

Project Report: College Admission Management System

Objective

The primary objective of this project is to develop a digital College Admission Management System that supports student registration, course allocation, and generation of merit lists based on academic performance. The system simplifies administrative processes and ensures data integrity through structured database management.

Introduction

This project titled 'College Admission Management System' is developed using Java Swing for GUI and MySQL for backend database. The system is designed to manage and streamline the student admission process in educational institutions. It provides an interface for students, administrators, and staff to handle admissions, courses, documents, payments, and more.

Abstract

The College Admission Management System is a desktop-based Java application that automates and simplifies the entire process of student registration, course enrollment, admission tracking, document management, and fee payment. This system minimizes paperwork, reduces manual errors, and improves accessibility and record-keeping efficiency. All the user interfaces are built using Java Swing (AWT/JFrame), and database connectivity is achieved through JDBC with MySQL as the backend.

Tools & Technologies Used

- Programming Language: Java
- GUI: Java Swing (AWT, JFrame)
- Database: MySQL
- Database Connectivity: JDBC
- IDE: Eclipse
- Package Structure: collegeadmission.com

Database Tables

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1. admin
2. admission_form
3. amount
4. course
5. documents
6. payment
7. students

Modules/Forms

1. StudentForm.java - For student registration with photo, marks, contact info
2. AdmissionForm.java - For handling application and admission status
3. DocumentForm.java - For document upload, browse, update, open, and delete
4. AmountForm.java - For entering amount-related info
5. Payment.java - For managing fee payment with various modes
6. CourseForm.java - For adding course data
7. AdminForm.java - For admin registration
8. LoginForm.java - For admin authentication
9. Dashboard.java - Main control panel with access to all modules
10. DBConnection.java - For database connection setup

Key Features

- Student Registration with full details and photo upload
- Course Management and allocation to students
- Admission Form with application status tracking (Pending, Approved, Rejected)
- Document upload and management
- Payment and Amount management with multiple payment modes
- Merit List generation based on percentage
- Search student by Name, Email, Student ID, or Course ID
- Export Data to PDF and Print
- Admin Login with secure access

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- Modular, user-friendly GUI design

Conclusion

This project provides an efficient and organized system for managing college admissions digitally. It simplifies the workflow for students and administrators alike. With its rich set of features and easy-to-use GUI, it can be an effective solution for small to medium-sized educational institutions. This project helped enhance my Java programming, database management, and GUI design skills significantly.