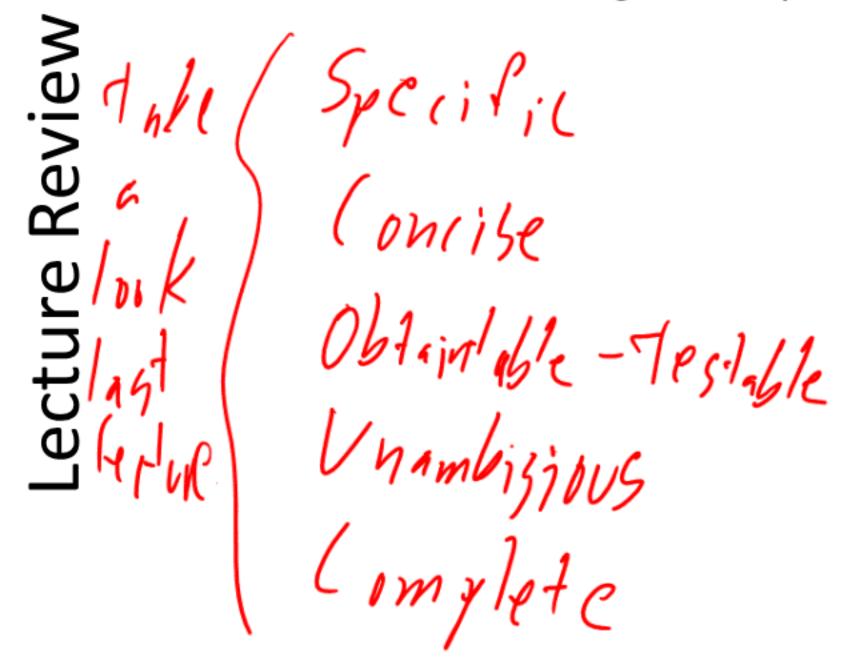


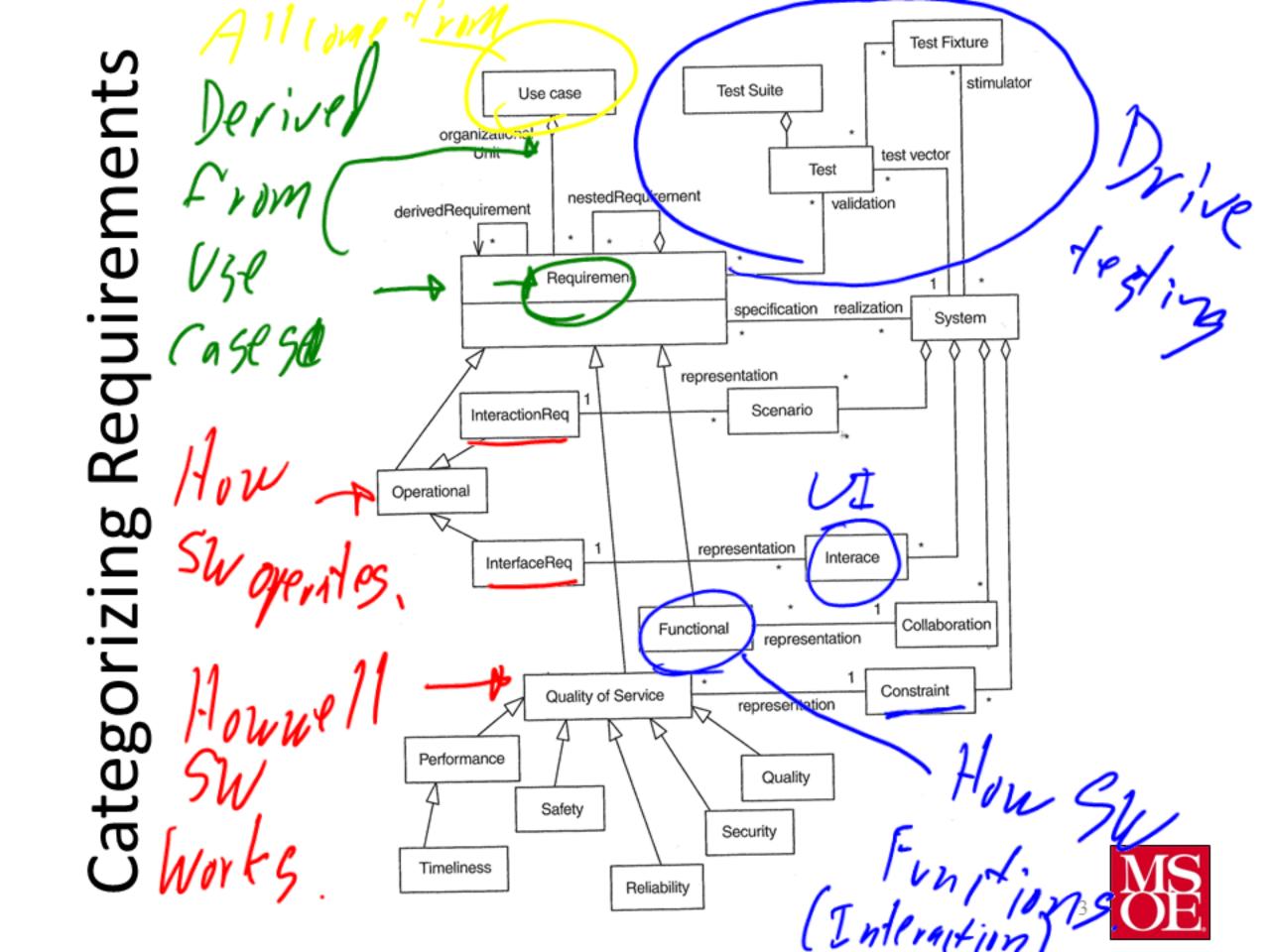
Software Use Cases

Objectives

- Define Actor
- Define a use case —
- •Interpret the meaning of a use case diagram.
- Explain the relationship between Use Case Diagrams and Use Case
 Scenarios
- List the items present in a use case scenario
- Construct a use case scenario for a given problem
- •Explain how the level of detail in use cases may change throughout the software development process.

- Turn to your neighbor and answer the following:
 - List attributes of good requirements





- Use Case Still and all Use Cases
 A named capability of a structural entity
 - A named capability of a structural entity within a system
 - Explanation of how someone would use the system or a capability of the system

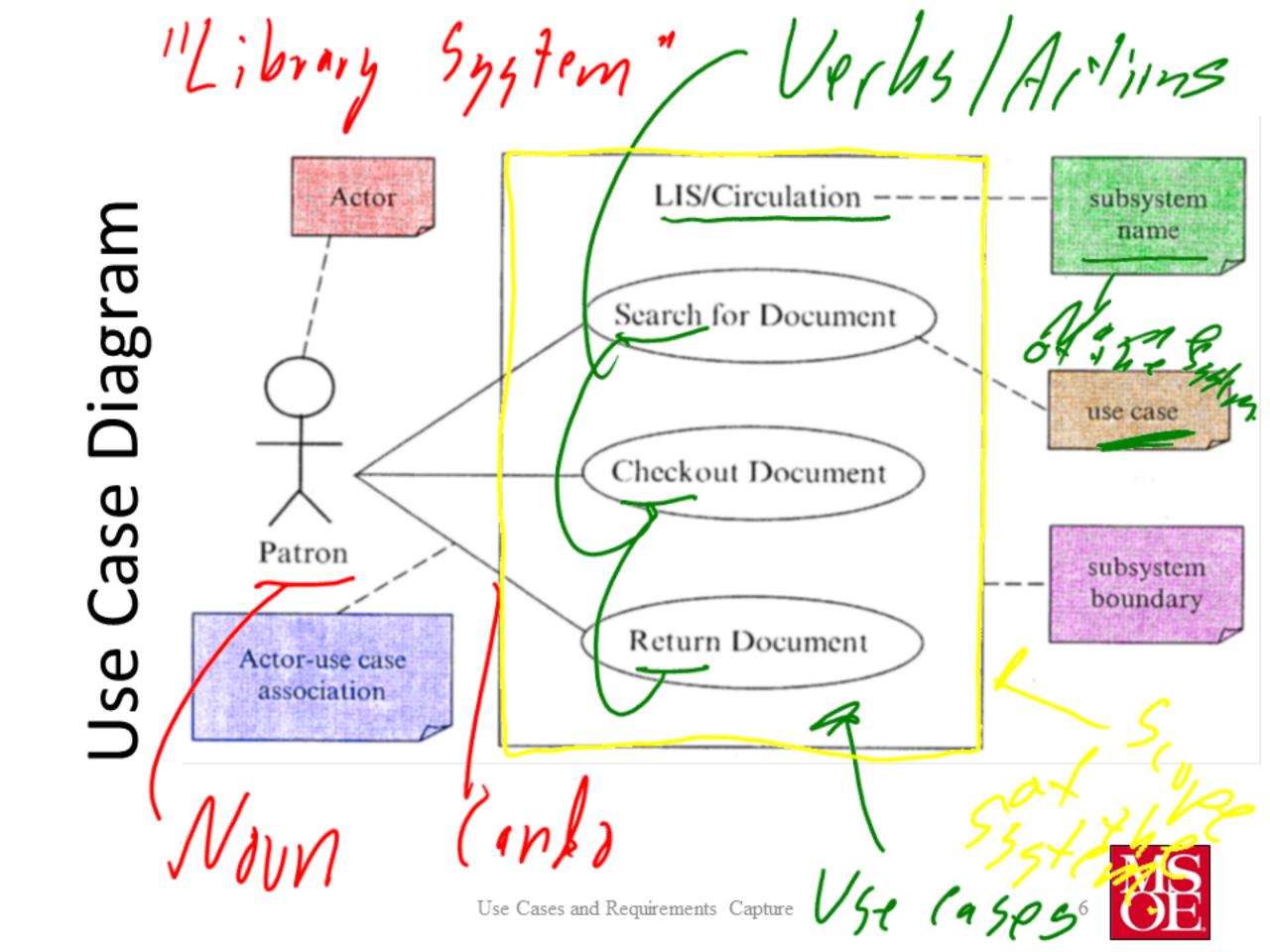
- Use Case Diagram
 - A diagram showing use cases and the relationship with Actors
 - Actor /ser / fx isting Sigles.

 An external entity which interacts with the
 - An external entity which interacts with the system



- Actor (Page 282-284 of textbook)
 - An object outside of the scope of the system which has significant interactions with the system
 - Typically users are a good example, but they are not the only example
 - Named with singular nouns



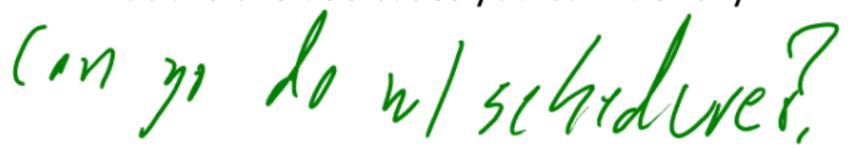


- Work with your neighbor next to you
 - Take out a sheet of paper

Identify the actors within the Scheduler system



- Draw a use case diagram for Scheduler
 - What are the use cases you can identify



Blackboard



Case[/]Types

- Depend on development phase
- High Level
 - Short one paragraph brief description only
- Essential/Analysis
 - Describe what the system does
 - Should be UI independent
- ReaT <
 - Describe what the system does
 - Focuses on how the UI supports the operations
 - Typically a re-write of the analysis use case

Different Perlail inthe Use 1044 Stegarios.

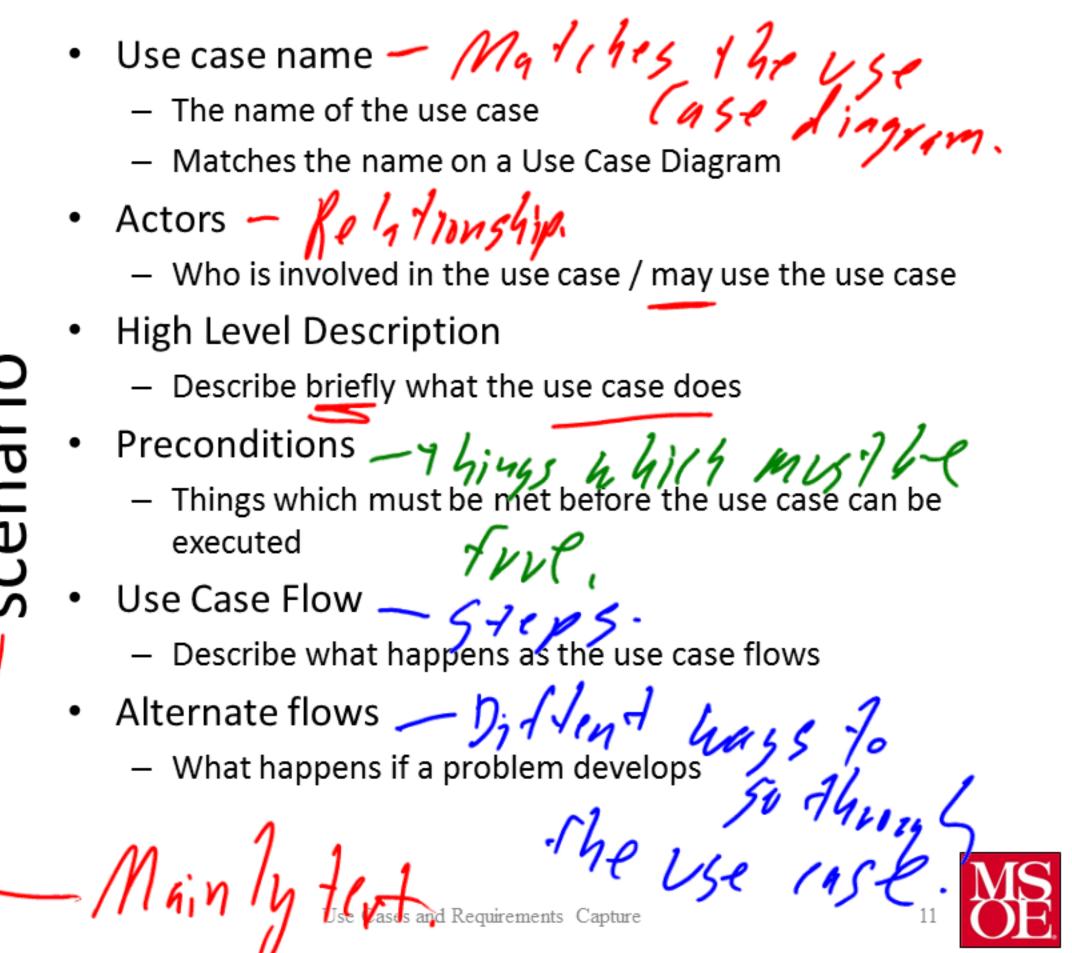
Jse Case Scenario

Describes

describes the context of a use case for a particular user

- conditions, motivation, and environment of the task for a particular user.
- Used by designers as a way to understand users' motivation and tasks in an interface

Why/whit



example Lets work an

- Scheduler
 - Generate Schedules

Actors

- Student
- High Level Description
 - This use case describes how a student may use the MSOE scheduler to generate potential course schedules. When completed, the student will have a list of potential course schedules that are valid for the given classes the student wishes to take.

Use Case Flow:

- Student has a desire to generate a list of schedules and invokes the course scheduler.
- 2. Students enters a list of courses that they wish to take.
- 3. Scheduler lists the times at which the desired courses are offered as well as the sections which are closed.
- 4. The student selects the sections and times which should be considered for schedule generation.
- 5. The student enters the number of schedules to generate.
- 6. The student indicates that the system should generate schedules.
- 7. The system generates a set of schedules and displays them to the user.
- 8. The user desires a generated schedule and sends it to the printer.
- 9. The system prints out a schedule to the printer.
- 10. The user saves the desired schedule to Outlook to import into his / her calendar.
- 11. The system generates an ics file and saves it to the local computer.

Alternate flows:

- 3a1 A student enters a course which is not offered for the given quarter. The system will indicate
 that the course is not available.
- 4a1 The student does not select any sections. Scheduler will not generate a schedule for the student.
- 5a1 The student does not enter a number of schedules to generate. By default, 20 will be generated.
- 7a1. No valid schedules can be generated. The system will display an error message to the user indicating it is impossible to generate a valid schedule with the desired courses.



table of contents for 995tem,

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	Resistrar	(Endolel Disablel	
verten er en			

Name: Generate Schedules Actor: Student, Faculty, Jenzebar Preconditions: User has authenticated. Evitive System must be enabled. Sistem High Level Description; This Use ease a llows students to create a set of Aschedules wased on Lesi'rel courses. When completed the student will have a set of Valid schedules. Use Case Flow: 1. Stulent has a desire to generate a list of Schedules 2. Stylent Enters the Lesized gourses.
3. Scheduler showelldisplaced the section of desized course end the times thegare offered 4. Stylent Selects the sections they would like to consider 5- Stylest selects how many schooles helshe would like generated. 6- Eggtem senerated a set of scheldes.