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23dcs100@charusat.edu.in >

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Software Engineering (course)



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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0 ()

Week 1: ()

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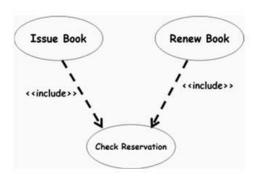
Week 7: ()

Week 7: Assignment 7

Your last recorded submission was on 2025-09-06, 09:37 Due date: 2025-09-10, 23:59 IST. IST

1) 1 point

Consider the following use case factorization example. Which of the following assertions can be inferred from it?



- a. Issue book use case implicitly invokes Check reservation use case
- Issue book use case invokes Check reservation use case only if some conditions are satisfied
- c. Issue book and Renew book use cases are inter dependent
- d. This factorization helps in reducing duplication of code in the implementation
- e. The factorization helps in reducing the runtime complexity of the two use cases

✓ a.

□ b.

□ c.

✓ d.

□ e.

2) 1 point

- Lecture 31:Use CaseModelling(unit?unit=65&lesson=66)
- Lecture 32 : Factoring Use Cases (unit? unit=65&lesso n=67)
- Lecture 33 : Overview of Class diagram (unit? unit=65&lesso n=68)
- Lecture 34 : Inheritance relationship (unit? unit=65&lesso n=69)
- Lecture 35 : Association relationship (unit? unit=65&lesso n=70)
- Lecture Material For Week 7 (unit? unit=65&lesso n=71)
- Quiz: Week 7: Assignment7(assessment?name=216)

Week 8: ()

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Which one of the following are FALSE about a use case?
a. It is a way in which a system can be used by the users to achieve specific goals
b. It corresponds to a non-functional requirement.
c. It defines external behavior without revealing internal structure of system
d. It is a set of related usage scenarios tied together by a common goal
e. It states a future goal of the system
□ a.✓ b.□ c.□ d.
☑ e.
3) UML 1.X was enhanced with additional notational support to largely address modelling which one of the following types of applications?
a. Embedded computing applications
b. Artificial intelligence applications
c. Data science applications
d. Cloud applications
e. Blockchain applications
 a.
○ b.
○ c. ○ d.
○ d. ○ e.
4) 1 point

Session ()

Which one of the following is implied by the class diagram given below?



- a. At least one key opens five doors
- b. Many doors are opened by a key
- c. Many doors are opened by up to 5 keys
- d. A door is opened by up to 5 keys
- e. A key opens up to 5 doors

○b.

Ос.

○d.

<u>©</u> е.

5) 1 point

Which of the following is implied by the class diagram given below?



- a. Neither a Door object nor a Key object store attributes of each other
- b. Either of a Door object or a Key object store attributes of the other
- c. A reference of a Door object is stored as an attribute of a Key object and also a reference of a Key object is stored as an attribute of a Door object
- d. A reference of a Door object is stored as an attribute of a Key object
- e. A reference of a Key object is stored as an attribute of a Door object

○ a.

○b.

Ос.

d.

Ое.

6) 1 point

Which of the following is NOT implied by the class diagram given below?
Key 02 opens > 05 Door
a. A Key opens up to 5 Doors
b. A Door is opened by up to 2 Keys
c. A Door is opened by up to 5 Keys
d. A Key may not open any of the Doors
e. Up to 2 Keys open up to 5 Doors
 ○ a. ○ b. ○ c. ○ d. ○ e.
7) Identification of the different categories of users in a use case diagram does not help towards which of the following?
a. Design of a suitable user interface
b. Design of a security and authentication mechanism
c. Design of a suitable user manual
d. Design of controller classes
e. Design of integration test plan
□ a. □ b. □ c. ☑ d. ☑ e.
8) 1 point

How is an external system represented in a use case diagram?
a. Using a specific icon available for this purpose
b. Using text description
c. Using object constraint language (OCL)
d. By stereotyping the actor icon
e. By using the symbol used to represent an object
○ a.
○ b.
○ c.
○ e.
9) A library automation software is to be designed. A use case named checkReservation is needed to check whether a book has been reserved by any user. For the issueBook use case, before a book can be issued it needs to be checked whether the book has been reserved by any user. Which one of the following mechanisms is most appropriate to make the issueBook use case to include the checkReservation use case?
a. Inheritance
b. Dependency
c. Include
d. Extend
e. Composition
○ a.
○ b.
◎ c.
○ d.
○ e.
10) 1 point

	Teacher	2 teaches >	03	Course
	a. Each course is jo	intly taught by two teac	hers	
	b. Each teacher tea	iches two courses		
	c. Some teachers n	nay teach three course		
	d. Some teachers n	nay not teach any course	2	
	e. Upto three Teac	hers can jointly teach ex	actly 2 Courses	
□ a.				
✓ b.				
□ c.				
☐ d.				
✓ e.				
ou may sub		s before the due date. T	he final submissio	on will be
Submit An	swers			