

Student Record Management System - Java Project

Project Title

Student Record Management System - Java Console Application

Project Overview

This is a beginner-level Java console project designed to perform basic CRUD operations (Create, Read, Update, Delete) for managing student records.

It uses file handling to store data persistently in a `students.txt` file.

Features

- Add Student - Enter name, roll number, and course.
- View Students - Display all student records.
- Update Student - Modify student details using roll number.
- Delete Student - Remove a student record permanently.
- Data Persistence - All data is saved in a local `students.txt` file using file I/O.

Technologies Used

- Java (Core)
- File Handling
- Object-Oriented Programming (OOP)
- Console Input/Output

How to Run the Project

1. Open terminal or command prompt

2. Compile the code:

```
javac StudentRecordManager.java
```

3. Run the program:

```
java StudentRecordManager
```

Note: A file named `students.txt` will be automatically created to store data.

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Project Structure

StudentRecordManager.java - Main Java source file

students.txt - Data file created at runtime

README.md - Project documentation

Future Improvements

- Add GUI using Java Swing or JavaFX.
- Replace `.txt` file with MySQL or SQLite database.
- Implement login system (admin/user roles).
- Add search & filter functionality.

Contact

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GitHub Repository

<https://github.com/saxenapriyansh-codes/student-record-manager>