

# Requirement Analysis Design

## 1. Description

Aim of this project is to basically design a university course registration system. Student registration system is a function in which students may enroll their courses virtually and courses are controlled by supervisors.

## 2. Developers

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## 3. Glossary

- **Student** : A person who applies with the system.
- **Course** : The things that students want to take.
- **Advisor** : A university staff that supervise the students
- **Main** : Test class of design
- **File Handler** : Writes the specific file.
- **Course Details** : Gives the information about the courses.
- **Lecturer** : Gives information about the lecturer of the courses.
- **Person** : Handles all the people in the university.
- **Java** : A programming language
- **Functional Requirement**: A feature that the system absolutely needs to have.

- **Non-Functional Requirement:** A condition that details the proper method the system should use.
- **JSON :** JSON is a text-based data format that is a simple replacement for XML, which is frequently used on the Web for data exchange.

## 4. Functional Requirements

- Students must be generated randomly by the system.
- The transcript file has to be read by the system.
- The system has to record anything in the transcript file.
- Transcript files must be created by the system.
- The names of the pupils must be generated randomly by the system.
- Prerequisites for courses should be under the authority of advisors.

## 5. Non - Functional Requirements

### Usability

- The system must produce accurate and simple-to-understand outputs and logs.

### Flexibility

- The system ought to have simple integration for new course additions.
- When new pupils are introduced, the system must be able to include them quickly.

## **Performance**

- Quick course checks should be performed by the system to identify which courses students.

## **Reliability**

- We'll test the project code to make sure it runs smoothly.

## **Data Integrity**

- JSON files will be used to store all course and student data.

## **Security**

- The student data that is stored in the system is private and shouldn't be disclosed. Consequently, the system cannot be accessed from the outside.

## **Maintainability**

- The system determines any potential mistakes and logs them in the appropriate places if they happen. Log files allow for the observation of all mistakes and outputs.

# **6. Domain Model**

