**DEPARTMENT OF COMPUTER ENGINEERING**

**SCHOOL OF ENGINEERING**

**BIJAYAPUR, KASKI, POKHARA**



A Project Proposal on

**S.O.E Block-B Official Website**

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A Proposal submitted for the partial fulfillment of requirements for the degree of Bachelor of Engineering in Computer Engineering.

01 May 2022

**DEPARTMENT OF COMPUTER ENGINEERING**

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**POKHARA**

**APPROVAL**

     This project proposal entitled "**S.O.E Block-B Official Website** “ submitted by Mr. Ritik Gurung, Mr. Sobit Thapa, Mr. Bikash GC & Mr. Karan Adhikari as a partial fulfillment of the requirement of the B.E. Computer Engineering has been examined by us and is accepted.

Panel of Examiners:

Name:

Signature:

Date:

Head of Department

1.

Project Supervisor

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2. Er……………….

**ABSTRACT**

Block-B (S.O.E) is a website used for providing general information about S.O.E Block-B from the official & trusted sources. Its main aim is to provide the best &correct information to students & others interested, help them be aware of any notices or any changes made in daily Routing from anywhere without contacting the teachers or Class Representative. Before students had to make calls to their respective C.R, then wait for the reply to be delivered. Clearly, this isn’t really the best solution to obtain relevant information, especially for those with busy lifestyles. The best solution is to switch over to a trustworthy online source.

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# 1.0 PROJECT BACKGROUND

The students of BCoE (S.O.E) seek to create a sub-family for Block-B of the existing website, https://pu.edu.np/. The existing site has served the university well but the expectations and demands for the university have changed. So, for the convenience of students and teachers, we hope to build a better site to serve the community. The students are looking for a distinctive modern site to reflect the diversity, character, and uniqueness of P.U (S.O.E Block-B). It needs to be responsive for mobile devices, intuitive to easily find information, and accessible (handicapped access) to the entire community and visitors.

## 1.1 PROJECT OBJECTIVES

The members of S.O.E seek a responsive, browser-independent website to function as a key information resource for the community.

* The proposed website will have a clear, intuitive, and easily searchable design so that members of the community and visitors are able to maximize their work.
* The website provides a diverse list of services to the community. While many of the services are administered, the website will function as a gateway to provide access to all that information P.U has to offer along with notes. Therefore, the site will provide links to the official website and other external sites.

To accomplish the above, the site will be easy to maintain and easy to update with new content.

## 1.2 PROBLEM STATEMENT

Taking the example of the present situation, because of many departments and programs visitors to the official site have to sift through much-unwanted information. Most people have busy schedules and prefer to have a simpler and easy-to-use site. Having individual sites for each block saves the time and energy of the visitor.

## 1.3 PROJECT AS A SOLUTION

This website helps the user to sift through news and notices from PU related to S.O.E Block-B. This website aims to save the time and resources typically spent on searching for relevant information required by the user. It saves the time and energy of the users.

## 1.4 PROJECT ELABORATION

The project development process isn’t an easy task. It takes a lot of research and study towards a particular subject. It needs perfect dedication towards the project and hard work for the completion of the project. The project is basically divided into two major categories: development and documentation. The development of our project is based on the official website of PU. It is a website that helps the university to extend its service as well as helps students & visitors access information easily from anywhere.

The project is based on an information-based website. The website is maintained on a daily basis and posts news and notes from the teachers and trusted sources. In order to share and access notices and news, this project is very helpful. Starting from the first, every notice and news relevant to Block-B available on the Official site is entered into our site.

## 1.5 RELATED SEARCH

Different websites were researched on the internet and compared in order to find out whether our website can hold up to the standard expected by the visitors. Doing research on different websites has helped me to gather various ideas. Different websites which are searched and compared are mentioned below.

<https://pu.edu.np/>

<https://ku.edu.np/>

<https://www.ox.ac.uk/>

# 2.0 METHODOLOGY

Great design starts by understanding your objectives, we begin by asking questions. We work to understand the goals of the School of Engineering. We will define any design problems and develop strategies for solving those problems effectively and memorably. The tiered content approval levels will be established by understanding the process and incorporating it into the website design.

According to planning and designs we discussed to implement in this project. To better design product management, and project management, we divided website development activity into smaller, parallel or sequential parts or sub processes.

At this stage we will provide:

• A design brief describing our understanding of the project’s goals and parameters

• A detailed schedule to guide the process.

• Three to four strategic design concepts for evaluation

We then present the initial concepts to you and work with you to turn this concept into a comprehensive design. The best idea will be chosen for further development. Meetings will be scheduled as needed to accomplish a complete understanding

**Waterfall Model**

The Waterfall methodology, also known as the Waterfall Model, is a sequential development process, where progress flows steadily toward the conclusion (like a waterfall) through the phases of a project (that is, analysis, design, development, testing).

**Prototype Model**

The prototype model is a systems development method in which a prototype is built, tested and then reworked as necessary until an acceptable outcome is achieved from which the complete system or product can be developed.

**Agile Model**

Agile methodology is a type of project management process, mainly used for system development, where demands and solutions evolve through the collaborative effort of self-organizing and cross-functional teams and their user.

## 2.1 GENERIC MODEL

The prototype methodology was selected for the development of our project. The project has various stages which are described below along with the diagram.

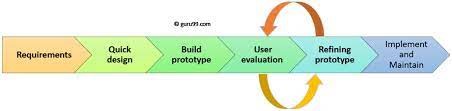


fig. Prototype methodology

**Requirements**

First, you need to collect requirements that typically include planning and sketching a sample that is presentable to users for reviewing and to make changes if necessary.

**Quick design**

In this stage, the requirements as well as the important stage such as input and output of the system is also known. So, the quick design of the project is made using prototype methodology.

**Build Prototype**

In this stage, the prototype of the project is made after requirement gathering and quick design. It is the most important stage of this methodology.

**User evaluation**

In this stage, the user evaluates the website and the feedback is provided to the user. It helps the developer to gain knowledge on drawbacks and limitations of the website.

**Refining prototype**

After the evaluation of the user, the project is redefined and the same process goes on until the user is satisfied.

**Implementation**

In this stage, the errors are maintained if any occurred in future after the development of the website and it helps to implement the project on any company. It helps to solve the problem if any occurred.

## 2.2 ALGORITHM/FLOWCHART

**Algorithm**

* **Phase I: Strategy & Concept Development**

Using the insight gained from analysis of the required content for the site, we plan to select several design alternatives that will communicate the material, with minimal modification, to visually express your core message with intuitive navigation. Every choice, from layout and color to type size and style will be made with users in mind. We shall then present the initial concepts to the user and work with users to turn the concept into a comprehensive design. The best idea will be chosen for further development.

* **Phase II: Web Site Design & Development**

 Once the best design is selected and approved, the heavy lifting development work is done next. At this phase, we examine the details, ensuring that every element works to aid the communication objectives of the project. The architecture and site map are completed. The CSS (Cascading Style Sheets) are flushed out. At this stage we will provide:

• Complete website (skeleton) complete

* **Phase III: Production Management & Implementation**

Now that the proper planning and development is in place, we implement the plan. The final website developed is ready for the migration of graphics and text. We proof and refine the design and content, check, doublecheck, proof again, and prepare the design for the final production environment. Then we will prove our project again and provide the preliminary site to you for review. At this stage we provide:

• Production proofs for proofing and corrections as needed

•  Testing of site for selected browsers, devices (iPhone, Android, Window etc.)

• Accessibility tests

• Training and production management for the finished project

• The finished project, style guide and all documentation

• SEO initial set-up

* **Phase IV: Outcome Evaluation**

Our work isn’t done after the website launches. We want to know how it works. We work with the users to gather feedback, and use this feedback to improve and optimize for the user in the best way possible.

**Flowchart**

Research and Information Gathering

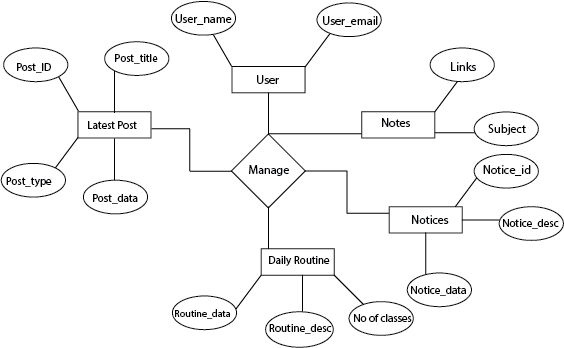
Planning and Time Management Analysis

Design and Development

Outcome, Evaluation and Updates

Fig. Flowchart for website development

## 2.3 ER DIAGRAM



## 2.4 TOOLS & PLATFORM

* **HTML**

The purpose of HTML for this website is to:

* To provide foundation for the Page
* To create components of the page
* To add required features
* **CSS**

Cascading style sheet will be used in this website for:

* Appearance and design
* Divide the page into sections according to their functions
* Personalization for easy usability
* Responsiveness
* **Visual studio code**

Visual studio code IDE is selected for this project particularly because:

* Highly compatible for Web development
* Easy to use and very fast
* Extensions
* **JavaScript**

JavaScript will be used for the following purposes:

* To make the page interactive
* To connect between server and client
* To load information only when chosen
* Animation of page elements
* **SQL**

Sql will be used for the following purposes:

* To construct a database
* To easily change the data
* **PHP (Laravel framework)**

PHP is used for the following purposes:

* To Access the database
* To build the server side web application

# 3.0 TIMELINE

| **PHASE** | **DESCRIPTION** | **END DATE** |
| --- | --- | --- |
| Phase 1 | Project Planning | Jun 5,2022 |
| Phase 2 | Web Site Design & Development | June 25,2022 |
| Phase 3 | Production Management & Implementation | July 04,2022 |

# 4.0 ABOUT US

Dark Horses is a student group that combines new-generation strategies and innovations to provide a reliable website. Our diverse team of students at S.O.E (BE Computer) allows us to leverage the skills of each to best suit the project.We hope to provide a simple and easy-to-use website for our fellow students and other users.

# 

# 5.0 REFERENCES

1. Official Pokhara University website at <https://pu.edu.np/>
2. Official Kathmandu University website at <https://ku.edu.np/>
3. Oxford University’s Official website at <https://www.ox.ac.uk/>