

## 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