



Babu Banarasi Das Engineering College, Lucknow
[AKTU College Code 508]

**College
ERP
System**

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Introduction

Welcome to our presentation on the College ERP System project. This comprehensive system is a powerful tool designed to revolutionize the way educational institutions manage their operations. In this presentation, we will delve into the key features and benefits of our system, demonstrating how it simplifies student and staff management, enhances communication, and provides valuable insights into college operations. Let's embark on this journey to explore the future of education administration.





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Technology Used

HTML



CSS



django



JavaScript



python™



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Key Features of College ERP System

1

Student Information Management

Efficiently manage student records, admissions, attendance, and grades.

2

Academic Course Management

Streamline curriculum planning, scheduling, and grading.

3

Financial Management

Track fees, manage accounts, and generate financial reports.

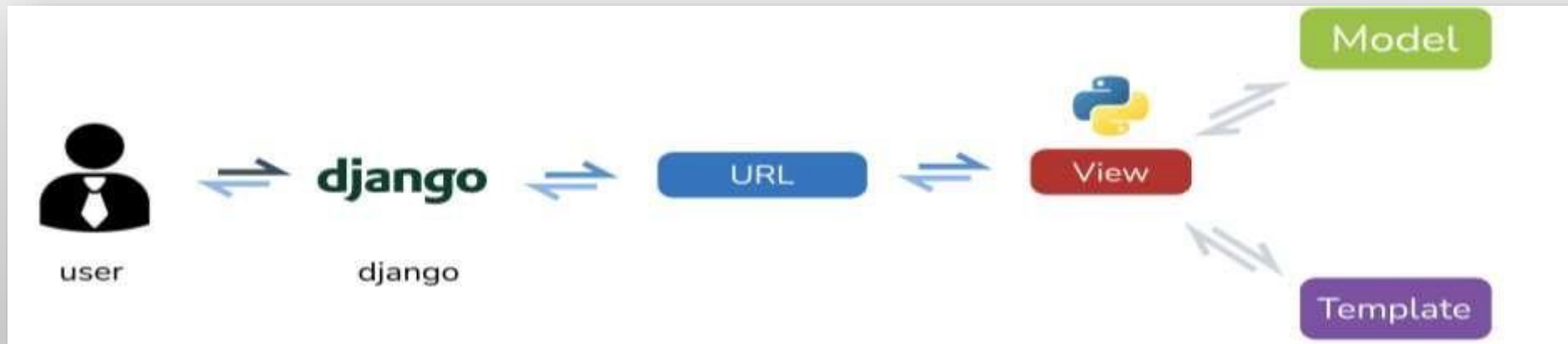
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Human Resource Management

Automate HR processes like payroll, leave management, and performance evaluations

Architecture

- The College Management System project is built on a robust and scalable architecture.
- It leverages the Django web framework, known for its versatility and security.
- The project follows a structured Model-View-Template (MVT) architectural pattern for efficient development.
- Model (M): Handles data and database operations.
- View (V): Manages user interface logic and requests.
- Template (T): Defines HTML page structure and presentation.





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Overview Of College ERP System

Communication and Collaboration

The ERP system facilitates instant communication and collaboration between teachers, students, parents, and administrators, enabling the sharing of important information and events efficiently. The integrated messaging system is an essential part of the system, notifying all relevant parties immediately.

Core Modules

ERP system expands core modules including student management, faculty management, course management, attendance tracking, examination management. The ERP system functions seamlessly on the administration level while improving overall operations on campus.

Analytics and Reports

ERP system, the administration level can access student performance analysis, faculty reports, and course analysis to evaluate their success in achieving organizational goals. Efficient and readily available data also increases transparency across departments and individual roles.



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Features and Modules

**STAFF
LOGIN**



Apply for leave

Student Attendance

Send Notice to Student

Staff Profile

**HOD LOGIN
(Admin)**



Manage Students

Manage Staff

Send Notification

View Attendance Report

Manage Subject & Courses

**STUDENTS
LOGIN**



Apply for leave

Student Profile

Feedback

See Notification



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Student Management

Student Dashboard



View academic progress

Check course schedule

Send and receive messages
from teachers and staff

Management Tools



Class schedules

Online attendance tracking

Examination management
and grade tracking

Personal Profile



Update personal and
emergency contact information

Pay tuition and fees online

Request official documents
like transcripts and report
cards

Faculty Management



Efficient Course Management

ERP system's advanced course management feature helps faculty members to easily assign coursework and tasks. It automates routine tasks, such as grading and grade recording, freeing up time for innovative lesson delivery.



Collaborative Learning Approach

The ERP system encourages the use of the latest educational resources, helps faculty in the creation of digital content, enhances communication between teachers and students.



Office Hours and Support

Dedicated tools allow faculty to easily manage their office hours, making it easier for students to access the support they need when they need it. The ERP system is designed to enable an online presence for faculty to conduct meetings remotely.

Course Management

A Innovative Courseware 🧐

ERP system offers standard tools for the creation of online course materials such as course documentation, video lectures, and other study resources. It is also simple to update and edit course material at any time.

B Integrated Tests and Quizzes 🔍

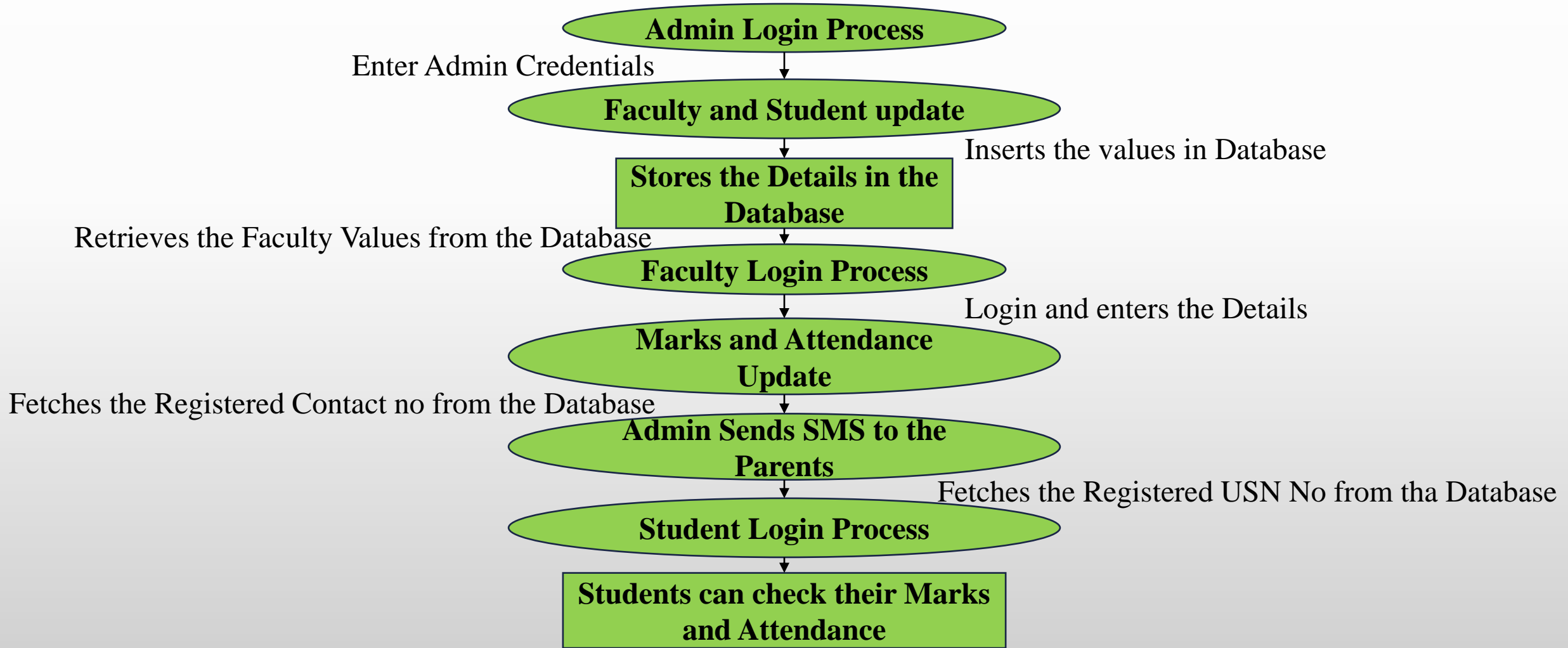
ERP system offers comprehensive test-design capabilities and automated correction. It provides statistics for the distribution of grades and subject matter, simplifying grading and other assessment-related tasks.

C Real-Time Information 📱

ERP system, precious student data is readily accessible to teachers. The system includes smart tools for measuring student development and tracking attendance, behavior, coursework, and other key metrics.



Dataflow Diagram





Literature Review

A literature review on College ERP systems using Python with the Django framework would typically explore various aspects of these systems, including their design, functionalities, implementation, and advantages. While I can't provide a full literature review due to text limitations, I can outline the key points and relevant research areas

Overview of College ERP Systems:

Start by discussing the importance of ERP systems in educational institutions, their role in streamlining operations, managing resources, and enhancing communication.

ERP Systems in Education:

Review existing literature on ERP systems specifically tailored for educational institutions, addressing their unique requirements such as student information management, course scheduling, grading, financial management, etc.

Challenges and Solutions:

Analyze the challenges faced in implementing college ERP systems and how Python with Django helps in addressing these challenges. Consider scalability, data security, user interface design, and integration with existing systems.

Challenges in Implementing and Maintaining an ERP System



Data Migration

Transferring existing data to the new system without discrepancies.



Training

Ensuring adequate training and support for staff to effectively use the ERP system.



Change Management

Addressing resistance and facilitating a smooth transition to the new system.



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Advantage

1. User-Friendly Interface
2. Efficient Information Management
3. Improved Communication
4. Streamlined Administrative Tasks
5. Mobile Support

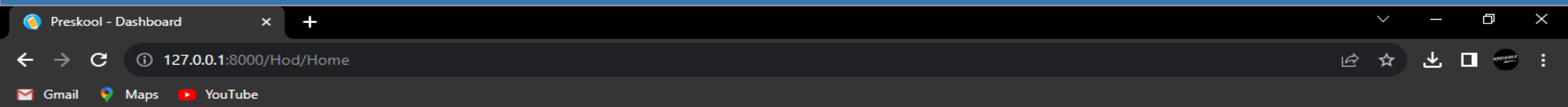
Future Scope

1. Automated Grading
2. Assessment Tracking
3. Course Planning
4. Course Recommendations
5. Scheduling
6. Student Performance Analytics
7. Predicting Student Outcomes
8. Automation of Administrative Tasks
9. Results



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Main Menu

Dashboard

Students

Staff

Course

Subjects

Session

Send Staff Notification

Send Student Notification

View Attendance

Staff Feedback

Welcome Abhishek Verma !

3

Students

1

Staff

3

Course

1

Subject

All Data

Number of Students

1 new notification



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Conclusion

In summary, a College ERP System using Django offers efficiency, transparency, and enhanced communication for educational institutions. It empowers data-driven decision-making, ensures security and compliance, and scales with the institution's growth. As we look ahead, embracing innovations like mobile apps, AI, and global accessibility will further revolutionize education. An ERP system is not just a tool; it's a catalyst for positive change in education, helping institutions focus on delivering quality education to prepare students for the future. Thank you for your attention, and we welcome your questions and feedback. Together, we shape the future of education.



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