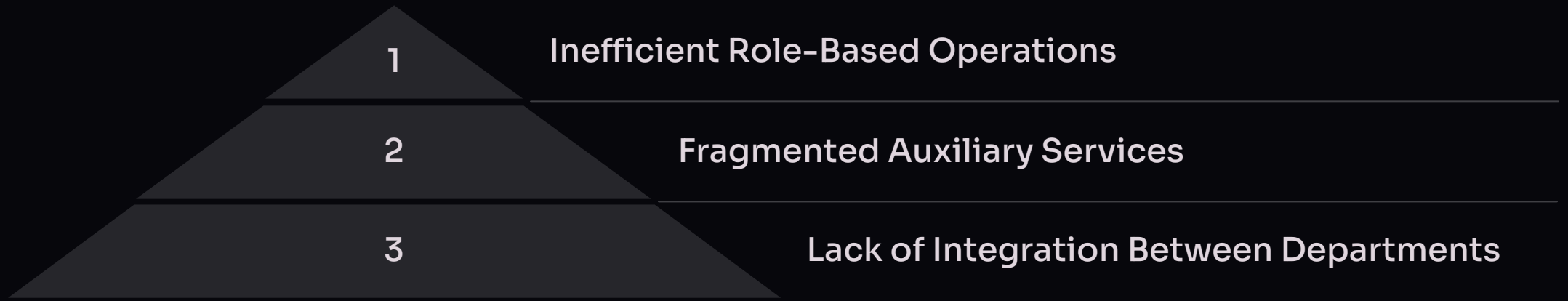


University Management System: Revolutionizing Campus Operations

Welcome to our presentation for INFO 5100 Application Engineering and Development. We're excited to introduce a comprehensive solution that will transform university management and enhance the campus experience for everyone.



Addressing Key Challenges in University Management



These challenges lead to communication delays, redundant tasks, and security vulnerabilities across the university ecosystem.



Impact on Stakeholders



Students

Face time-consuming registration and limited visibility into academic progress.



Professors and Staff

Struggle with manual tasks and maintaining accurate records.



Auxiliary Services

Experience poor service delivery and limited management capabilities.



Campus Safety

Deal with delayed emergency responses and inefficient security monitoring.



Introducing Our Integrated Solution

University System

Streamlines academic and administrative tasks, including class registration and grade management.

Medical facility System

Integrates medicine ordering and inventory management for health services provided by campus.

Banking Integration Module

Facilitates financial services, including tuition payments and refunds.

Security and Emergency Management

Enhances campus safety monitoring and enables real-time emergency communication.

Technical Implementation Overview

Frontend

Java Swing for a user-friendly desktop application interface.

Backend

MySQL Database for secure and centralized data management.

I

Role-Based Access Control (RBAC)

1 CBI and Emergency Responders

2 Bank Employees

3 Pharmacy Employees

4 University Staff

5 Professors

6 Students

Each role has a customized interface with specific functionalities, enhancing data security and user experience.

Ecosystem Flow: A Day in the Life

1

Student Class Registration

Course selection with automatic data synchronization.

2

Grade Management

Direct grade input by professors with instant student access.

3

Pharmacy Management

Integrated medicine ordering and inventory tracking.

4

Banking Transactions

Seamless online payment processing and refund management.

5

Security Incident Handling

Centralized incident logging with automated alert distribution.



Key Benefits and Future Potential

Centralized Management

Streamlines operations and improves efficiency across all departments.

Enhanced User Experience

Provides intuitive interfaces tailored to each user role.

Scalable Modular Design

Allows for easy integration of new features and technologies.

Improved Security and Communication

Ensures data protection and facilitates seamless information exchange.

Meet the Project Team

Shubham Bagwe

002057120

Aditi Maurya

002331637

Soham Chavan

002307796

Ananya Maurya

002338247

Team INFO 5100 - Application Engineering and Development

Project Completion: November 24th, 2024

Thank You for Your Attention

We're excited about the potential of our University Management System to transform campus operations. We welcome your questions and feedback.

4

Key Modules

Integrated systems for comprehensive university management.

6

User Roles

Tailored access and functionality for all stakeholders.

5

Process Steps

Streamlined ecosystem flow for daily university operations.

