Exercise 3

**Aim:**  
Study Software Requirement Engineering. Create SRS for the current semester project.

**Project Title:**  
Expense Tracker Application

##### **Assumption:**

* Users are already registered.

##### **Requirement 1: Registration**

* **Req 1.1:** Register user details (admin)
  + **Input:** User details (external)
  + **Output:** Save details (internally)
* **Req 1.2:** Register members (admin)
  + **Input:** Member details
  + **Output:** Save details (internally)

**Requirement 2: Show information of admin.**

* **Req 2.1: User information**
* **Input:** User ID and password (internal)
* **Output:** Username, email, phone no., address, personal information
* **Req 2.2: Account information**
* **Input:** Account information
* **Output:** Name, date, personal information

**Requirement 3: Show information of user**

* **Req 3.1: User information**
* **Input:** User ID and password (internal)
* **Output:** Username, email, phone no., address, personal information, attendance
* **Req 3.2: Firm information**
* **Input:** Account information
* **Output:** Name, date, personal information, attendance
* **Requirement 4: Delete user (only by admin)**
* **Input:** Username and password (external)
* **Output:** Deletion status

**Requirement 5: Modification of the user attendance by admin**

* **Req 5.1: Marking daily attendance**
* **Input:** Username (external)
* **Output:** User status

**Requirement 6: View status of every user under admin control**

**Requirement 7: Managing the user according to their specific role**

**Requirement 8: Users are not allowed to make changes in some categories**

**Requirement 9: User can make changes in personal information**

* **Req 9.1: Add new changes when required**
* **Input:** New changes save (external)
* **Output:** Addition status
* **Req 9.2: Change the new details already present**
* **Input:** Changes to be updated (external)
* **Output:** Updating status

**Software Quality Attributes**

* **Accuracy:** The level of accuracy in the proposed system will be higher. All operations would be done correctly, and it ensures that whatever information is coming from the center is accurate.
* **Reliability:** The reliability of the system will be high due to the above-stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of the information.
* **No Redundancy:** In the system, the utmost care would be that no information is repeated anywhere in the storage. This would assure economic use of storage space and consistency in the data stored.
* **Immediate Retrieval of the Information:** The main objective of the system is to provide for a quick and efficient retrieval of information. Any type of information would be available whenever the user requires.

**Easy to Operate:**

The system should be easy to operate and should be such that it can be developed within a short period of time and fit within the limited budget of the user.

**External Interfaces**

1. **Hardware Interfaces:** All the components able to be executed on a personal computer with Androi OS and IOS. Following are some minimum hardware requirements for the system which will be compatible with the OS:

* Storage: 32GB
* RAM: 2GB
* Processor: Any since 2021 (Snapdragon, Mediatek)
* Wi-Fi Support

1. **Software Interfaces:** All the interfaces will be ASPX pages running within the Internet Browser. The system will be hosted in a web server, and languages and databases used are:

* Kotlin
* MongoDB
* OS: Android or IOS

1. **Connection Protocols and Interfaces:** This project can be compatible with all platforms. Connections to the system will be over TCP/IP connection. The project supports all types of web browsers.
2. **User Interface:** The user interface screen shall respond within 5 seconds.