**Requirement Analysis Document**

Group Number: 9

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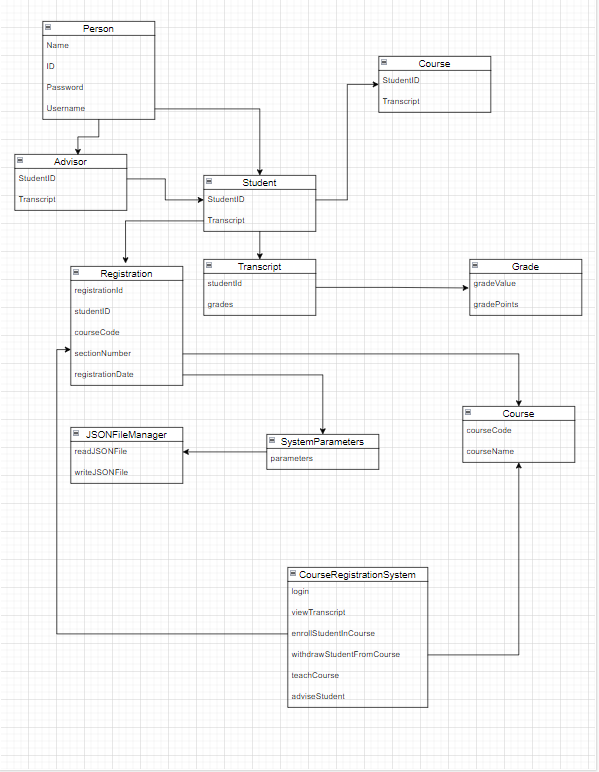
**DESCRIPTION**

**IMPORTANT CONCEPTS**

**LIST OF REQUIREMENTS**

|  |  |
| --- | --- |
| Functional Requirements | Non-Functional Requirements |
| Students and advisors should be able to log into the system with their assigned username and password. | Database operations should support |
| At least two roles should be defined for users in the system: Student and Advisor. It should be easy to add more roles for future requirements, such as Department Head, Admin, and Student Affairs | The system should be compatible with different devices |
| Students should be able to enroll in courses and advisors should be a able to approve students' course selections. | A user-friendly interface should be provided for users |
| Courses and programs available in the system should be viewable and selectable during the registration proces | Critical data should be regularly backed up to prevent data loss |
| Department registration rules should be defined and enforced in the system |  |
| Students should be able to select and register for courses |  |
| They should be able to view past courses and the number of credits they've earned |  |
| Students may need to submit a registration application before making course registrations |  |
| Advisors should have the authority to approve or disapprove students' course registrations |  |

**DOMAIN MODEL**

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**USE CASES**

Student enters into the system with their Username and Password. Student asks to take classes. The system checks if the class is viable to be taken. After this the Advisor is responsible for determining if the student can take the class. Either it is accepted or rejected.

**SYSTEM SEQUENCE DIAGRAM (SSD)**