**Mid Term Examination-Fall 2022**

**BSSE**

**Software Requirement Engineering**

**SE-454**

**Registration No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Time: 1 hr**

**Date: 12-12-2022**  **Maximum Points: 18**

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**Answer the following questions.**

**(10 points)**

**Question 01:**

An Air conditioning company has just launched its new range of products. The company now intends to launch a mobile application with which the air conditioning system can be controlled. To address this, challenge the company considers designing an engineering product line.

The system/App, should be capable of turning ON and OFF the air conditioning units installed at different locations in a house. The Temperature can be controlled and monitored. Heating, Cooling and Fresh air are three modes of the systems. Along all the mandatory features mentioned above, the Fan Control is also a required characteristic of the system. By using the App the temperature can be put on ECO or can be set manually. At the capability layer the system Display setting can also be controlled, which include changing of colors and fonts of the user interface, however, it’s an optional feature. Furthermore, at Operating environment layer the system can be controlled via single smart phone or by multiple phones. The Air conditioning system must have wifi connections; however, remote control can also be used for control mechanism. Lastly, at Implementation layer the technologies used are android and ios.

By considering the above given scenario answer the following questions:

1. Extract functional requirements for the above given system.
2. Mention non- functional requirements for the above given system.

**Question 02:**

You are assigned a project named "Nova Real Estate", The system will work quite like zameen.com It will have investment option in addition to typical requirement like buying, renting, sale, setup of property projects. It will shows all progress of transactions to its users.

**(8 points)**

Following are its typical users:

* First time renters/buyers/sellers
* Individual property dealers
* Business property dealers
* Property developers
* Patwaris
* LDA officers.

1. Your task is to identify which appropriate requirement elicitation technique will be used if users are:
2. 50-100 (System for Rawalpindi only).
3. 500-1000 (Pakistan wide system maybe 5+ cities).
4. Identify all missing stakeholders.
5. Make a complete Use Case diagram and provide detail description of 'Find Property' Use Case.

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