Review On: Campus Portal System

Rutvej Mane[1], Prof. Pradnya Patange[2], Rushikesh Naykodi[3], Saurabh Mitkari[4], PranitDeshmukh[5]

[1]Rutvej Mane, Department of Information Technology, G.S. Moze College of Engineering
[2]Prof. Pradnya Patange, Department of Information Technology, G.S. Moze College of Engineering.
[3]Rushikesh Naykodi, Department of Information Technology, G.S. Moze College of Engineering
[4]Saurabh Mitkari, Department of Information Technology, G.S. Moze College of Engineering
[5]Pranit Deshmukh, Department of Information Technology, G.S. Moze College of Engineering

ABSTRACT

In the realm of educational institutions, the implementation of Campus Portal Systems (CPS) has revolutionized administrative processes, particularly in managing student information. This survey paper presents a comprehensive overview of CPS, focusing on its centralized system controls and its pivotal role in handling, tracking, storing, and organizing student details and academic records according to institutional requirements.The paper begins by elucidating the fundamental concept and significance of CPS in modern educational environments, emphasizing its ability to streamline administrative tasks and enhance communication between stakeholders. It explores the core functionalities of CPS, including centralized data storage, user authentication, access control, and data retrieval mechanisms.Furthermore, the survey delves into the diverse features and capabilities offered by CPS, such as student profile management, grade tracking, etc. It examines the integration of various modules within CPS to create a cohesive and efficient system for managing student information throughout their academic journey.

KEYWORDS: Interdepartmental Connectivity , Integrated Communication Platform, Academic-Industry Collaboration, Unified Campus Engagement

INTRODUCTION

In the contemporary educational landscape, the integration of technology has become imperative to streamline administrative processes, enhance communication channels, and facilitate academic progression. Recognizing this need, the Campus Portal System emerges as a comprehensive solution aimed at revolutionizing the traditional campus management approach.

The Campus Portal System serves as a centralized platform catering to the diverse stakeholders within an educational institution, including administrators, Heads of Departments (HODs), faculty members, and students. This system leverages advanced technological capabilities to store, manage, and maintain crucial student data, academic records, and performance metrics securely.

Authentication mechanisms are meticulously implemented within the system to ensure authorized access, safeguarding sensitive information while promoting transparency and accountability. Through personalized login credentials, each user entity gains access to tailored features and functionalities, fostering a seamless user experience.

One of the pivotal functionalities of the Campus Portal System is its integration of student and teacher and HOD together. Through this interface student can request their registration which will be approved by teacher or class teacher. Similarly teacher registration request can be approved by HOD /Head of Department of teachers department. If HOD resigns he/she can assign other teacher as a HOD . An independent registration of HOD can similarly raise request to admin which will be approved by admin or denied by him/her

Furthermore, the system employs data analytics to analyze and evaluate student data comprehensively. By scrutinizing academic performance, extracurricular involvement, and skill sets, the system identifies and shortlists candidates who align

closely with the requirements of prospective employers. Through automated notifications, eligible students are promptly notified of relevant opportunities, empowering them to make informed decisions regarding their career trajectory.

In essence, the Campus Portal System transcends conventional campus management paradigms by fostering collaboration, enhancing transparency, and catalyzing career development initiatives. By amalgamating cutting-edge technology with robust administrative functionalities, this project endeavors to redefine the educational experience, equipping students with the tools and resources necessary to thrive in an increasingly competitive global landscape.

BODY OF PAPER

2.1 Motivation

The motivation behind the development of the Campus Portal System arises from the imperative to modernize administrative processes and bridge communication gaps within educational institutions. In today's rapidly evolving educational landscape, traditional administrative methods struggle to keep pace with technological advancements, resulting in inefficiencies and communication barriers. Recognizing these challenges, the Campus Portal System seeks to streamline administrative tasks, enhance communication channels, and facilitate seamless interaction among stakeholders including administrators, faculty, and students. Moreover, the system addresses the growing demand for career readiness by integrating with corporate entities to provide students with access to job opportunities and internships. By leveraging technology as an enabler of transformation, the Campus Portal System aims to empower educational institutions to adapt to the demands of the digital age and better prepare students for success in an increasingly competitive global environment.

2.2   Project Description

The Unified Campus Portal System is a transformative web-based platform poised to revolutionize academic communication and management within educational institutions. At its core, the system aims to seamlessly integrate diverse stakeholders, streamline administrative processes, and optimize student engagement through advanced technological solutions.

User-Centric Approach:

The project commences with a user-centric approach, prioritizing a smooth and intuitive registration process. Students, teachers, and Heads of Departments (HODs) create personalized credentials, ensuring secure access to the portal. Upon login, users are greeted with tailored dashboards, meticulously crafted to meet the specific needs and responsibilities of their roles within the institution.

Comprehensive Integration:

A cornerstone of the Unified Campus Portal System is its ability to integrate various entities within the educational ecosystem. From administrators wielding overarching control to HODs overseeing departmental activities, each stakeholder benefits from a centralized platform. This integration facilitates efficient management of career development initiatives, fostering collaboration and transparency across departments.

Centralized Student Profiles:

A pivotal feature of the system is its centralized repository for student profiles, housing comprehensive information encompassing academic performance, and more. Robust security measures, including multi-factor authentication, ensure the confidentiality and integrity of sensitive data, instilling confidence in users regarding data privacy.

Tailored Role-Specific Experiences:

The Unified Campus Portal System offers tailored experiences tailored to the roles and responsibilities of users. Administrators wield powerful tools to manage system configurations and oversee operations, while HODs coordinate course offerings and faculty resources within their departments.

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Advanced Authentication and Data Security:

Stringent authentication mechanisms and robust data security protocols underpin the system, safeguarding user privacy and sensitive information. Customizable dashboards provide users with personalized insights, notifications, and actionable data, enhancing productivity and user experience.
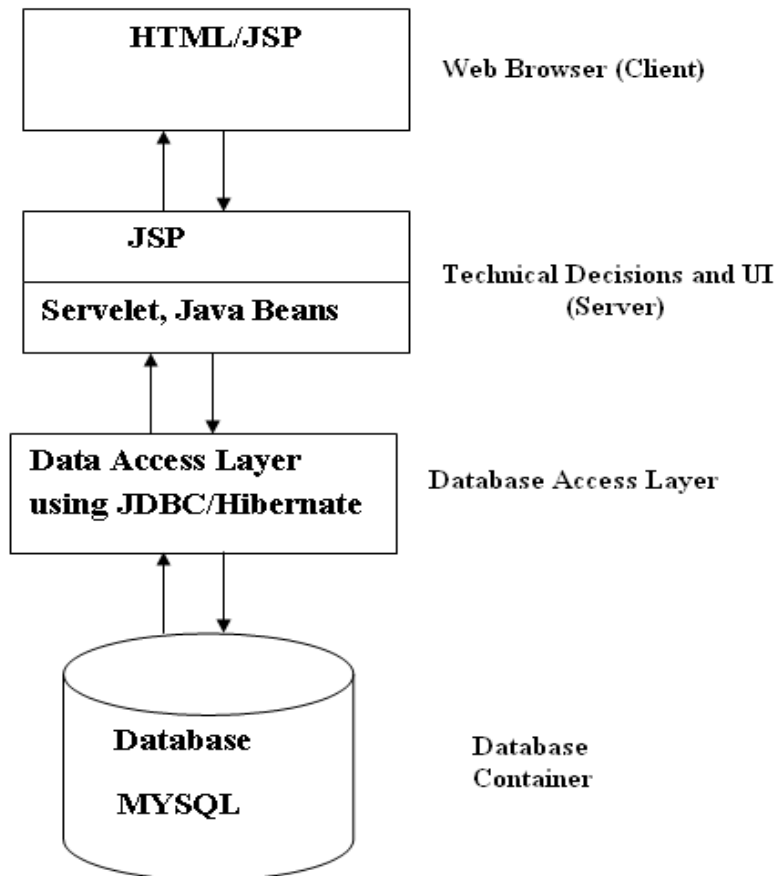
Notification through mail:

Everyone will receive notification through mail. Use of smtp mail protocol provides this facility.

In essence,the Unified Campus Portal System represents a forward-thinking solution poised to redefine academic management and communication within educational institutions. By seamlessly integrating stakeholders, streamlining administrative processes, and prioritizing data security, the project endeavors to enhance transparency, collaboration, and student success in the digital age.
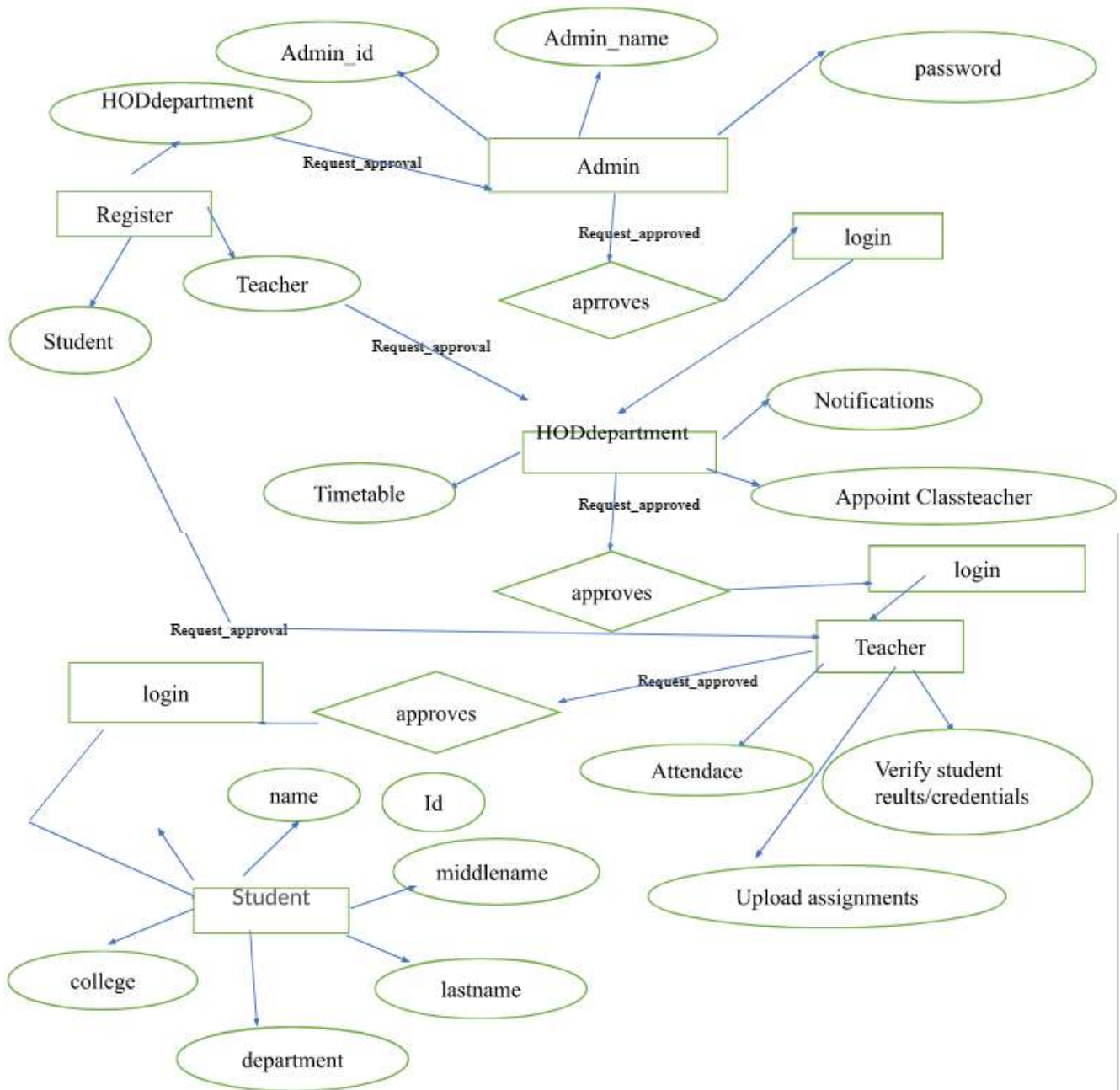
2.3 Technologies used

1   Operating System: Windows 10
2   IDE: Eclipse IDE
3   Programming Language : Java & Advance Java Framework,springboot,JdbcTemplate,MySql.
4   Web-Application

2.4 System Architecture :

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2.5 Entity Relation Diagram

ALGORITHM

1. Receive user credentials (username, password) from the login page.
2. Validate the credentials against the database records.
 - If credentials are invalid, display an error message and prompt the user to retry.
 - If credentials are valid, proceed to step 3.

3. Determine the user's role (administrator, HOD, Teacher, student, etc.).
4. Redirect the user to the corresponding dashboard based on their role.
- Administrators access an admin dashboard with system configuration and oversight tools.
- HOD can accesss a dashboard with interaction of teacher and course management.
- Teacher members access a dashboard with course management and student interaction features.

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- Students access a dashboard with academic information, course registration, and career services.
- Other roles (HODs, TEACHERs) access relevant dashboards with specialized functionalities.

5. Display the dashboard interface with personalized content and features.
6. End.

LITERATURE SURVEY

Information Portal System For A Digital Campus Based On Information Architecture

- The paper provides solution to information storage.
- This paper brief about how data should be arranged in campus portal system.
- Storage of data of different parts of system by organising them ex. Students data in student section
- Anubha Jain Department of Computer Science & IT The IIS University Jaipur, India anubha.jain@iisuniv.ac.in
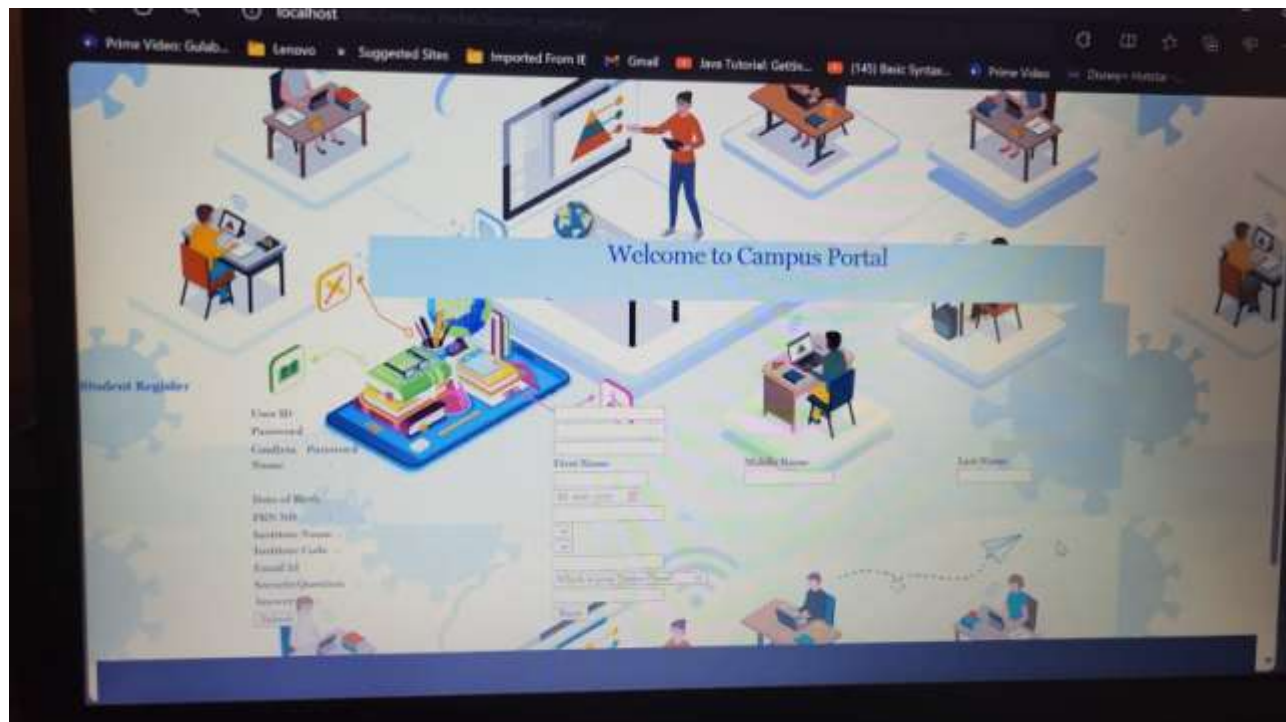- 2013 IEEE International conference in MOOC ,Innovation and Technology in Education(MITE)
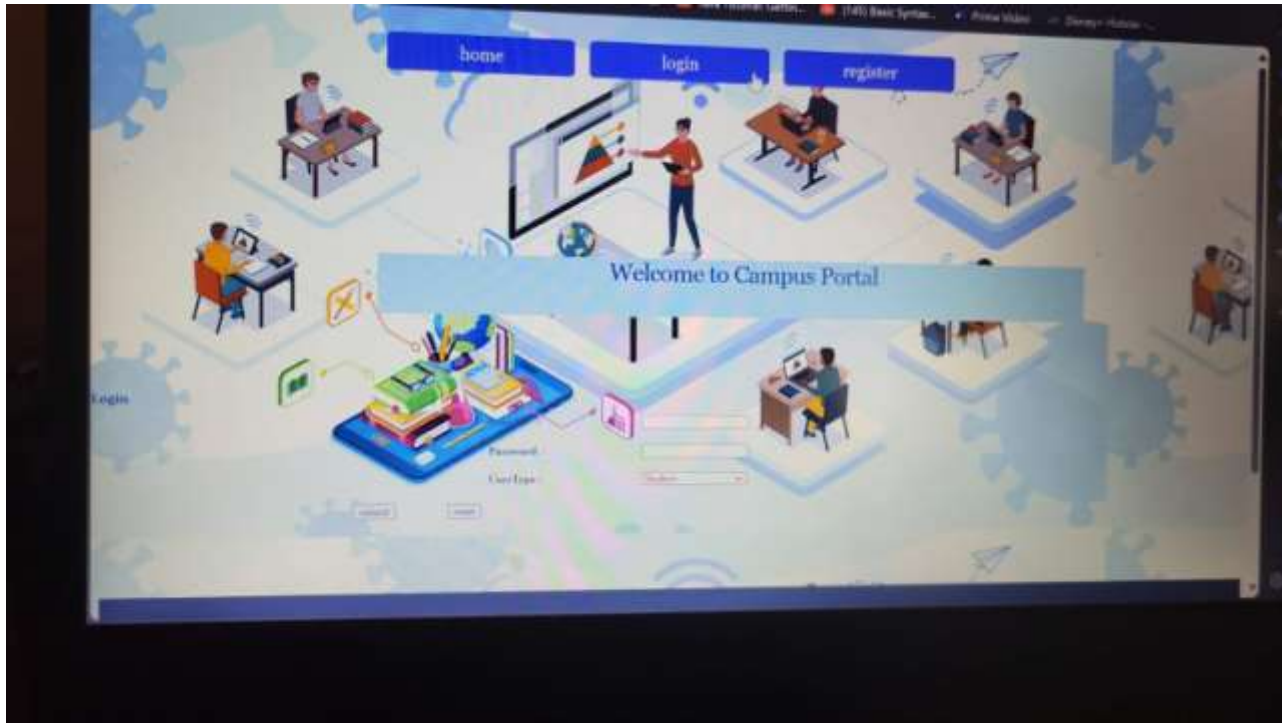
RESULT

1.Home PAGE
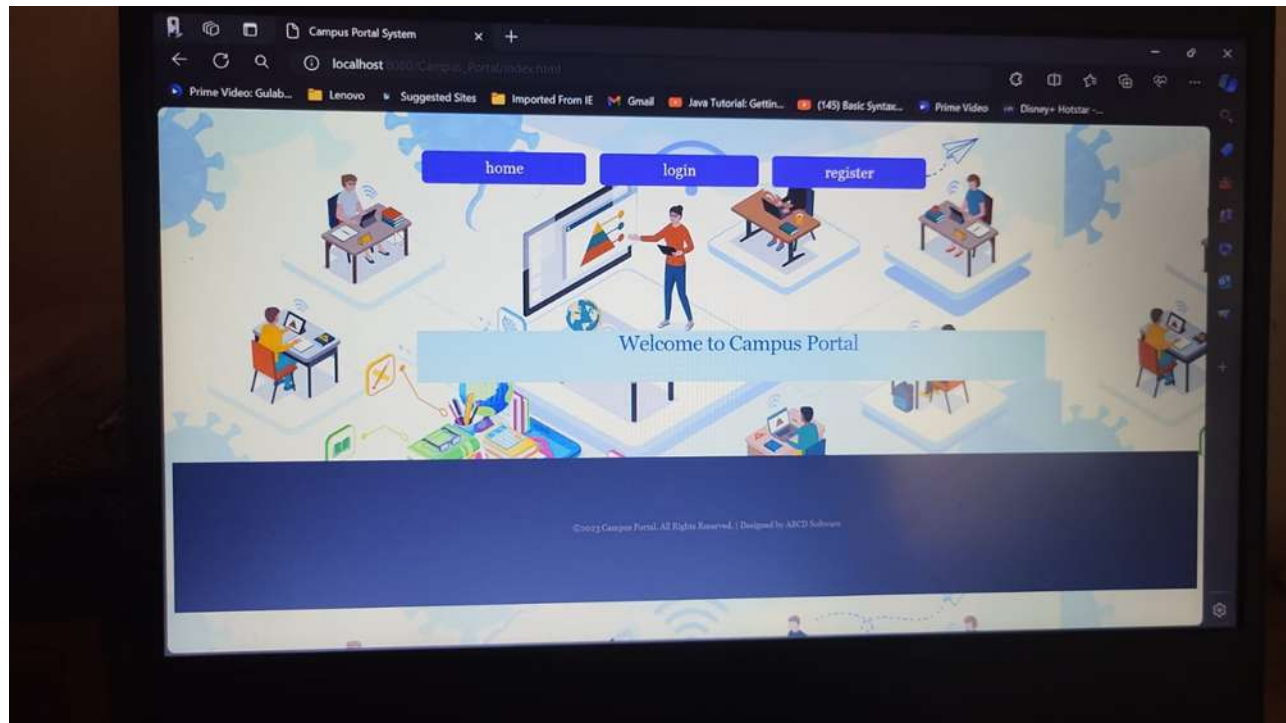
2.REGISTRATION PAGE
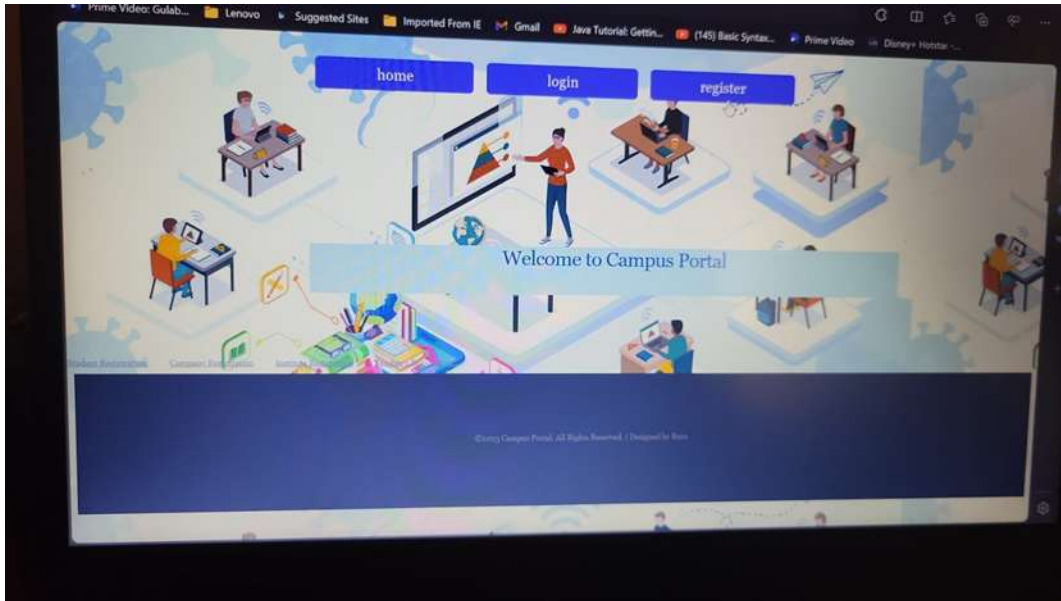
3.STUDENT REGISTRATION

4.LOGIN PAG

CONCLUSION

[1] The Campus Portal System transcends traditional campus management practices by fostering collaboration, transparency, and career development opportunities. Through advanced technology and robust administrative functionalities, the system aims to redefine the educational experience, equipping students with the tools and resources necessary for success in a competitive global landscape.

[2] It streamlines processes, enhances communication, and boosts academic performance. Through secure access and integration with corporates, it opens doors to career opportunities for students. With advanced analytics, it ensures efficient talent matching. Overall, it revolutionizes the educational experience by promoting collaboration, transparency, and student success.

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