CPT203 Software Engineering 1 – 2022/2023

Week 4 Tutorial

1. What is the software requirement? What is Requirement Engineering?
2. Explain using your own words the difference between user requirement and system requirement.
3. Discover ambiguities or omissions in the following statement of requirements for part of a ticket-issuing system:
   * An automated ticket-issuing system sells rail tickets. Users select their destination and input a credit card and a personal identification number. The rail ticket is issued and their credit card account charged. When the user presses the start button, a menu display of potential destinations is activated, along with a message to the user to select a destination. Once a destination has been selected, users are requested to input their credit card. Its validity is checked and the user is then requested to input a personal identifier. When the credit transaction has been validated, the ticket is issued.
4. Explain using your own words the difference between functional requirement and non-functional requirement.
5. Write a set of non-functional requirements for the ticket-issuing system, setting out its expected reliability and response time.
6. What factors influence the completeness and accuracy of the software requirement? Explain your answer.
7. Describe in detail what is an Ethnography.
8. Write a structured specification of the requirement for a “cash-dispensing function in a bank ATM” using the below suggested format:

|  |  |
| --- | --- |
| Function name |  |
| Description |  |
| Main actor(s) |  |
| Pre-condition |  |
| Post-condition |  |
| Main scenario |  |
| Exception |  |