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| CSV Reader (Class) | |
| Read and store data from the CSV file. |  |

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| CSV Writer (Responsibilities) (Collaborators) | |
| Write data to the CSV file. | CSVReader  Course  Module |

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| Admin | |
| Administrator login  Selection and execution of different operations.  Management of students, teachers, courses, and administrators. | CSVReader  Student  Teacher  Course  Result |

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| Course | |
| View, add, modify and delete data for courses and course modules. | CSVReader  CSVWriter  Module |

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| CourseManager | |
| Merge student and course data. | CSVReader |

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| Module | |
| Manage module data. |  |

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| Result | |
| Enter student grades.  Convert scores to grades.  Calculate QCA.  Generate student transcripts. |  |

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| Student | |
| Student Login.  Store data of students.  View, add, modify and delete data for students.  View student course and module information. | CSVReader  CSVWriter  Course |

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| StudentResult | |
| Run the system.  Initiate student login, teacher login, and administrator login processes.  Initialize and generate student records.  Control the display and selection of the system menu.  Handle user input and command selection. | CSVReader  CSVWriter  Admin  Student  Teacher  CourseManager |

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| StudentResultSystem | |
| launching the system.  Create and run the StudentResult. | StudentResult |

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| Teacher | |
| Teacher Login.  Store data of teachers.  View, add, modify and delete data for teachers. | CSVReader  CSVWriter |