Department of Computer Science

CS525 – Requirements Engineering
February 3rd 2020
Quiz 1 – Weight x/10 %

Q1. Suppose we are designing a smart home system. Identify at least 10 unique stakeholders. (5 points)

Q2. For the same smart home system, identify at least 5 unique requirements for the air conditioning/heating sub system. (5 points)

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(i) proper Ventilation (for proper air flow through the room)

(ii) Air Condition (for cooling purpose)

(iii) Heater (for heating purpose).

(iv) A moderator which checks and moderate the current room by turning AC or heater.

(v) Exhaust.

Q3. For the same smart home system, identify at least 5 unique unwanted requirements. (5 points)

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- opens front door when someone steps at it.
- automatic power off when there is no at home
- turning on lights when someone enters the room.
- checking identity before allowing someone to enter in the house
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Q4. For the elevator system discussed in class, identify at least 5 regulatory requirements that may be specified by the government. (5 points)

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- elevator should continue to move in the specified direction until it reaches to the top or bottom floor.
- a seat should be available for the elderly/disabled people
- a digital LED available at the top of elevator which tells the current direction and floor at which the elevator is.
- Backup power (generator) in case of any main power damage.
- elevator door should remain closed at idle condition until or unless someone presses the elevator button.