NERISTConnect

A PROJECT REPORT

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Submitted by:

Priyanshu Pandey **(D/21/CS/110)**

Rajneesh Kumar Yadav **(D/21/CS/120)**

Guided by:

Mr. Yogendra Mohan

Assistant Professor

Department of Computer Science and Engineering

NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

NIRJULI, ARUNACHAL PRADESH

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Abstract

NERISTConnect is a web-based platform designed to streamline communication and administrative processes for the students and faculty of the North Eastern Regional Institute of Science and Technology (NERIST). The application provides a centralized solution for managing tasks such as complaint submission, certificate applications, grade card requests, and leave applications for faculty, eliminating the need for manual paperwork.

The project emphasizes user-friendly design and efficient backend functionality, ensuring smooth interaction for all users. Built with modern web technologies, NERISTConnect integrates features like secure login systems, dynamic content management, and real-time request tracking to enhance user experience and transparency in administrative workflows.

NERISTConnect demonstrates how technology can simplify routine tasks and foster a digitally connected academic environment. A key feature of NERISTConnect is its admin module, which serves as the backbone of the platform. The admin module is designed to handle the backend operations, including user management, complaint resolution tracking, request approvals, and maintaining the integrity of the system. Administrators have access to advanced tools for monitoring and managing the workflow, ensuring transparency and efficiency across the system.

The development of the website followed a systematic approach, ©©ing requirement analysis, design, implementation, testing and deployment. PostgreSQL scalability, Express.js and Node.js' strong server-side capabilities, and dynamic user interface were integral to building the platform. The final product provides a secure and efficient experience for users and comprehensive management tools for admins.

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CHAPTER 1

INTRODUCTION

1.1 Facility Management System

A facility management system at the college/university is an online portal wherein students as well as faculty members interact with the academic and administrative processes as well as services through the Internet. The entire system can lessen and simplify the academic and administrative duties through a centralised platform's access to the Internet.

The application enables students to access and manage services such as complaint submissions, certificate applications, grade card requests, and many more. Faculty members can apply for leave and handle administrative tasks without the need for manual paperwork. Additionally, administrators can effectively oversee operations through a dedicated admin panel, which includes tools for user management, request approvals and workflow tracking.

This platform strengthens the purpose of making things transparent, making things efficient, and decreasing time-consuming manual processes and creates a digitally connected and integrated academic and administrative environment for all stakeholders. Hence, transforming college administration into a speedy, efficient, and digital-first experience. The platform offers real-time notifications, a user-friendly interface, and potential for exciting features.

The facility Management System aims to digitally create a connected academic environment, reducing administrative bottlenecks and focusing on user satisfaction, where technology acts as a agent for the institution's excellence. Indeed, this initiative is aligned with the wider goal of capturing the digital transformation of education.

This project has the speciality of reducing the heavily reliant academic and administrative physical paperwork which leads to inefficiencies, delays and increased workload for both staff and users. Our goal is to build a platform that will help both the students and faculties by giving modules on their fingertips.