with a thorough analysis of the existing issues, including a simplistic design, limited news categories, outdated visuals, and a lack of interactivity. To address these challenges, I streamlined and organized news categories, introduced a modern redesign, optimized the layout for better organization, implemented user sign-in/up functionality, and incorporated engaging features like reaction buttons, notifications, and post saving. This project reflects my proficiency in identifying problems, devising effective solutions, and ultimately improving digital platforms' user experiences, yielding substantial audience growth.

Authoring Tools: Figma, Photoshop, Illustrator



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Description

DWIT News is an online daily that is completely managed and run by college students of DWIT (Deerwalk Institute of Technology) College. DWIT News helps users to get updated with the news happening all around the world.

Problem Statement

The problems with the current versions of the website were analyzed and documented. Some of them are listed below:

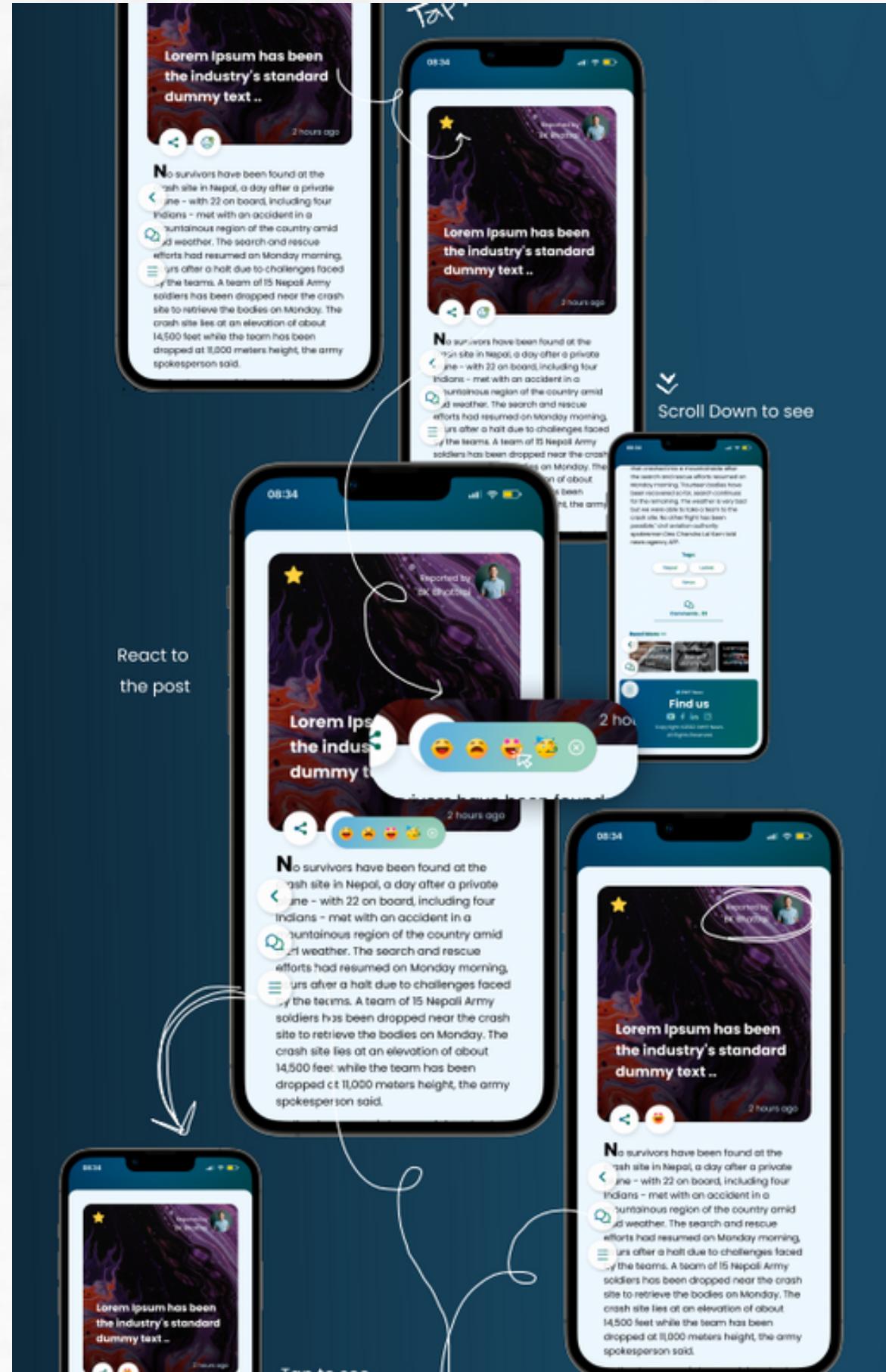
- Too simple
- Not enough news categories
- Outdated designs
- Not engaging / interactive layout

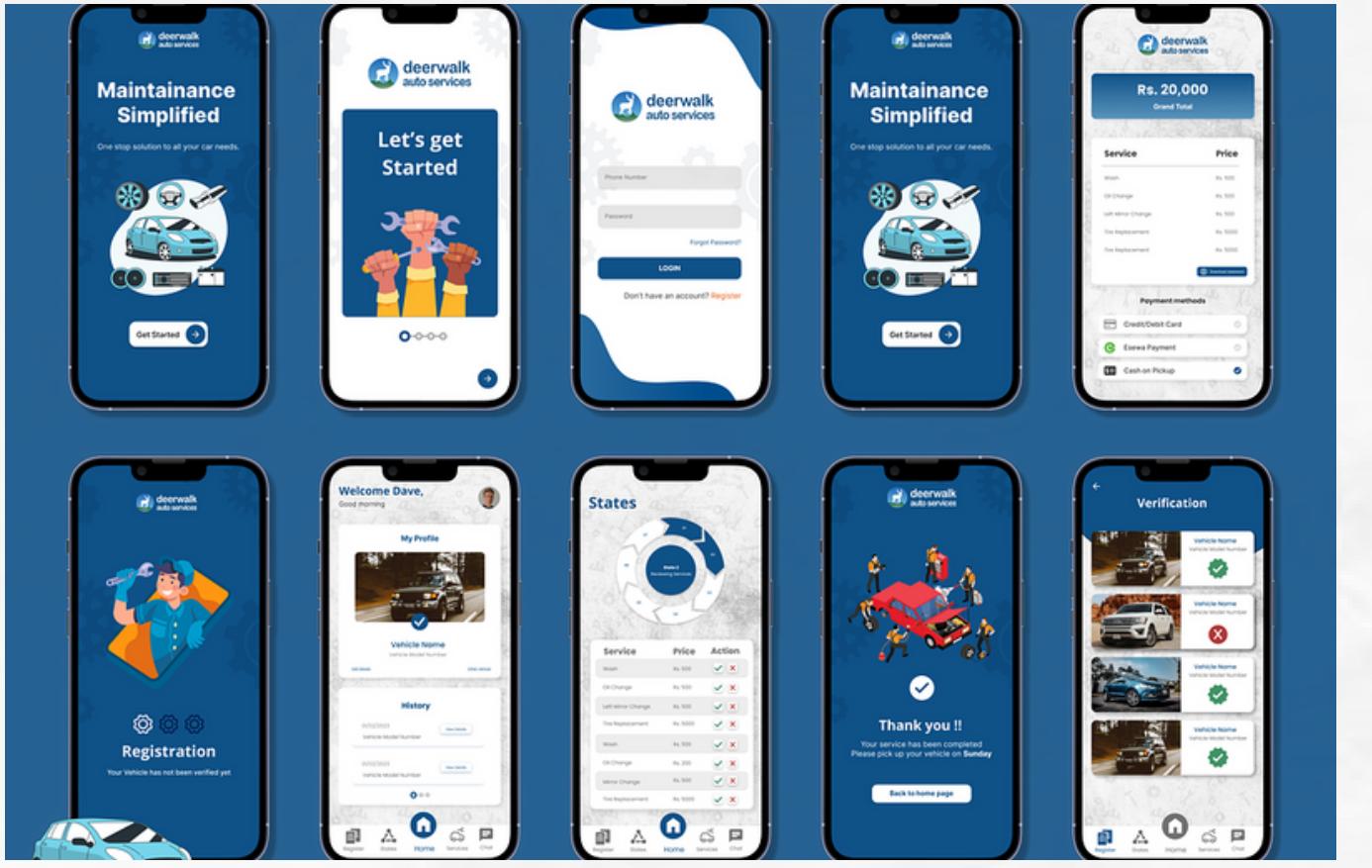
Possible Solutions

After analyzing the problem statements thoroughly, the possible solutions were established. The main goals of this website redesign are given below

- Declutter categories and add new ones
- Redesign using latest design concepts
 - Create organized layouts
 - Include sign in/up features
- Add new features for example; reaction, notifications, save posts and so on

A wireframe diagram of the DWIT News mobile application interface. It shows a top navigation bar with a logo and search bar, followed by a grid of news cards. Below the grid is a detailed view of a news article with sections for title, author, date, and content. At the bottom is a footer with links and social media icons.





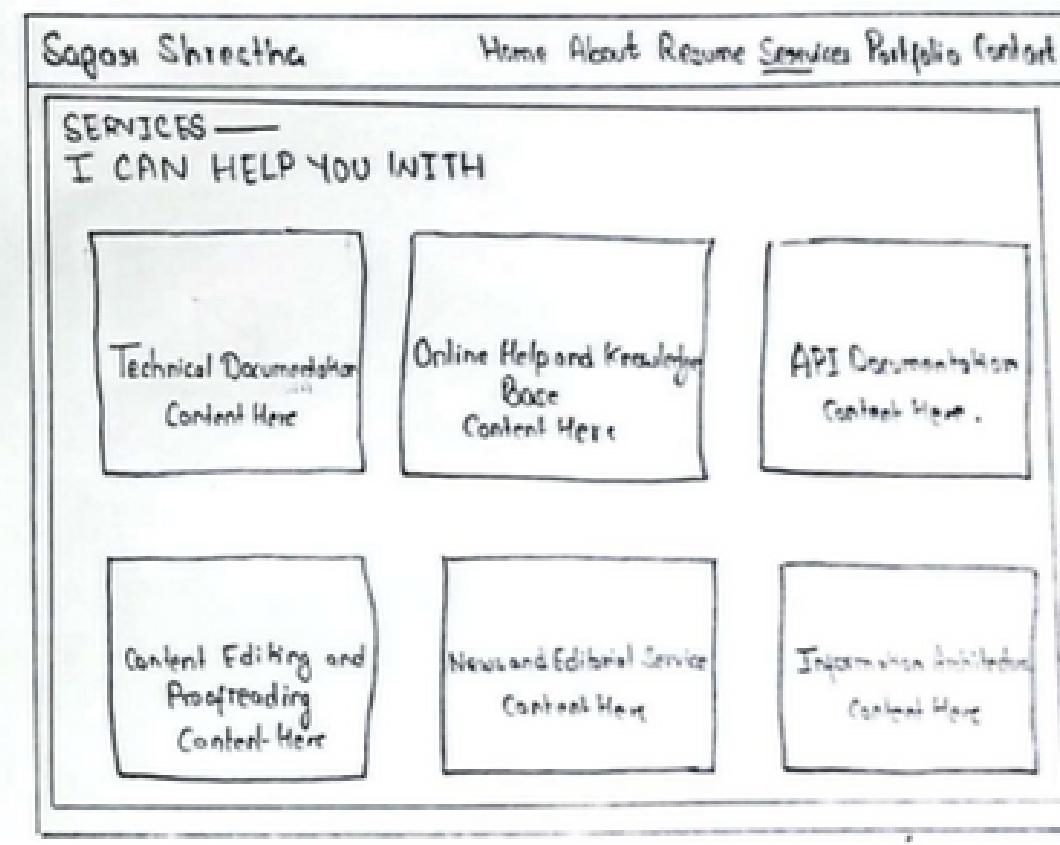
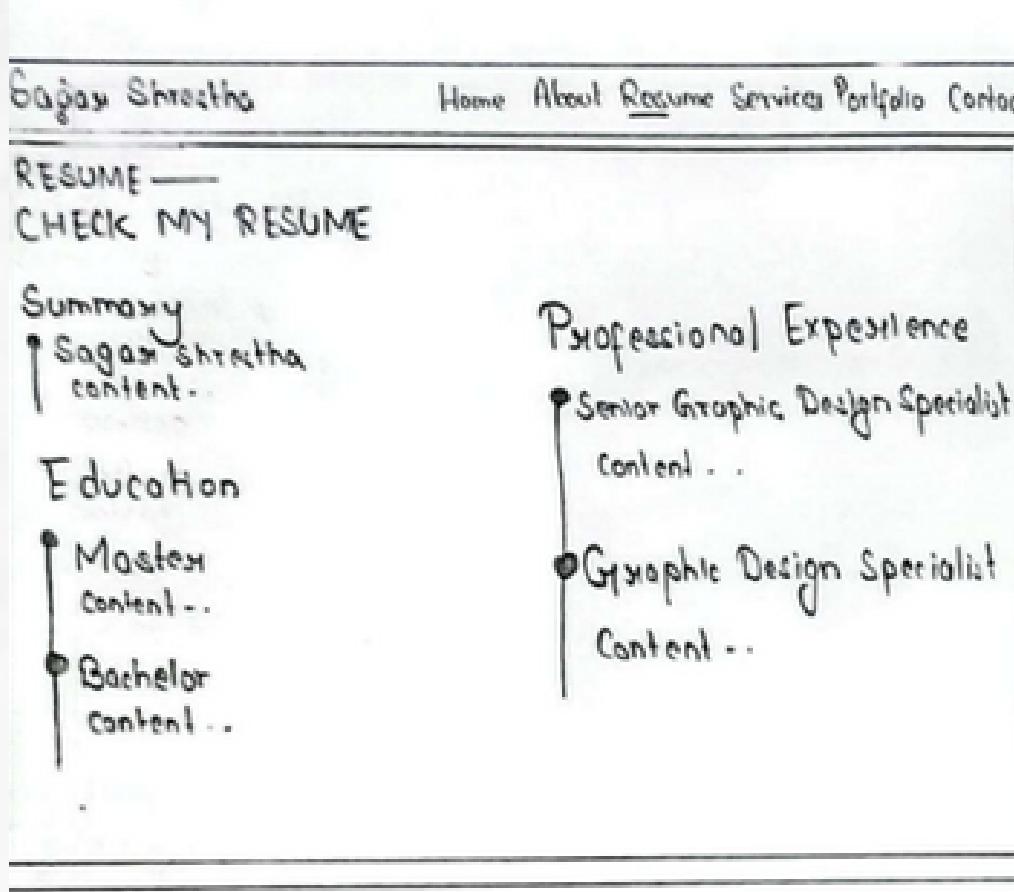
PROJECT 06

UI Designs

Drivelink is a nepali ticketing application, which helps users to buy / book the tickets in a cheap and fair prices.

Deerwalk Auto Services, DAS, is a "state-of-the-art" automobile repair shop run by Deerwalk Group. DAS differentiates itself by not only offering a hassle-free repair service, but also a fully stocked auto parts store. DAS has 7 maintenance bays out of which five have 2-post lifts, a separate area for dent paint and wheel alignment/balancing.

Tools: Figma, Photoshop, Illustrator



Sagar Shrestha

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Writing and designing user manuals, product guides, technical specifications, and documentation for software, hardware, or other technical products.
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Creating and maintaining online help systems and knowledge bases to assist users in troubleshooting issues and navigating software or systems.
- API Documentation**
Writing clear and comprehensive documentation for software APIs, SDKs, and developer tools to facilitate integration and usage.
- Content Editing and Proofreading**
Providing editing and proofreading services to improve the quality and accuracy of written materials, including news articles, reports, and technical documents.
- News and Editorial Services**
Using news editing and journalism experience to create news articles, blog posts, press releases, and editorial content.
- Information Architecture**
Structuring content and information for optimal user experience and findability.

Designed by Sagar

Sagar Shrestha

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- API Documentation**
Writing clear and comprehensive documentation for software APIs, SDKs, and developer tools to facilitate integration and usage.
- Content Editing and Proofreading**
Providing editing and proofreading services to improve the quality and accuracy of written materials, including news articles, reports, and technical documents.
- News and Editorial Services**
Using news editing and journalism experience to create news articles, blog posts, press releases, and editorial content.
- Information Architecture**
Structuring content and information for optimal user experience and findability.

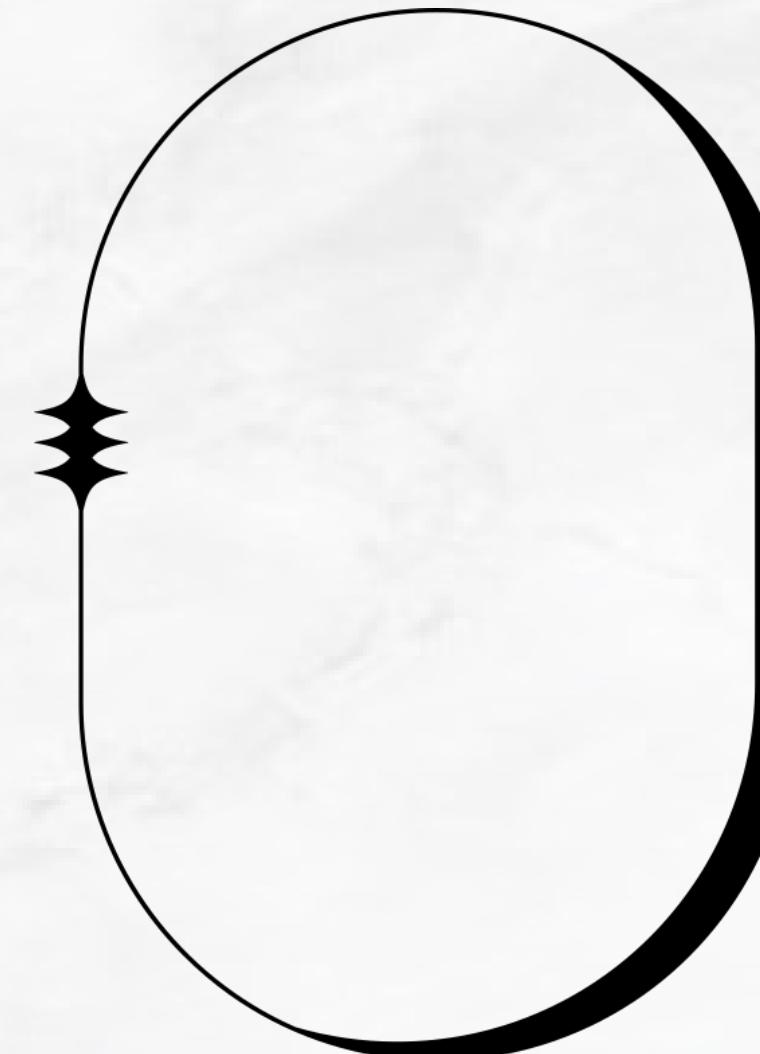
PROJECT 07

Online Portfolio Website

I took a comprehensive approach to create my online portfolio, starting with UI/UX concept development and progressing through frontend development. I began by crafting low-fidelity sketches using Procreate as a foundational blueprint, then refined the design in medium and high-fidelity stages using Figma. To bring the design to life, I implemented it using HTML, CSS, Javascript, and PHP, ensuring both visual appeal and seamless functionality. I then hosted the portfolio on Git and Namecheap for easy online access, resulting in a visually engaging and fully functional showcase of my skills in UI/UX design and frontend development.

Tools: Figma, HTML, CSS, Javascript, PHP, Github, Namecheap

**LET'S
WORK
TOGETHER**



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