

Project Overview

This project demonstrates a complete student management system implemented in C with role-based access control. The system allows different user roles (Admin, Staff, Guest) to perform specific operations on student records stored in text files.

User Roles

The system supports three distinct user roles with different permissions:

- **Admin:** Full access to all operations
- **Staff:** Can add, view, search, and update students
- **Guest:** Can only view and search students

Data Storage

The system uses text files for data persistence:

- **credentials.txt:** Stores user login information
- **students.txt:** Stores student records

Key Features

- Secure login system
- Role-based access control
- CRUD operations on student records
- File-based data persistence
- Simple console interface