

Project Proposal on Student Records System

Id: 221-35-966

Project Overview

Objectives

Features

Technologies

Conclusion

<input type="checkbox"/>	Project Overview	The Student Records System is a console-based application designed to manage student information and user authentication. The system allows users to register, log in, and perform various operations related to student records, such as adding, displaying, searching, and deleting student information.
<input type="checkbox"/>	Objectives	User Registration and Authentication: Allow users to register by providing a username and password. Implement a login system to authenticate users. Student Information Management: Enable users to add student information, including name, roll number, and marks. Display a list of students with their details in a tabular format. Allow users to search for a student by roll number. Provide functionality to delete a student's information.
<input type="checkbox"/>	Features	User Registration: Users can register by entering a username and password. User registration is stored in an array, allowing multiple users. User Authentication: Users can log in by providing their username and password. Authentication is performed by comparing entered credentials with registered users. Student Information Management: Students' information (name, roll number, and marks) is stored in an array. Users can add new students, view a list of all students, search for a student, and delete a student. Data Validation: Implement basic validation to ensure data entered is within acceptable ranges. For example, validate that the roll number is a positive integer, and marks are within the valid range
<input type="checkbox"/>	Technologies	Programming Language: Java Development Environment: Visual Studio Version Control: GitHub
<input type="checkbox"/>	Conclusion	The Student Records System aims to provide a simple yet effective platform for managing student information. This project will enhance skills in Java programming, user authentication, and data management.