CSCI910 – Software Requirements, Specifications and Formal Methods

Tutorial 4

Objectives

- Get familiar with the fundamental concepts of software development
- Get familiar with the fundamental concepts of software requirement

Exercise 1 (Group Work):

Use the goal-based approaches to complete the requirements elicitation for the mission: To automate the baggage drop-off after the passenger successfully check-in and print his/her boarding pass. (Hint: Consider some reasonable goals, questions, and metrics for questions).

Exercise 2 (Group Work):

Based on your solutions on Exercise 1, please draw a baggage drop-off prototype and walk through your prototype with at least two typical scenarios, i.e., the passenger completes the baggage drop-off task, and the passenger can't complete the baggage drop-off task.

Exercise 3 (Group Work):

Based on the results of Exercise 2, evaluate the correctness and the completeness of your requirements elicitation and your prototype, and consider the following two questions:
1) Do you identify all the possible requirements for the automatic baggage drop-off system?
2) Is your prototype able to handle all the identified requirements for the automatic baggage drop-off system?