IT314: Software Engineering
Lab Session II – Project Understanding, Elicitation, Features

Prerequisites: Revisit the concepts taught to you in the lecture sessions about the requirement elicitation techniques and different ways of understanding the problem domain. Project have already assigned to the groups and all these activities will be performed in team.

Q1. For the project, you have chosen as a part of your Software Engineering course, you have to provide a detailed overview of the project description, scope of the project, assumptions, and possible features.

Answer the following questions: (and submit)

1. Identify all the stakeholders and users of the systems
2. List the various features exercised by each user of the system and describe all of them in detail.
3. Specify all the non-functional requirements for this system
4. Specify user interfaces for each user of the system
5. 'Open Issues'- issues those are identified but not taken care of

Q2. Choose one of the detailed functionality of your project, and explain it in detail.
FR. <Name of the functionality>
FR1.1. …
Descriptions
FR1.2. …
Descriptions and so on.

Identify the inconsistency, incompleteness, incorrectness and ambiguity in the functional specification. Specify each of the aspects separately, and then update the functional specification by appending all the identified omissions.

Documents to be submitted:

1. Functionality Description in a given format
2. Inconsistencies, incompleteness, incorrectness and ambiguity in the specification (each of them in a separate sub-section).
3. Update functional specification

Example:
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 with its cost. 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.

A Possible Solution:

- Can a customer buy several tickets for the same destination together or must they be bought one at a time?
- Can customers cancel a request if a mistake has been made?
- How should the system respond if an invalid card is input?
- What happens if customers try to put their card in before selecting a destination (as they would in ATM machines)?

- Must the user press the start button again if they wish to buy another ticket to a different destination?
- Should the system only sell tickets between the station where the machine is situated and direct connections or should it include all possible destinations?

If you have any doubt in understanding any of the two questions, or confusion in (or preparing) the SRS sections, ask TA's and instructor.

Beware of Plagiarism!!!