


Student Grade Management System

ASSET, ALMAS, OLZHAS

Why This Topic Was Chosen


- Student academic performance is a key factor in education systems.
 - Many universities lack simple digital tools to manage student grades efficiently.
 - This project provides a lightweight, easy-to-use solution for tracking student grades.
 - Helps students and teachers quickly access and manage records without complex software.
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Similar Projects in Kazakhstan

- Universities use online student portals (e.g., Platonus, Moodle).
 - These platforms focus on grading but are complex and require internet access.
 - Unique Factor: This project is a small, offline, simple-to-use system designed for quick student management.
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WHAT IS THIS PROJECT AND HOW DOES IT WORK?

- A console-based system to manage student grades.
 - Allows users to add, view, search, and delete student records.
 - Uses C++ vectors to store student data dynamically.
 - Displays a menu system for user interaction.
 - User enters choices to perform different operations.
 - Data is stored temporarily (lost when the program exits).
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Project Auditory

Who can use this system?

- University and college students to track their own grades.
 - Teachers and professors to manage small class records.
 - Schools without internet-based grading systems.
 - Beginners learning C++ programming who need a real-world project.
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Project Features

- User-friendly Console Interface → Simple menu-based navigation.
 - Efficient Storage → Uses `vector<Student>` for fast operations.
 - Essential Functions:
 - ✓ Add student records.
 - ✓ View all students.
 - ✓ Search for a student by ID.
 - ✓ Delete student records.
 - Future Enhancements:
 - Add file storage for permanent records.
 - Include a grade analysis tool (average, top performers).
 - Implement a graphical user interface (GUI) for easier use.
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