

**Requirements and Specification, ESOF 328, Spring 2022**  
**The essential software requirement, Chapter 1**

1. For each of the following, tell the type of requirements information.

| Term                           |
|--------------------------------|
| Business requirement           |
| Business rule                  |
| Constraint                     |
| External interface requirement |
| Feature                        |
| Functional requirement         |
| Nonfunctional requirement      |
| Quality attribute              |
| System requirement             |
| User requirement               |

- a. As a passenger, I want to check in for a flight so I can board my airplane.
- b. The Passenger shall be able to print boarding passes for all flight segments for which he has checked in
- c. If the Passenger's profile does not indicate a seating preference, the reservation system shall assign a seat
- d. A tutorial, not integrated into the system, is needed to help new users get up to speed
- e. Increase non-US sales by 25 percent within 6 months.
- f. DVD discs and Blu-ray Discs are video items
- g. Video items may be checked out for one week at a time.
- h. No more than five experimental runs out of 1000 can be lost because of software failures.

- i. The user shall be able to re-sequence bookmarks.
- j. A patron may not renew an item that another patron has on hold
- k. Decrease input errors by 25%
- l. The system must interface with the commonly used reservation system SABRE
- m. The system be developed as a web service.
- n. The system shall run on Android and iOS devices.
- o. The system must respond to any flight search within 3 seconds.
- p. After the XML Parser has completely parsed a file, it shall produce an error report that contains the line number and text of any XML errors found in the parsed file and a description of each error found.
- q. All website images must include alternative text to be used by electronic reading devices to meet accessibility requirements of visually impaired users
- r. The user shall be able to modify a bookmark's name, URL, and description
- s. If the editor fails before the user saves the file, the editor shall be able to recover all changes made in the file being edited up to one minute prior to the failure the next time the same user starts the program.

2. Describe the difference between product and project requirements.