Madan Bhandari Memorial College

Binayak Nagar, New Baneshwor



Project of E-Governance "Ministry Of Education"

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Introduction

In today's digital era, electronic governance (e-governance) has become an integral part of modern societies, revolutionizing the way public institutions operate and interact with citizens. This lab report presents a comprehensive overview of the design and development process undertaken to create an e-governance website specifically tailored to meet the needs of the Ministry of Education. The primary objective of this project is to establish an online platform that promotes efficient communication, transparency, and accessibility in the realm of educational governance.

The Ministry of Education holds a pivotal role in shaping the educational landscape of a nation, ensuring the provision of quality education and equitable opportunities for all. Recognizing the tremendous potential offered by technology, the Ministry has embraced the concept of egovernance to streamline administrative processes, enhance information dissemination, and foster collaboration within the education sector.

One of the key features of the e-governance website is the Information Portal, which serves as a comprehensive repository of up-to-date educational policies, curriculum guidelines, scholarships, and initiatives implemented by the Ministry of Education. This feature is designed to provide stakeholders with easy access to reliable information, promoting transparency and informed decision-making processes.

In conclusion, this lab project contributes to the broader vision of e-governance and empowers the Ministry of Education in embracing digital transformation. By creating an innovative website, the Ministry aims to foster an inclusive, technologically advanced educational landscape that benefits all stakeholders. Through enhanced governance practices, improved communication, and the provision of accessible educational services, this e-governance initiative aims to propel the Ministry of Education forward into a more effective and responsive era.

Objectives

The objectives of our project are as follow:

- To develop a user-friendly platform that ensures citizens can easily navigate through the website and find the information they seek without any hassle.
- To inform citizens about various educational policies, curriculum guidelines, scholarships, and initiatives implemented by the Ministry.
- To incorporate mechanisms for citizens to provide feedback, share their opinions, and contribute to the improvement of educational services.

Overall, our project revolves around the core objectives of simplifying access to education-related information, informing citizens about educational policies and initiatives, and actively seeking feedback from the people. By achieving these objectives, we aspire to create a more inclusive and participatory education system that meets the diverse needs and aspirations of the citizens while fostering a sense of ownership and accountability within the education sector.

Technology Used

The development of the website's front end and back end involved the utilization of several robust tools and technologies. These tools were carefully selected to ensure the creation of a high-quality, efficient, and scalable e-governance website for the Ministry of Education. The following are the key tools and technologies employed:

1. WordPress:

WordPress, a widely acclaimed content management system (CMS), served as the foundation for the website's development. Leveraging its user-friendly interface and extensive plugin ecosystem, WordPress facilitated the efficient creation and management of the website's content, ensuring seamless updates and customization.

Themes: WordPress users may install and switch among many different themes. Themes allow users to change the look and functionality of a WordPress website without altering the core code or site content. Every WordPress website requires at least one theme to be present.

2. MySQL:

MySQL, a powerful open-source relational database management system, played a critical role in the storage and retrieval of data for the website. By utilizing MySQL, we ensured the efficient management of complex data structures, enabling seamless interactions between the website and the underlying database.

3. XAMPP:

XAMPP, an all-in-one development environment, was instrumental in setting up a local server environment for testing and development purposes. With XAMPP, we were able to simulate the website's functionality in a secure and controlled environment, ensuring smooth integration of the various components and features.

By harnessing the power of these tools and technologies, we achieved a robust and scalable e-governance website for the Ministry of Education. The careful selection and integration of these technologies ensured the website's stability, security, and optimal performance, contributing to a seamless user experience and effective governance in the education sector.

Proposed Website

The proposed website aims to create a user-friendly platform that prioritizes ease of navigation, ensuring citizens can effortlessly access the information they require without any inconvenience. The website will be designed with intuitive interfaces and a logical structure, enabling visitors to locate desired educational information quickly and efficiently.

A key objective of the website is to inform citizens about the diverse range of educational policies, curriculum guidelines, scholarships, and initiatives implemented by the Ministry. Through well-organized and regularly updated content, the website will serve as a reliable source of information, providing clear and comprehensive details regarding these aspects. Citizens will have access to the latest updates, ensuring they stay informed about important educational developments and initiatives.

Recognizing the significance of citizen engagement, the website will incorporate mechanisms to encourage feedback and active participation from users. Various channels, such as feedback forms, surveys, and interactive forums, will be implemented to provide citizens with opportunities to share their opinions, suggestions, and concerns related to educational services. This feedback will play a crucial role in informing the Ministry's decision-making processes and facilitating continuous improvement in the delivery of educational services.

The user-centric design of the website will prioritize accessibility and inclusivity, ensuring that individuals with varying levels of technical expertise can navigate the site without difficulty. The website will be optimized for responsiveness across different devices and screen sizes, making it accessible to a wide range of users, including those accessing it from mobile devices. By keeping the website lightweight and minimizing resource requirements, it will be accessible to users with varying internet speeds, ensuring widespread accessibility.

Functional Requirement

The functional requirements for the Ministry of Education website are defined to ensure that citizens and administrators can effectively utilize the system and achieve their respective objectives. These requirements outline the specific functionalities that the website should possess. The functional requirements for the website are as follows:

- 1. Citizens should be able to view comprehensive information about ongoing projects and past projects implemented by the Ministry of Education. This includes details such as project descriptions, objectives, progress updates, and outcomes. The information should be presented in an organized and easily accessible manner, allowing citizens to gain a clear understanding of the initiatives undertaken by the Ministry.
- 2. Citizens should have the ability to download various official documents and document formats available on the website. These documents may include educational policies, curriculum guidelines, reports, research papers, and other relevant materials. The website should provide an intuitive interface that allows users to locate and download these documents conveniently, promoting transparency and information sharing.
- 3. The website should feature an image gallery page where citizens can view different image galleries related to the Ministry's activities, events, and educational initiatives. These image galleries should be visually appealing, showcasing photographs and visuals that highlight the achievements and milestones of the Ministry. Users should be able to navigate through the galleries easily and view images in high quality.
- 4. The administrator should have the capability to add new posts to the website and have control over editing or deleting existing posts. This functionality enables the Ministry to share important announcements, news updates, and articles on the website. The administrator should have access to a user-friendly content management system that simplifies the process of creating and managing website content.
- 5. The administrator should be able to add, edit, or delete different categories on the website. This functionality allows the Ministry to organize and categorize information effectively. Categories can include educational programs, policies, scholarships, and initiatives. The administrator should have the flexibility to modify these categories as needed, ensuring the website's content remains relevant and well-structured.

Nonfunctional Requirement

The non-functional requirements for the Ministry of Education website focus on the overall constraints and characteristics that contribute to the system's performance and usability. These requirements ensure that the website operates reliably, efficiently, and remains accessible to users. The non-functional requirements for the website are as follows:

1. Speed:

The website should be responsive and provide quick responses to user requests. The server should complete requested tasks and deliver the corresponding web pages within two seconds, ensuring a seamless user experience and minimizing waiting times.

2. Performance:

The website should consistently and efficiently function across all devices, including PCs, laptops, and mobile devices. It should be optimized to adapt to different screen sizes and browsers, ensuring a consistent and user-friendly experience for all visitors.

3. Availability:

The website should be accessible and available to users at all times. It should be designed and hosted in a manner that ensures high uptime and minimal downtime, allowing citizens to access information, download documents, and engage with the website without interruption.

4. Portability:

The website should be designed and developed to be platform-independent. It should be accessible through various devices, including PCs, laptops, and mobile devices, via standard web browsers. This portability ensures that users can access the website conveniently, regardless of their preferred device.

5. Reliability:

The website should operate reliably, ensuring that citizens can view posts, download documents, and access information without any disruptions or errors. It should be designed to handle a large number of concurrent users, ensuring smooth and consistent performance even during peak usage periods.

Implementational Requirement

Hardware Requirements:

Processor	I5 or better
RAM	5GB or higher
Hard Disk Space	Minimum 5GB or higher

Software Requirements:

Operating System	Windows, MACOS, Linux or any other platform that supports web browser
Database Management System	MySQL
Web Server	Apache
Client Application	Any Web Browser

Implementation

WordPress Theme Used	WordPress Plugins Used
Catch Kathmandu	Ivory Search

Admin Side



fig: admin login

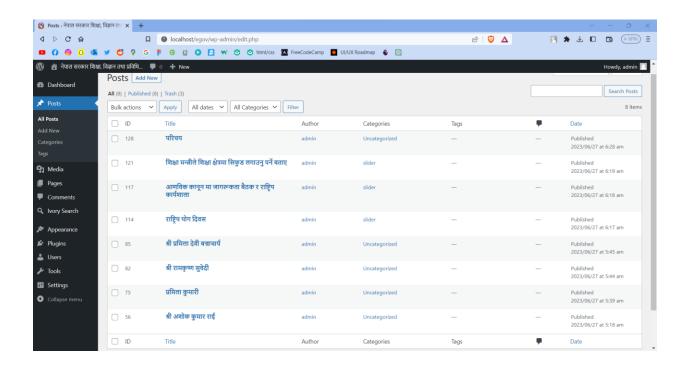


fig: posts list

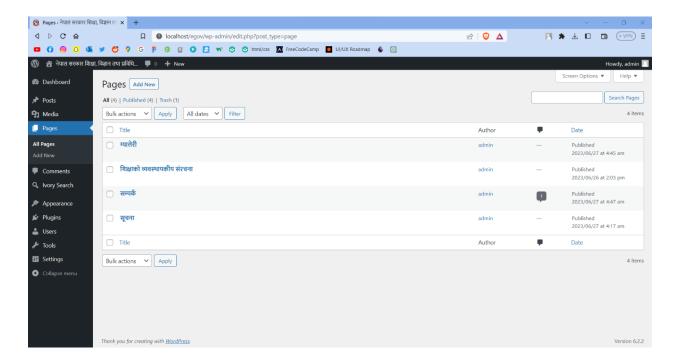


fig: pages list

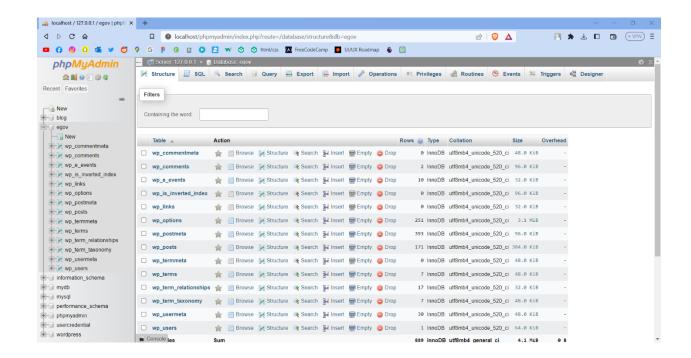
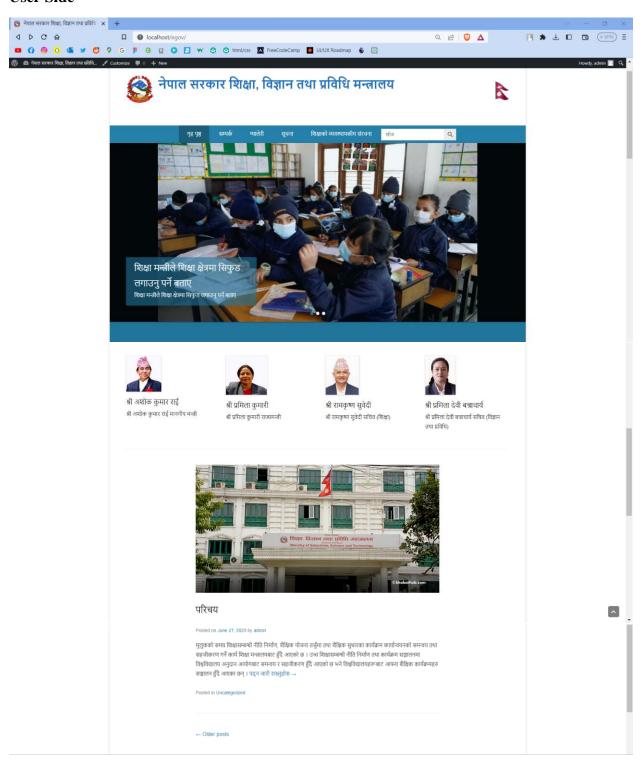


fig: database

User Side



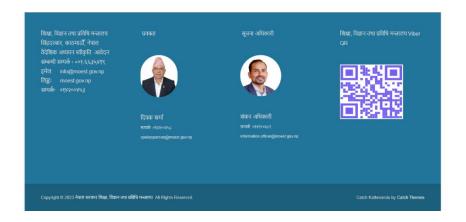


fig: Home Page



fig: Post



fig: Contact Page



fig: Gallery Page

सूचना

मिति	शीर्पक
२०८० असार ६	सम्माननीय राष्ट्रपति श्री रामचन्द्र पौजेलज्यूले अन्तराष्ट्रिय योग दिवसको अवसरमा दिनु भएको ग्रुभकामना
२०८० असार ४	प्रस्तुति र अन्तरवार्ता सम्बन्धी कार्यक्रम स्थगित गरिएको सम्बन्धी सूचना
२०८० असार ४	श्री नेपाल विज्ञान तथा प्रविधि प्रज्ञा प्रतिष्ठान उपकुलपति सिफारिस समितिको सूचना ।
२०८० असार १	राष्ट्रिय शिक्षा दिवस २०८० मानाउने सम्बन्धमा।
२०८० जेठ २१	राष्ट्रिय शिक्षा दिवस २०८० मानाउने सम्बन्धमा।
२०८० जेठ १४	माननीय मन्त्री अशोक कुमार राईज्यूको अध्यक्षतामा संघ, प्रदेश र स्थानीय तह (समन्वय तथा अन्तरसम्बन्ध) ऐन, २०७७ को द्रफा २२ अनुसार गठन भएको विषयगत समितिको बैठकको निर्णय।
२०८० जेठ ७	अनुदान रकम सिफारीस गरिएको सम्बन्धमा।
২০८০ जेठ ७	अपुग रकम व्यवस्थापन सम्बन्धमा।
२०८० बैशाख २१	वैदेशिक अध्ययन/ तालिम छात्रवृत्तिमा आवेदन पेश सम्बन्धी सूचना ।
२०८० बैशाख १३	वैदेशिक अध्ययन स्वीकृति सम्बन्धी निर्देशिका, २०७९
२०८० बैशाख ८	राजर्षिजनक विश्वविद्यालयको उपकुलपति नियुक्तिको लागि दरखास्त दिने सम्बन्धी सूचना ।

fig: Notice Page

शिक्षाको व्यवस्थापकीय संरचना



शिक्षाको व्यवस्थापकीय संरचना

नेपालमा शिक्षासम्बन्धी नीति निर्माण र समस्त योजना, कार्यक्रमको समन्वयका लागि शिक्षा मन्त्रात्वय रहेको छ । उच्च शिक्षाको नीति निर्माणमा सहयोग र सञ्चालनको समन्वय विश्वविद्यालय अनुदान आयोगले गर्दछ भने विश्वविद्यालयहरू आफ्ना कार्यहरू सञ्चालन गर्नका लागि स्वतन्त्व रहेकाछन ।

शिक्षा मन्त्रालयअन्तर्गत शिक्षा विभागते विद्यालय शिक्षाको वार्षिक योजना तर्जुमा, कार्यान्वयन र व्यवस्थापन गर्दछ । शिक्षा विभागते जिल्ला शिक्षा कार्यालयहरूमार्फत् शैक्षिक योजना कार्यान्वयन, अनुगमन र व्यवस्थापन गर्दछ । प्रत्येक विद्यालयमा रहेको व्यवस्थापन समिति विद्यालयको सञ्चालन र व्यवस्थापनमा जिम्मेवार हुन्छ ।

शिक्षक विकासका लागि केन्द्रीय स्तरमा शैक्षिक जनशक्ति विकास केन्द्र रहेको छ भने यसअन्तर्गत ३४ ओटा तालिम केन्द्रहरू रहेका छन् । यी तालिम केन्द्रहरूले शिक्षकहरूका विभिन्न किसिमका तालिम सञ्चालन गर्दछन् । केही विद्यालयहरूको समूहमा स्थापित स्रोतकेन्द्रहरूबाट शिक्षक र विद्यालयलाई शिक्षणिसकाइमा सुधारका लागि सहयोग गर्ने व्यवस्था पनि गरिएको छ । हाल देशभर जम्मा १०५३ स्रोतकेन्द्रहरू सञ्चालित छन् । पाँच विकास क्षेत्रमा रहेका क्षेत्रीय शिक्षा निर्देशनालयहरूले पनि कार्यक्रम सञ्चालनको अनुगमन र समन्वयमा सहयोग गर्दछन् ।

शिक्षा मन्त्रालयअन्तर्गत केन्द्रीय स्तरमा एस. एल. सी. परीक्षाको व्यवस्थापनका लागि परीक्षा नियन्त्रण कार्यालय, पाठ्यक्रम पाठ्यपुस्तक विकास र परिमार्जनका लागि पाठ्यक्रम विकास केन्द्र, अनौपचारिक शिक्षा कार्यक्रम सञ्चालन र व्यवस्थापनका लागि अनौपचारिक शिक्षा केन्द्र, शिक्षकहरूको अभिलेख व्यवस्थापनका लागि शिक्षक किताबखाना र विद्यालय शिक्षाको गुणस्तर परीक्षण गरी सुझाव दिन शैक्षिक परीक्षण केन्द्र रहेका छन्।

उच्च माध्यमिक तहको सम्बन्धन प्रदान गर्ने र परीक्षा सञ्चातन गर्ने कार्य उच्च माध्यमिक शिक्षा परिषद्वाट भइरहेकोछ भने प्राविधिक शिक्षा तथा व्यवसायिक तालिमका कार्यक्रमहरू (विश्वविद्यालयका कार्यक्रमहरू बाहेक), जसअन्तर्गत छोटो अवधिको तालिम, प्राविधिक प्रवेशिका र ठिप्लोमा तहका कार्यक्रमहरू सञ्चालन र सीप परीक्षण गर्ने कार्य प्राविधिक शिक्षा तथा व्यवसायिक तालिम परिषद् मार्फन् भइरहेको छ ।

शिक्षा मन्त्रालयअन्तर्गत दुईओटा केन्द्रीय पुस्तकालयहरू (राष्ट्रिय पुस्तकालय र केशर पुस्तकालय) र एउटा स्वायत्त पुस्तकालय (ठिल्लीरमण–कल्याणी रेग्मी स्मारक पुस्तकालय) सञ्चालनमा रहेका छन् । शिक्षा मन्त्रालयअन्तर्गत पाठ्यपुस्तकहरू छपाइ र वितरणका लागि सरकारी स्वामिलसहितको संस्थान जनक शिक्षा सामग्री केन्द्र रहेको छ ।

fig: Organization Page

Conclusion

In conclusion, the development and implementation of the Ministry of Education website have successfully addressed the challenges and limitations of accessing educational information and services. Through the creation of a user-friendly platform, the website has significantly improved citizens' ability to navigate and find the information they seek with ease.

Throughout the project, key objectives were achieved, including the provision of comprehensive and up-to-date educational information, promoting transparency, and engaging citizens through feedback mechanisms. By offering a centralized repository of educational policies, curriculum guidelines, scholarships, and initiatives, the website has empowered citizens to make informed decisions and stay updated on the latest developments in the education sector.

The future scope of the Ministry of Education website is promising, with possibilities for further enhancements such as personalized user experiences, interactive learning resources, and expanded engagement features. These advancements can revolutionize the way citizens interact with educational services, fostering a more inclusive and participatory approach to education.

The Ministry of Education website project has successfully achieved its objectives of developing a user-friendly platform that ensures easy access to educational information, informing citizens about policies and initiatives, and incorporating mechanisms for citizen feedback. As the education landscape continues to evolve, the website will play a crucial role in facilitating communication, fostering transparency, and enabling a collaborative educational ecosystem.

Overall, the Ministry of Education website stands as a testament to the power of technology in transforming governance and education. It has laid the foundation for a more accessible, transparent, and citizen-centric education system, with immense potential for future growth and innovation.

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