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| CLASS  **LMS Login Class** |
| RESPONSIBILITY   1. Take username from **Student Class** and compare it to user input. 2. Take password from **Student Class** and compare it to user input. 3. Take username from **Instructor Class** and compare it to user input. 4. Take password from **Instructor Class** and compare it to user input 5. Check if Instructor login mode is selected 6. Check if student login mode is selected 7. Grant access to the corresponding system by checking database files 8. Deny access to the corresponding system by checking database files 9. Display error messages |
| COLLABORATION   1. **Student Class** 2. **Instructor Class** |

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| CLASS  **Instructor Class** |
| RESPONSIBILITY   1. Send message to **Instructor Courses Class** to access the courses 2. Send message to **Student Info Class** to view the students enrolled in the course 3. Send message to **Grades Class** to view and edit the grades 4. Update the grades 5. Update the GPA from the **GPA class** |
| COLLABORATION   1. **Student class and its subclasses** 2. **Instructor Courses Class** (subclass) 3. **Student Info Class** (subclass) |

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| CLASS  **Student Class** |
| RESPONSIBILITY   1. Send message to **Student Courses Class** to access the courses 2. Send message to **Grades Class** to access the grades 3. Send message to **GPA Class** to access the estimated GPA |
| COLLABORATION   1. **Student Courses Class** (subclass) 2. **Grades Class** (subclass) 3. **GPA Class** (subclass) |