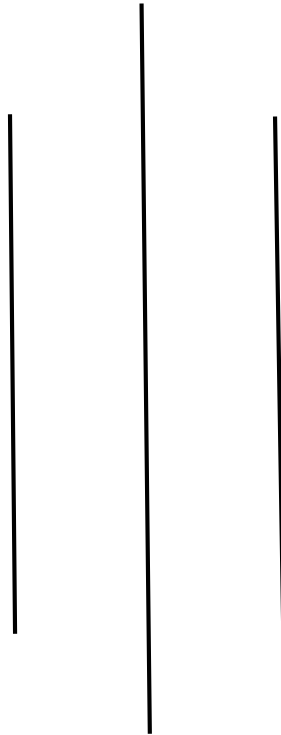# A PROPOSAL ON

"E-commerce Website Development"

SUBMITTED BY:

Prakash Mahara [211527]

SUBMITTED TO:

Er. Ashok Basnet, Lecturer

Nepal College of Information Technology (NCIT)

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Jun 22, 2023

Prakash Mahara

Koteshwor, Kathmandu 44600

Er. Ashok Basnet

Nepal College of Information Technology (NCIT)

Balkumari, Lalitpur 44700

Dear Sir

Subject: Proposal for E-commerce Website Development

In response to your request of few weeks ago. I am submitting this proposal for the development of a small e-commerce website as part of my project for the **Web Technology** course.

After careful consideration and analysis, I have decided to include a shopping section in the website to provide a practical application of web development skills and demonstrate knowledge in e-commerce concepts.

Sincerely,

Prakash Mahara

Acknowledgement:

I would like to extend my deepest appreciation to **Er. Ashok Basnet** for their guidance and support throughout the development of this proposal. I would also like to acknowledge the contribution of **Nepal College of Information Technology (NCIT)** in providing me with the necessary education and resources to undertake this project. Thank you once again for your time, consideration, and belief in the potential of this website development project.

Sincerely,

Prakash Mahara

Objective:

The primary objective of this project is to develop a small-scale website that incorporates a shopping section. The website will serve as a platform for users to browse and purchase products online. By undertaking this project, I aim to achieve the following goals:

1. Practical Application of Web Development Skills: This project will provide me with hands-on experience in designing and developing a functional website using the relevant web technologies, such as HTML, CSS, and JavaScript. I will have the opportunity to apply my knowledge of responsive web design, database integration, and user authentication to create a seamless shopping experience.

2. Understanding E-commerce Concepts: By including a shopping section in the website, I will gain a deeper understanding of e-commerce concepts, including product cataloging, inventory management, and shopping cart functionality. This project will enable me to explore the technical aspects of e-commerce and how they contribute to a successful online business.

3. User Experience and Interface Design: Developing a shopping section within the website will allow me to focus on user experience and interface design principles. I aim to create a user-friendly interface that enhances the overall shopping experience.

4. Project Management and Time Allocation: Throughout this project, I will learn project management skills by setting realistic milestones, allocating time efficiently, and ensuring timely completion of tasks. I will maintain a record of my progress and make any necessary adjustments to the project plan to meet the established timeline.
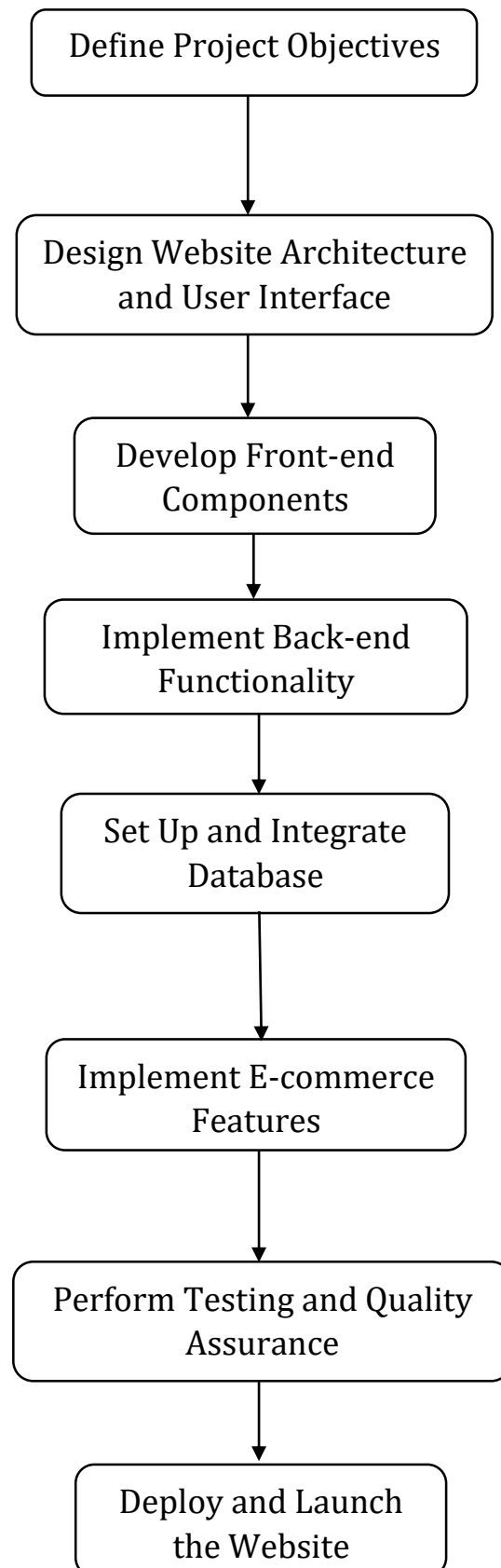
Project Scope and Features:

The website will include the following key features:

1. Mainly, Website will contain four options; Home, Shop, Contact, About.

2. Home Page will contain some tech related news, article and some videos of my YouTube channel. Shop section will be given for shopping products and Contact section will contain a form. About section will give information of our company details.

3. Product Catalog: The website will showcase a variety of products.

4. Buy Option: User will able to purchase products by simplify tapping on Buy option.

5. Responsive Design: The website will be designed to be responsive and compatible with different devices, including desktops, tablets, and mobile phones, to provide a seamless browsing experience across platforms.

Tech Stack:

1. Front-end Development:
   - HTML/CSS: HTML for creating the structure and CSS for styling the website.
   - JavaScript: Implement client-side interactivity and dynamic behavior.

2. Back-end Development:
   - Database: For data storage, we may use relational databases like MySQL.

3. Hosting:
   - Platforms like AWS, Azure are paid and **.com.np** is free.

4. Domain and DNS:
   - Registration of domain name and configuration of DNS settings to point to our web server.

Methodology:

Define Project Objectives

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Design Website Architecture and User Interface

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Develop Front-end Components

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Implement Back-end Functionality

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Set Up and Integrate Database

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Implement E-commerce Features

↓

Perform Testing and Quality Assurance

↓

Deploy and Launch the Website

1. Define Project Objectives

- Clearly outline the objectives of the e-commerce website project, such as creating an online platform for selling products.
- Identify and document the specific requirements of the website, including features, design, and functionality.

2. Design Website Architecture and User Interface:

- Create a block diagram to illustrate the website architecture, including the front-end, back-end, and database components.

3. Develop Front-end Components:

- Implement the user interface design using HTML, CSS, and JavaScript.
- Build responsive web pages that adapt to different screen sizes and devices for an optimal browsing experience.

4. Implement Back-end Functionality:

- Choose an appropriate server-side programming language (e.g. PHP) and develop the necessary back-end components.

5. Set Up and Integrate Database:

- Select a suitable database management system (e.g. MySQL) and design the database schema to store product information, user data, and order details.

6. Implement E-commerce Features:

- Incorporate essential e-commerce features such as search functionality and sorting, product details pages.

7. Perform Testing and Quality Assurance:

- Conduct thorough testing of the website to identify and resolve any bugs, errors, or usability issues.
- Perform functional testing, compatibility testing across different browsers and devices.

8. Deploy and Launch the Website:

- Set up web hosting and configure the necessary server infrastructure to deploy the website.
- Perform final checks, including cross-browser compatibility and website performance optimization, before making the website live.

Project Timeline:

I propose a timeline of Shrawan 01, 2080 B.S. to complete this project. The timeline will be divided into phases, including project planning, website design, development, testing, and deployment.

Conclusion:

Developing a small website with a shopping section for my project in the **Web Technology** course will provide practical experience in web development and e-commerce. This project will allow me to apply my web development skills, understand e-commerce concepts, and create a user-friendly shopping experience. With effective project management and guidance, I am confident in delivering a successful website. Thank you for considering this proposal.