SE2224 – Software System Analysis
Spring, 2022-2023
Assignment-2

1. **Write an appropriate example for each requirement category below.**
   A. What the business needs (business requirements);
   B. What the users need to do (user requirements);
   C. What the software should do (functional requirements);
   D. Characteristics the system should have (nonfunctional requirements); and
   E. How the system should be built (system requirements).

2.

Write the appropriate category from *one* of the categories,
- **Usability,**
- **Reliability (including robustness, safety, and security),**
- **Performance,**
- **Supportability (including maintainability and portability),**
- **Implementation.**

Quality requirements for SatWatch: Write the category of each requirement
- Any user who knows how to read a digital watch and understands international time zone abbreviations should be able to use SatWatch without the user manual.
- As the SatWatch has no buttons, no software faults requiring the resetting of the watch should occur.
- SatWatch should display the correct time zone within 5 minutes of the end of a GPS blackout period.

3.

Write the appropriate category from *one* of the categories,
- **Usability,**
- **Reliability (including robustness, safety, and security),**
- **Performance,**
- **Supportability (including maintainability and portability),**
- **Implementation,**
- **Interface.**
- How many hours should the system be available for use in a day?
- How should the system handle exceptions?
- What documentation should be provided to the user?
- What are the foreseen extensions to the system?

4. **Completeness of a requirement: How can the problems in the following requirements be fixed?**

Example-1:
- **Example of a bad requirement:** A professor user will log into the system by providing his username, password, and other relevant information.
- **Solution ?**

Example-2:
- **Requirement:** It is required to write a program that inputs two integers and outputs the maximum of them.
- **Solution ?**