Assignment 1

Functional and Non-Functional Requirements in Databases:

Objective: Analyze a system to determine the necessary database requirements. For each system listed below, identify both the functional and non-functional requirements of the database.

Systems:

- Library System.
- Bank System.
- University System.
- Restaurant System.
- Supermarket System.
- ATM System.
- Job Boards System (Companies that offer job vacancies).
- Hospital System.
- Car Rental System.
- Hotel System.
- Nursery System.
- Clinics System.
- Food Delivery System.
- Real Estate System.
- Pharmacy System.

Instructions:

1. Select one system from the list.
2. Identify **at least 20 functional requirements** that the database should fulfill.
3. Identify **at least 5 non-functional requirements** for the database of the chosen system.
4. Provide a brief justification for each requirement based on the system's needs.

PLEASE NOTE THAT :

- This is an individual assignment, and each student is required to **work independently**.

- Requirements must be categorized using the **MOSCOW** technique and each requirement should have a unique **ID**.

- Note that you can refer to the Requirements lectures from the Software System Design course uploaded on the Moodle SW Eng Course.

- The Requirements Specs should be submitted in a **word** or **pdf file** and **uploaded to git/ git extension repository** that you create and will be used through the course.

- The Assignment Submission on Moodle should contain both **The file** and **the link to the Git repository**, you need to make sure that it is accessible by non-owners.