# CECS-491-Software-Engineering-Project-I

# **Seminar Notes**

August 30, 2018

# Scenarios Vs. Use Cases:

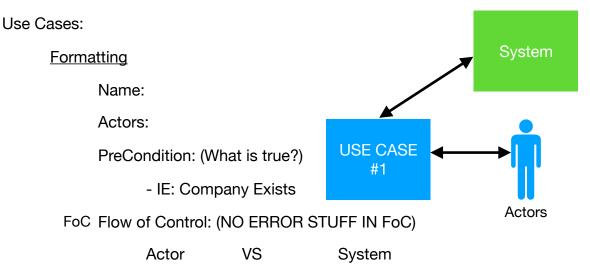
Scenario:	Use Cases:
Hoag Hospital Sends in a RFP	
Due Date is Sept 14th	
Proof of insurance	
Proof of Ability to work with nuclear medicine	
Must have Cali GC license	
Must have Cali Business license	
Build an MRI Exam Room	

Scenario:
Walmart sends in RFP
Due Date Oct 7th
Build a Warehouse
Proof of Cali GC License
Proof of EOE practice
Proof of CA Business License

Scenarios = Items to be done (Gathering Requirements)

- Also they are binding of Use Cases
  - ALL SCENARIOS become ONE USE CASE for "receiving RFP"
- Don't need to know why (not within your DOMAIN)

- Where most system fails is not understanding system requirements
  - 1 to 2 years preferred time to study
  - "Scenario" is a good way to approach a system requirements



- 1. User presses log on button 2. Display UI for name & pwd
- 3. User enters name
- 4. User enters pwd

Post Conditions: (After FoC, what changes?)

- Assuming everything works, what is changed in our system

Error Conditions: (Problem occurring in FoC)

- We don't ignore the error, we just put it in error block

IE: User enter wrong password, ask to try again

Quality/Non-Function Requirements: (Adverb of FoC)

- Additional Attributes that needs to be true (not PreCondition) for Functionalities

IE: A network guy making sure when user presses button, it goes to server and back in 3 seconds

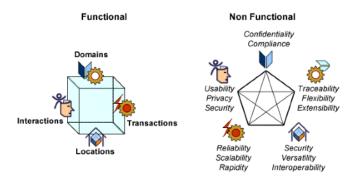
- This typically dictates the Use-Case functionalities

### September 4, 2018

## Non- Functional Requirements

- Usability the case with which a user can operate, prepare inputs for, and interpret outputs of a system or component
- Reliability the ability of a system or component to perform its required functions under stated conditions for a specified period of time
  - IE: Dependability, Robustness, Safety
  - Robustness IE: System has to be able to proceed even with bad inputs
- Performance requirements are concerned with quantifiable attributes of the system
  - IE: Response Time, Throughput, Availability and Accuracy
- Supportability changes to the system after deployment

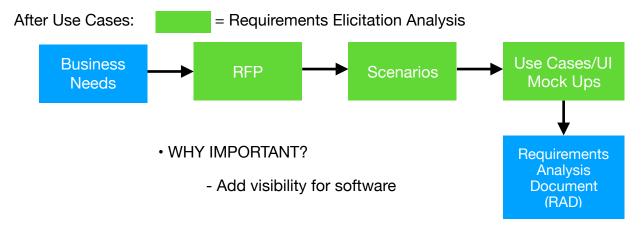
IE: Adaptability, Maintainability



- Implementation Requirements constraints on the implementation of the system, including the use of specific tools, programming languages, or hardware platforms
- Interface Requirements are constraints imposed by external systems, including legacy systems and interchange formats
- Operations Requirements Constraints on the administration and management of the system in the operational setting
- · Packaging Requirements constraint on the actual delivery of the system

IE: constraints on the installation media for setting up the software

• Legal Requirements - licensing, regulation, and certification issues.



- Instead of seeing the construction of building, with software, client can criticizes the Scenarios or Use case before hand with DUE Dates

#### Design the Solution:

- 1. ID Objects of system
- 2. ID Classes of system
- 3. Decide Methods and Attributes of Classes of system
- 4. Class Diagrams
- 5. Sequence Diagrams
  - Use to show the processes of Use Cases

#### Build the Solution:

1. Build the Code

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September 6, 2018