

Đã bắt đầu vào lúc	Thứ năm, 14 Tháng chín 2023, 10:23 AM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ năm, 14 Tháng chín 2023, 10:29 AM
Thời gian thực hiện	6 phút 5 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Which of the following is the best case?

- Chọn một:
- ☒ a. None of the other answers are correct.✔
 - ☐ b. Can accept some under-the-table money from customers in some circumstances.
 - ☐ c. Do not have responsibility to help colleagues to behave morally.
 - ☐ d. Present only part of the available data that make customers happy.

Câu trả lời đúng là: None of the other answers are correct.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about software.

- Chọn một:
- ☐ a. Software costs = development cost + testing cost + maintenance/upgrade cost + etc.
 - ☒ b. All of the other answers are correct.✔
 - ☐ c. Software are computer programs and associated document.
 - ☐ d. Good software deliver requirement functionality, trustable, easy to use and maintainable.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Which of the following is/are not software engineer responsibilities?

- Chọn một:
- ☐ a. Be fair and take action not to discriminate.
 - ☒ b. Satisfy customer requirements in all circumstances.✔
 - ☐ c. Involves wider responsibilities than simply the application of technical skills.
 - ☐ d. Make sure that the software products are as professional as possible.

Câu trả lời đúng là: Satisfy customer requirements in all circumstances.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about software classification.

- Chọn một:
- ☐ a. Nowadays, we classify software based on the customers: cooperation-based software, single-user-based software and server-based software.
 - ☐ b. All of the other answers are correct.
 - ☒ c. Each software type need appropriate techniques and development tools.✔
 - ☐ d. We can classify software as old-fashion software (built by old development processes) and modern software (built by modern development processes).

Câu trả lời đúng là: Each software type need appropriate techniques and development tools.

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about people in software engineering.

- Chọn một:
- ☐ a. Software developer has the responsibility on customer care, software design and software testing
 - ☐ b. Software designer is not an engineering job as it uses no theory.
 - ☒ c. None of the other answers are correct.✔
 - ☐ d. Programmer = coder + software tester

Câu trả lời đúng là: None of the other answers are correct.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Choose the wrong answer about software engineering activities.

Chọn một:

- ☒ a. The best technique in software engineering is the newest proposed one. ✓
- ☐ b. Software developer = software designer + programmer.
- ☐ c. Good software can be accepted by customers should match the customer style/personality.
- ☐ d. Fundamental activities in software engineering: specification, development, validation and evolution.

Câu trả lời đúng là: The best technique in software engineering is the newest proposed one.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about software type.

Chọn một:

- ☐ a. Business and society are always changing, we continuously need new techniques, methods, tools in software development.
- ☐ b. There are many different application types, each requires different appropriate techniques, methods and development tools.
- ☐ c. Software development should be performed in considering about platforms and computer/device types.
- ☒ d. All of the other answers are correct. ✓

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about software engineering.

Chọn một:

- ☐ a. Software engineering concerns only in building executable software.
- ☐ b. The production of software should be super fast, no matter how many bugs there are.
- ☐ c. All of the other answers are correct.
- ☒ d. Software engineering is an engineering discipline that is concerned with all aspects of software production. ✓

Câu trả lời đúng là: Software engineering is an engineering discipline that is concerned with all aspects of software production.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Software engineering is an engineering discipline when it ____ .

Chọn một:

- ☐ a. requires that the users should be trained well.
- ☒ b. uses appropriate theories and methods to solve problems bearing in mind organizational and financial constraints. ✓
- ☐ c. All of the other answers are correct.
- ☐ d. needs engineers to operate and develop.

Câu trả lời đúng là: uses appropriate theories and methods to solve problems bearing in mind organizational and financial constraints.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Show your opinion upon completing this course.

Chọn một:

- ☒ a. In all cases, we need to study/practice more knowledge and skills when this course is just about an introduction to the field. ✓
- ☐ b. To be a software engineer, we do not need to study any more knowledge when the course provides all.
- ☐ c. To be a software tester, we only need to study more all other programming languages.
- ☐ d. All of the other answers are correct.

Câu trả lời đúng là: In all cases, we need to study/practice more knowledge and skills when this course is just about an introduction to the field.

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Đã bắt đầu vào lúc	Thứ năm, 14 Tháng chín 2023, 10:31 AM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ năm, 14 Tháng chín 2023, 10:41 AM
Thời gian thực hiện	9 phút 51 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about software process concept.

- Chọn một:
- ☐ a. Software process model is another name for software process.
 - ☒ b. All software processes consist of fundamental activities: specification, development, validation and evolution.✔
 - ☐ c. All the other answers are correct.
 - ☐ d. Software process is a set of techniques in software development.

Câu trả lời đúng là: All software processes consist of fundamental activities: specification, development, validation and evolution.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Suppose that, some one states that: (1) Software specification is a process of specifying functionalities and constraints in development and operation software; (2) Software development is a process of transferring specification into executable system; (3) Software testing is part of software validation. Giving 1 point for each correct statement and -1 point for each incorrect statement. How many point do we have?

- Chọn một:
- ☒ a. 3✔
 - ☐ b. -1
 - ☐ c. 1
 - ☐ d. -3

Câu trả lời đúng là: 3

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Which one is so wrong in software processes?

- Chọn một:
- ☐ a. The incremental process allows fundamental software engineering activities such as specification, development and validation to be performed repeatedly.
 - ☐ b. In the incremental process, the goal for each iteration (repeat) may not be depended on the previous iterations.
 - ☐ c. In the waterfall model, the previous phase should be done before starting the next phase.
 - ☒ d. In the incremental process, only the final product could be delivered to the customer.✔

Câu trả lời đúng là: In the incremental process, only the final product could be delivered to the customer.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Which one is correct?

- Chọn một:
- ☐ a. In the waterfall model, there are always 4 stages.
 - ☒ b. None of the other answers is correct.✔
 - ☐ c. In the waterfall model, we can not go back to the previous stage (only to the first stage if there is any problem in the latter stages).
 - ☐ d. In the development step of incremental development, there is no more requirement analysis.

Câu trả lời đúng là: None of the other answers is correct.

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

Which of the following documents are in professional software development?

- Chọn một:
- ☐ a. Software Testing Document - STD
 - ☐ b. Software Detail Design - SDD
 - ☒ c. All of the other answers.✔
 - ☐ d. Software Requirement Specification - SRS

Câu trả lời đúng là: All of the other answers.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

In which CMM (Capability Maturity Model) level, the company guarantees about the continuously improvement in software process?

Chọn một:

- ☒ a. 5 ✓
- ☐ b. 3
- ☐ c. 6
- ☐ d. 4

Câu trả lời đúng là: 5

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Software development activity ____.

Chọn một:

- ☒ a. Is a process of converting specification into executable systems. ✓
- ☐ b. All of the other answers are correct.
- ☐ c. Design step and then implementation step as in water fall.
- ☐ d. Includes: design and implementation and testing

Câu trả lời đúng là: Is a process of converting specification into executable systems.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

In prototyping software development, what is a prototype?

Chọn một:

- ☐ a. A program that has at least more features than the requirements from the customer.
- ☒ b. A program that has user interface and may have some basic functions. ✓
- ☐ c. A complete design that can be implement immediately.
- ☐ d. A program that has user interface and workable functions.

Câu trả lời đúng là: A program that has user interface and may have some basic functions.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Software specification activity ____.

Chọn một:

- ☐ a. Is a process of establishing the software requirements.
- ☐ b. Can includes: requirement elicitation and analysis, requirement specification and requirement validation.
- ☐ c. Is a fundamental activity in Software engineering.
- ☒ d. All of the other answers are correct. ✓

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about software processes.

Chọn một:

- ☐ a. The reuse-oriented model can only be used together with the waterfall model.
- ☐ b. The incremental process can only be applied when the development time is very long.
- ☐ c. The waterfall model is currently used in small companies when it is traditional.
- ☒ d. None of the other answers is correct. ✓

Câu trả lời đúng là: None of the other answers is correct.

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Đã bắt đầu vào lúc	Thứ năm, 14 Tháng chín 2023, 10:55 AM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ năm, 14 Tháng chín 2023, 11:00 AM
Thời gian thực hiện	4 phút 57 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

For a "need only the full product with training" project, which process should be used and the reason?

- Chọn một:
- ☐ a. Incremental as we can only deliver the last version.
 - ☒ b. All the other answers are correct. ✓
 - ☐ c. Re-use oriented as we can deliver the full product.
 - ☐ d. Waterfall as the product can only be delivered at the end.

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

For a "fixed structure/architecture" project, which process should be used and the reason?

- Chọn một:
- ☐ a. Incremental as the design and implementation are interleaved.
 - ☒ b. Waterfall as the implementation is after the design step. ✓
 - ☐ c. All the other answers are correct.
 - ☐ d. Waterfall and incremental together for fixed architecture and fast development.

Câu trả lời đúng là: Waterfall as the implementation is after the design step.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Software prototype can be used in ____.

- Chọn một:
- ☐ a. Testing process: run back-to-back tests
 - ☒ b. All the other answers are correct. ✓
 - ☐ c. Requirements elicitation and validation
 - ☐ d. Options and develop UI design

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

The most activity in Software evolution is ____.

- Chọn một:
- ☐ a. Adaptation (new environment, new device, etc.)
 - ☒ b. All the other answers are correct. ✓
 - ☐ c. Fixing error after software release
 - ☐ d. Upgrade (new feature, etc.)

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

For a "going-to-change requirements" project, which process should be used and the reason?

- Chọn một:
- ☐ a. Incremental as we can stop at anytime and go back to the specification step.
 - ☐ b. Waterfall as the specification was fixed then we reject the changes.
 - ☒ c. Incremental as the "not-yet-develop" requirements can be changed for next development iterations. ✓
 - ☐ d. All the other answers are correct.

Câu trả lời đúng là: Incremental as the "not-yet-develop" requirements can be changed for next development iterations.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

The most common activity in Software validation is ____.

Chọn một:

- ☐ a. Requirement review, development review and software review
- ☐ b. All the other answers are correct.
- ☒ c. Software testing ✓
- ☐ d. Development review and software testing

Câu trả lời đúng là: Software testing

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Software development is a process of ____.

Chọn một:

- ☐ a. Requirement Analysis, Design, Programming and Testing
- ☐ b. Design, Programming and Testing
- ☐ c. All the other answers are correct.
- ☒ d. Design and Implementation ✓

Câu trả lời đúng là: Design and Implementation

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

For a "easily get customer feedback" project, which process should be used and the reason?

Chọn một:

- ☐ a. Incremental as we can continue the whole interleaving process.
- ☐ b. All the other answers are correct.
- ☒ c. Incremental as we can deliver version to version during the development ✓
- ☐ d. Waterfall as the specification was fixed then the next stage can be carried out.

Câu trả lời đúng là: Incremental as we can deliver version to version during the development

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Software specification is a process of ____.

Chọn một:

- ☐ a. Requirements elicitation and analysis
- ☐ b. Requirements validation
- ☐ c. Requirements specification
- ☒ d. All the other answers are correct. ✓

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

For a "fixed requirements" project, which process should be used and the reason?

Chọn một:

- ☐ a. Any process depended on the type of the application.
- ☐ b. Waterfall as the specification was fixed then the next stage can be carried out.
- ☒ c. All the other answers are correct. ✓
- ☐ d. Incremental as we can continue the whole interleaving process.

Câu trả lời đúng là: All the other answers are correct.

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Đã bắt đầu vào lúc	Thứ năm, 14 Tháng chín 2023, 11:16 AM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ năm, 14 Tháng chín 2023, 11:20 AM
Thời gian thực hiện	4 phút 34 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

The followings are requirements for a course registering software: (1) Students shall search the course schedules; (2) The system should be operated around the clock and 7 days a week (24/7 mode) in the registration periods;(3) The confirmation of the the registration is sent to the student immediately;(4) Office staffs can add new schedule for a course. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF)?

- Chọn một:
- ☒ a. F-NF-NF-F.✔
 - ☐ b. F-NF-F-NF.
 - ☐ c. F-F-F-F.
 - ☐ d. NF-NF-NF-NF

Câu trả lời đúng là: F-NF-NF-F.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Who may be your stakeholders?

- Chọn một:
- ☒ a. All the other answers are correct.✔
 - ☐ b. End users
 - ☐ c. External stakeholders
 - ☐ d. System managers

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Feedbacks from students about the course registration software are as follows. (1) Software should response immediately in searching schedules; (2) Software should check and answer immediately the result of a registration. Which of the following opinion of the development team is correct?

- Chọn một:
- ☐ a. Only care about the second statement as it is a non-functional requirement.
 - ☐ b. None of the other opinions is correct.
 - ☒ c. Have to care both statements because they are all (functional/non-functional) requirements.✔
 - ☐ d. Students have no responsibility to feedback.

Câu trả lời đúng là: Have to care both statements because they are all (functional/non-functional) requirements.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Functional vs. Non-functional requirements?

- Chọn một:
- ☐ a. A functional requirement shall be together with some non-functional requirements. and vise versa.
 - ☐ b. There is no relationship between them.
 - ☒ c. Some non-functional requirements may requires some related functional requirements.✔
 - ☐ d. All the other answers are correct.

Câu trả lời đúng là: Some non-functional requirements may requires some related functional requirements.

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

Which is the best answer for functional requirements?

- Chọn một:
- ☐ a. Are classified into service, operation, method and auxiliary function
 - ☒ b. Describe functionalities or system services✔
 - ☐ c. All the other answers are correct.
 - ☐ d. Always in natural languages

Câu trả lời đúng là: Describe functionalities or system services

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the followings are NOT non-functional requirement categories?

Chọn một:

- ☐ a. All the other answers are correct.
- ☐ b. Usability, Efficiency, Dependability, Security
- ☐ c. Performance, Environmental, Operational, Regulatory, Safety
- ☒ d. Intermodule Relationship, Cost/Price, Deadline ✓

Câu trả lời đúng là: Intermodule Relationship, Cost/Price, Deadline

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which is the best answer for non-functional requirements?

Chọn một:

- ☐ a. Are classified into product, organization and external categories.
- ☒ b. All the other answers are correct. ✓
- ☐ c. A single non-functional requirement may generate a number of related functional requirements.
- ☐ d. Define system properties and constraints such as reliability, response time and storage requirements.

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about functional and non-functional requirements.

Chọn một:

- ☒ a. All the other answers are correct. ✓
- ☐ b. Functional requirements are descriptions of system services.
- ☐ c. Non-functional requirements are constraints on software and/or software development.
- ☐ d. Functional and Non-functional requirements are all requirements from the customers.

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

User Requirement vs. System Requirement?

Chọn một:

- ☐ a. All the other answers are correct.
- ☐ b. User Requirements are requirements from customers (user interface, services, ...), System Requirements are requirements from the system (computer, network, environment, ...).
- ☒ c. User Requirements are general requirements from customers (both functional and non-functional requirements), System Requirements are specific requirements from customers (details of services/functional requirements, details of non-functional requirements). ✓
- ☐ d. User Requirements are requirements from the leaders (management functions), System Requirements are requirements from the system managers (computer, network, server, installation, ...).

Câu trả lời đúng là: User Requirements are general requirements from customers (both functional and non-functional requirements), System Requirements are specific requirements from customers (details of services/functional requirements, details of non-functional requirements).

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about software requirements

Chọn một:

- ☐ a. Software requirements may be the basis for a bid for a contract - open to interpretation; or the basis for the contract itself - defined in detail.
- ☐ b. Software requirements may range from a high-level abstract statement of a service/constraint to a detailed mathematical functional specification.
- ☒ c. All the other answers are correct. ✓
- ☐ d. Software requirements are descriptions of system services and constraints on software development and operation.

Câu trả lời đúng là: All the other answers are correct.

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Đã bắt đầu vào lúc	Thứ bảy, 23 Tháng chín 2023, 12:27 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ bảy, 23 Tháng chín 2023, 12:36 PM
Thời gian thực hiện	9 phút 11 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

The followings are requirements for a child tracking app: (1) The app sends an alert message to the parent when the child is out of the safe zone; (2) The app sends the locations of the child to the parent regularly; (3) The app allows the child to call the parent just by pressing one button; (4) The app cannot be off at any time. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF)?

- Chọn một:
- ☐ a. NF-NF-NF-NF
 - ☒ b. F-F-F-NF.✔
 - ☐ c. F-NF-F-F.
 - ☐ d. F-NF-NF-F.

Câu trả lời đúng là: F-F-F-NF.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

The followings are requirements for a library management software: (1) The software should be operated on Windows; (2) The software allows library staffs to track books borrowed by students; (3) The software should be available from 7:30 to 21:00 every working day; (4) The software will send a monthly report to the manager at the end of every month. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF)?

- Chọn một:
- ☐ a. F-F-F-F.
 - ☐ b. NF-NF-NF-NF.
 - ☐ c. F-NF-F-NF.
 - ☒ d. NF-F-NF-F.✔

Câu trả lời đúng là: NF-F-NF-F

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Which is NOT correct about software requirements

- Chọn một:
- ☐ a. The developers have to add their idea about the software into the requirements when they know how to develop the software.
 - ☐ b. All the other answers are correct.
 - ☐ c. Customer constraints such as the personality of the developers are not requirements.
 - ☒ d. Software requirements may be very detailed for helping the developers in developing the software.✔

Câu trả lời đúng là: Software requirements may be very detailed for helping the developers in developing the software.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

The followings are requirements for a personal money management mobile app: (1) The app should be provided on Android and iOS device; (2) The app should be small and fast; (3) The app can be operated by only left or right hand; (4) The app should be free. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF) or not a software requirement (NR)?

Chọn một:

- ☒ a. NF-NF-NF-NR
- ☐ b. F-F-F-NR.
- ☐ c. F-NF-NF-F.
- ☐ d. F-NF-NR-F.

Câu trả lời đúng là: NF-NF-NF-NR

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the followings are better requirement representation? (1A) The app should be provided on Android and iOS device; (1B) The app is multi-platform; (2A) The app should be small and fast; (2B) The app size is maximum 200MB and should be response to any touch in within 1 second?

Chọn một:

- ☐ a. 1B and 2B
- ☒ b. 1A and 2B
- ☐ c. 1A and 2A.
- ☐ d. 1B and 2A.

Câu trả lời đúng là: 1A and 2B.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Who are your stakeholders for a movie ticket selling software and why?

Chọn một:

- ☐ a. All the other answers are correct.
- ☐ b. Security staffs - they tell us what they want/like about the software
- ☒ c. Theatre managers - they require the software with some requirements
- ☐ d. Audiences - they provide software requirements

Câu trả lời đúng là: Theatre managers - they require the software with some requirements

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Who are your stakeholders for a university smart lighting software and why?

Chọn một:

- ☐ a. Students - they provide what they feel about how beautiful the campus is
- ☐ b. Guesses of the university - they require the software with some requirements
- ☒ c. Security staffs - they tell us what they want to control the light in the campus
- ☐ d. All the other answers are correct.

Câu trả lời đúng là: Security staffs - they tell us what they want to control the light in the campus

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

The followings are requirements for a smart lighting software: (1) The light in an empty room should be turned off automatically; (2) When a group of person appears in a corridors of a building at night, the light should be on; (3) At any time, a security guy can turn on or off the light in any room in the building; (4) For every 6 months, all the light bulbs should be replaced. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF) or not a software requirement (NR)?

Chọn một:

- ☐ a. NF-NF-NR-NF
- ☐ b. F-NF-NF-F.
- ☐ c. F-NF-NR-F.
- ☒ d. F-F-F-NR. ✓

Câu trả lời đúng là: F-F-F-NR.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which is NOT correct about functional and non-functional requirements

Chọn một:

- ☒ a. Non-functional requirements can be reformed to be functional requirements. ✓
- ☐ b. They are all requirements.
- ☐ c. Some non-functional requirements may requires some related functional requirements.
- ☐ d. They are all from customer.

Câu trả lời đúng là: Non-functional requirements can be reformed to be functional requirements.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

The followings are requirements for a movie ticket selling software: (1) An audience can search for a movie schedule; (2) The software shall be operated on web and shall be operated all the time (24/7 mode); (3) The audience can cancel the ticket and get the refund; (4) The movie theatre manager can add movie schedule for a movie. In order from 1 to 4, which requirement is functional (F) or non-functional requirement (NF)?

Chọn một:

- ☐ a. F-NF-NF-F.
- ☐ b. NF-NF-NF-NF
- ☐ c. F-F-F-F.
- ☒ d. F-NF-F-F. ✓

Câu trả lời đúng là: F-NF-F-F.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng chín 2023, 12:24 PM
Thời gian thực hiện	5 phút 53 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Choose the best answers about use-case.

- Chọn một:
- ☐ a. A use-case is a scenario representing interactions between actors and the system.
 - ☐ b. Use-case diagram is to show the set of use-cases.
 - ☒ c. All of the other answers are correct. ✓
 - ☐ d. The set of use-cases of a system represent all interactions between actors and the system.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Generic activities common to all requirement engineering processes?

- Chọn một:
- ☐ a. Prototyping – Discussion – Development – Testing.
 - ☐ b. Research – Interview – Representation – Synthesis.
 - ☐ c. All of the other answers are correct.
 - ☒ d. Elicitation - Analysis - Validation - Management. ✓

Câu trả lời đúng là: Elicitation - Analysis - Validation - Management.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Problems to work with stakeholders?

- Chọn một:
- ☒ a. All of the other answers are correct. ✓
 - ☐ b. Stakeholders express requirements in their own terms.
 - ☐ c. Stakeholders don't know what they really want.
 - ☐ d. Different stakeholders may have conflicting requirements.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Which is the common process in requirement elicitation and analysis?

- Chọn một:
- ☐ a. Discovery - Validation - Classification and Organization - Specification.
 - ☐ b. Discovery - Classification and Organization - Validation - Specification.
 - ☐ c. Discovery - Classification and Organization - Specification - Validation.
 - ☒ d. Discovery - Classification and Organization - Prioritization and Negotiation - Specification. ✓

Câu trả lời đúng là: Discovery - Classification and Organization - Prioritization and Negotiation - Specification.

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

Which of the following a use-case scenario shall describe?

- Chọn một:
- ☐ a. State when the scenario finishes.
 - ☒ b. All of the other answers are correct. ✓
 - ☐ c. Starting situation.
 - ☐ d. Normal flow of events and abnormal flow (what can go wrong).

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following about software requirement specification (SRS) is CORRECT?

Chọn một:

- ☐ a. It has to have all graphical user interfaces (GUI).
- ☒ b. It is the official statement of what is required of the system developers. ✓
- ☐ c. It is also a design document.
- ☐ d. It has to have all the test cases and instructions of how to validate the software.

Câu trả lời đúng là: It is the official statement of what is required of the system developers.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which of the following is mostly NEVER used in describing a requirement?

Chọn một:

- ☐ a. Graphical notation language (ex. UML)
- ☒ b. Audio and video. ✓
- ☐ c. Programming-like language.
- ☐ d. Natural and mathematic languages.

Câu trả lời đúng là: Audio and video.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following techniques are used in requirement validation?

Chọn một:

- ☐ a. Requirement review and user feedback.
- ☒ b. Requirement review, prototyping and test-case generation. ✓
- ☐ c. User confirmation and prototyping.
- ☐ d. All of the other answers are correct.

Câu trả lời đúng là: Requirement review, prototyping and test-case generation.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which of the following the requirement validation shall validates?

Chọn một:

- ☐ a. Validity – Does the system provide the functions which best support the customer's needs?
- ☒ b. All of the other answers are correct. ✓
- ☐ c. Consistency – Are there any requirements conflicts?
- ☐ d. Realism – Can the requirements be implemented given available budget and technology.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Who are NOT stakeholders of a software?

Chọn một:

- ☐ a. Managers.
- ☐ b. System operators.
- ☒ c. Developers. ✓
- ☐ d. Users.

Câu trả lời đúng là: Developers.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 1 Tháng mười 2023, 8:29 PM
Thời gian thực hiện	8 phút 1 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

A Library management system has the following abstract requirements. (1) The readers can borrow books from the library by self-checkout; (2) The librarians can track the borrowed books; (3) The librarians can add or remove books from the library; (4) The system generates reports for the manager monthly. Which of the following is correct?

- Chọn một:
- ☐ a. Actors: Reader, Manager, Librarian.
 - ☐ b. The actor Librarian interacts with the use-case Track the borrowed books.
 - ☐ c. The actor Reader interacts with the use-case Borrow books.
 - ☒ d. All of the other answers are correct.✔

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

A Personal money management app has the following abstract requirements. (1) The owner registers for the first time; (2) The owner can declare all personal payments to the app; (3) The app can show to the owner an analysis about his/her spending at anytime. Which of the following is correct?

- Chọn một:
- ☒ a. The use-cases are Register, Declare expenses; and Analyse spending.✔
 - ☐ b. All of the other answers are correct.
 - ☐ c. Actors: Owner and the Mobile phone.
 - ☐ d. The actor Mobile phone interacts with the use-case Register to register the owner to the app.

Câu trả lời đúng là: The use-cases are Register, Declare expenses; and Analyse spending.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

A Smoke detector system has the following abstract requirements. (1) The users can configure the detector in high-/normal-/low-sensitive modes; (2) The system shall be always in smoke detecting mode, and turn on the alarm for smoke until there is no more smoke; (3) In connection to the telephone line, a call with recorded voice will be called to the national fire hot line (ex. phone number 114). Which of the following is correct?

- Chọn một:
- ☒ a. The actor User interacts with the use-case Configure smoke sensitive mode.✔
 - ☐ b. Actors: User, Fire Station.
 - ☐ c. The actor User can turn the alarm off.
 - ☐ d. All of the other answers are correct.

Câu trả lời đúng là: The actor User interacts with the use-case Configure smoke sensitive mode.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Choose the WRONG answers about use-case.

- Chọn một:
- ☐ a. A use-case description has to include all test-cases to validate the use-case.
 - ☒ b. A use-case has to have an actor to trigger it.✔
 - ☐ c. A use-case is a scenario representing interactions between actors and the system.
 - ☐ d. The set of use-cases of a system represent all interactions between actors and the system.

Câu trả lời đúng là: A use-case has to have an actor to trigger it.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

For the following situation, which of the answer is IN CORRECT? "Setup consultation allows two or more doctors, working in different offices, to view the same record at the same time. One doctor initiates the consultation by choosing the people involved from a drop-down menu of doctors who are online. The patient record is then displayed on their screens but only the initiating doctor can edit the record. In addition, a text chat window is created to help coordinate actions. It is assumed that a phone conference for voice communication will be separately set up."

Chọn một:

- ☐ a. It is a use-case.
- ☐ b. The infrastructure manager, if any, should be one of our stakeholders.
- ☐ c. There is a lot of work to implement this feature.
- ☒ d. Actors are Doctor and Patient. ✓

Câu trả lời đúng là: Actors are Doctor and Patient.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

In discovering requirements from a on-duty person, which of the following should be used?

Chọn một:

- ☐ a. Stop the person to interview.
- ☐ b. Read the documentation about the work/duty to discover scenario/requirement.
- ☐ c. Observe to discover scenario/requirement.
- ☒ d. All of that of the other answers with concerns. ✓

Câu trả lời đúng là: All of that of the other answers with concerns.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

The following are abstract requirements of a movie ticket selling software. (1) The audience can register to be a member, search for the schedule, book tickets and print tickets; (2) The movie theatre manager can add movie schedules, exports management reports; (3) The CEO can read the ticket selling report sent to by the Movie theatre manager. Which of the following is correct?

Chọn một:

- ☐ a. The actor Movie theatre manager is actually the actor Ticketing staff.
- ☐ b. All of the other answers are correct.
- ☒ c. Use-cases: Register membership, Search for schedule, Book tickets, Print tickets, Add schedules, Export management report. ✓
- ☐ d. Actors: Audience, Movie theatre manager, CEO.

Câu trả lời đúng là: Use-cases: Register membership, Search for schedule, Book tickets, Print tickets, Add schedules, Export management report.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

The followings are requirements for a child tracking app: (1) The app sends an alert message to the parent when the child is out of the safe zone; (2) The app sends the locations of the child to the parent regularly; (3) The app allows the child to call the parent just by pressing one button; (4) The app cannot be off at any time. Which of the following is correct?

Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. The use-cases are Alert the parent, Send location; Call the parent; and Stop the app.
- ☒ c. The use-case Send location can be triggered automatically by the system (a timer/scheduler). ✓
- ☐ d. Actors: Owner (The child) and the App.

Câu trả lời đúng là: The use-case Send location can be triggered automatically by the system (a timer/scheduler).

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which is the best answer about languages for describing the requirements?

Chọn một:

- ☐ a. Graphical notation languages as they are fun.
- ☐ b. Natural languages when they are easy to be understood.
- ☒ c. All the other answers are NOT quite correct. ✓
- ☐ d. Mathematical languages as they are always correct.

Câu trả lời đúng là: All the other answers are NOT quite correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Which of the following about software requirement specification (SRS) is WRONG?

Chọn một:

- ☒ a. It is also a design document. ✓
- ☐ b. It is the official statement of what is required of the system developers.
- ☐ c. It should include both a definition of user requirements and a specification of the system requirements.
- ☐ d. It should set of WHAT the system should do rather than HOW it should do it.

Câu trả lời đúng là: It is also a design document.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 1 Tháng mười 2023, 8:35 PM
Thời gian thực hiện	5 phút 3 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chỉnh xác
Điểm 1,00 của 1,00

Which of the following UML diagrams can be used in interaction perspective?

- Chọn một:
- ☐ a. Use-case.
 - ☐ b. Sequence.
 - ☒ c. All of the other answers are correct. ✓
 - ☐ d. Collaboration/Communication.

Câu hỏi 2

Chỉnh xác
Điểm 1,00 của 1,00

An interaction model _____. .

- Chọn một:
- ☐ a. Models user-to-system interaction.
 - ☒ b. All of the other answers are correct. ✓
 - ☐ c. Models system-to-system interaction.
 - ☐ d. Models component-to-component interaction.

Câu hỏi 3

Chỉnh xác
Điểm 1,00 của 1,00

One of the purpose of systems modeling is for _____. .

- Chọn một:
- ☐ a. Debugging
 - ☐ b. None of the other answers is correct.
 - ☐ c. Decorating documents in software development.
 - ☒ d. Communication between software engineers. ✓

Câu hỏi 4

Chỉnh xác
Điểm 1,00 của 1,00

A sequence diagrams DO NOT consist of _____. .

- Chọn một:
- ☐ a. Component
 - ☐ b. Actor
 - ☐ c. Class / Object
 - ☒ d. State ✓

Câu hỏi 5

Chỉnh xác
Điểm 1,00 của 1,00

Which of the following about UML diagram is NOT correct?

- Chọn một:
- ☒ a. A use-case diagram the interactions between system components. ✓
 - ☐ b. A sequence diagram may show the sequence of interactions of a use-case
 - ☐ c. A sequence diagram may show the interactions between internal components.
 - ☐ d. A sequence diagram can be used to detail a use-case.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about system modeling.

Chọn một:

- ☐ a. System modeling is the process of developing abstract models of a system, with each model presenting a different view or perspective of that system.
- ☐ b. System modeling helps the analyst to understand the functionality of the system and models are used to communicate with customers.
- ☒ c. All of the other answers are correct. ✓
- ☐ d. System modeling has now come to mean representing a system using some kind of graphical notation, which is now almost always based on notations in the Unified Modeling Language (UML).

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

A context model _____. .

Chọn một:

- ☒ a. describes the system boundary to define what is inside and what is outside the system. ✓
- ☐ b. All of the other answers are correct.
- ☐ c. provides the structural perspective of the system.
- ☐ d. is a process perspective, i.e. to show how the system interacts with the other systems.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following about perspective is correct?

Chọn một:

- ☐ a. Structural perspective is to model the organization of a system or the structure of the data that is processed by the system..
- ☐ b. Interaction perspective is to model the interactions between a system and its environment, or between the components of a system.
- ☐ c. External perspective is to model the context or environment of the system.
- ☒ d. All of the other answers are correct. ✓

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which of the following UML diagrams defines the set of components and their relationship (interaction)?

Chọn một:

- ☐ a. Activity.
- ☐ b. Use-case.
- ☐ c. State.
- ☒ d. Collaboration/Communication. ✓

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

A use-case diagram DO NOT consist of _____. .

Chọn một:

- ☐ a. <<include>>> arrow
- ☐ b. Actor
- ☒ c. Class ✓
- ☐ d. <<extend>>> arrow

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Hoàn thành vào lúc	Chủ nhật, 8 Tháng mười 2023, 7:19 PM
Thời gian thực hiện	7 phút 6 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Which are good use-case names?

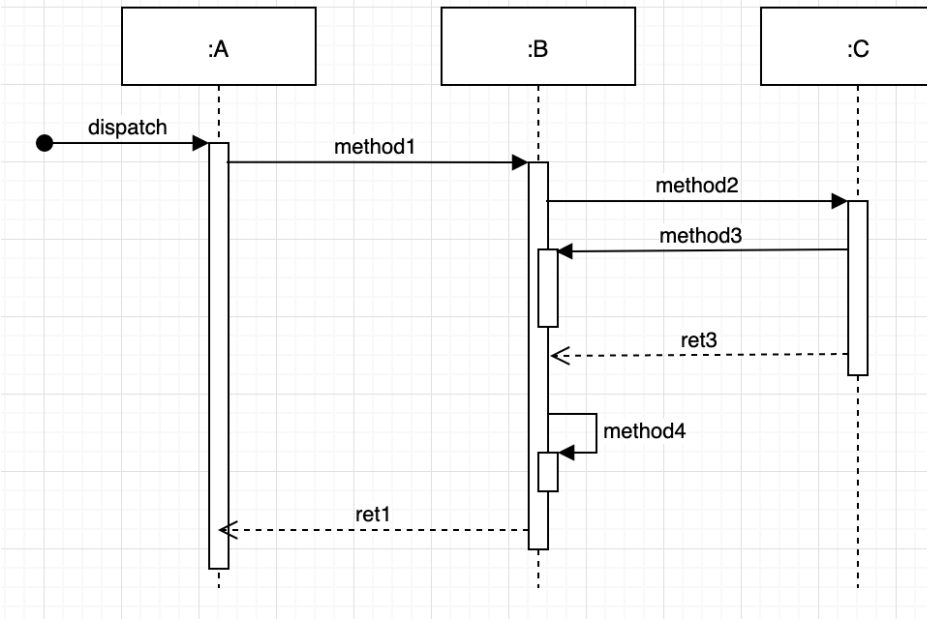
- Chọn một:
- ☐ a. Add new record; Search a book; Report generating.
 - ☐ b. Make report; Analysis system performance; Login.
 - ☒ c. All of the other answers are not correct when some of the phrase are not "verb phrase" as required for a use-case name.
 - ☐ d. Turn light on/off; Checking the lighting system.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about sequence diagram in Fig5.1.1.2.



- Chọn một:
- ☐ a. All of the other answers are correct.
 - ☐ b. A -- method1 --> B means component A performs its operation "method1" and then sends the result to component.
 - ☒ c. A -- method1 --> B means component A sends its operation "method1" to B and then B execute that operation.
 - ☐ d. A -- method1 --> B means component A asks component B to perform its operation "method1".

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about the use-case "include relationship".

Chọn một:

- ☐ a. A -- <<include>> --> means start in A, do nothing with B, and of course end at A.
- ☐ b. A -- <<include>> --> means start in B, must perform A, and then end at B.
- ☒ c. A -- <<include>> --> B means start in A, must perform B, and then end at A.
- ☐ d. All of the other answers are correct.

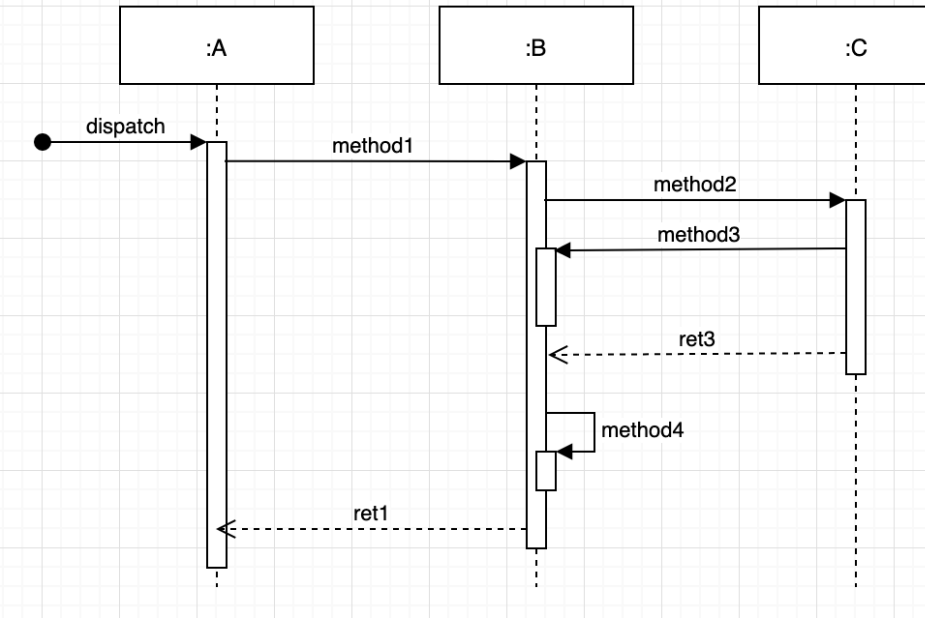
Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Choose the best answer about sequence diagram in Fig5.1.1.6.



Chọn một:

- ☐ a. A -- method1 --> B -- method4 --> B means A calls the operation "method1" and then calls another operation "method4".
- ☐ b. All of the other answers are correct.
- ☒ c. A -- method1 --> B -- method4 --> B means in performing its operation "method1", B calls its another operation "method4".
- ☐ d. A -- method1 --> B -- method4 --> B means "method4" is a sub-function of "method1".

Chính xác

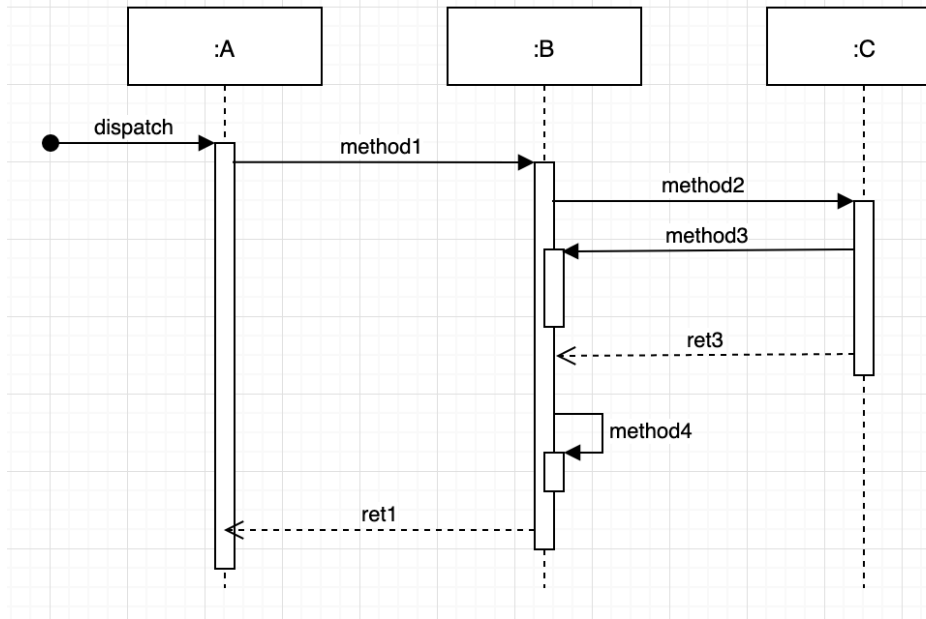
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about sequence diagram in Fig5.1.1.5.



Chọn một:

- ☐ a. A -- method1 --> B -- ret1 --> A means the operation "method1" is executing in B then B calls the operation "ret1" in A.
- ☐ b. A -- method1 --> B -- ret1 --> A means the operation "method1" is executing in B then sends the information "ret1" to A and then continue.
- ☐ c. All of the other answers are correct.
- ☐ d. A -- method1 --> B -- ret1 --> A means the operation "method1" is executing in B and in completing returns the information "ret1" back to A.

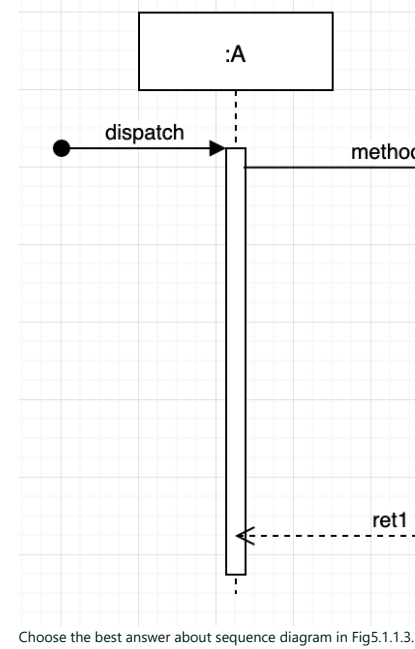
Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00



Choose the best answer about sequence diagram in Fig5.1.1.3.

Chọn một:

- ☐ a. A -- method1 --> B -- method2 --> C means the operation "method1" is started after ending "method2".
- ☐ b. A -- method1 --> B -- method2 --> C means the operation "method1" is ended before starting "method2".
- ☐ c. All of the other answers are correct.
- ☐ d. A -- method1 --> B -- method2 --> C means the operation "method1" is ended after completing "method2".

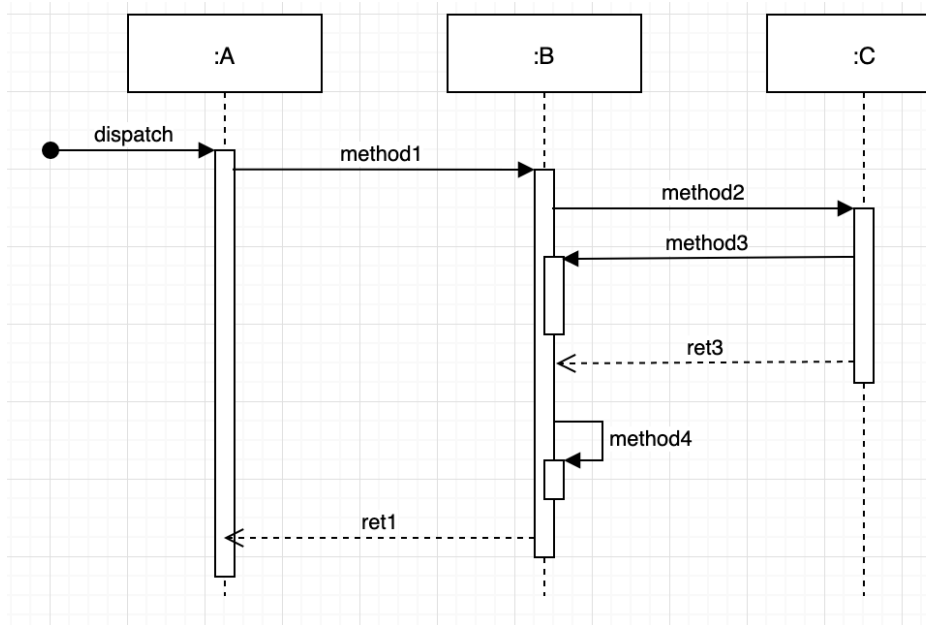
Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00



Choose the best answer about sequence diagram in Fig5.1.1.4.

Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. B -- method2 --> C -- method3 --> B means the operation "method2" is executing in C then C sends the information "method3" to B.
- ☐ c. B -- method2 --> C -- method3 --> B means the operation "method2" is executing in C then C stops and returns the information "method3" to B.
- ☐ d. B -- method2 --> C -- method3 --> B means the operation "method2" is executing in C then C calls the operation "method3" in B.

Chính xác

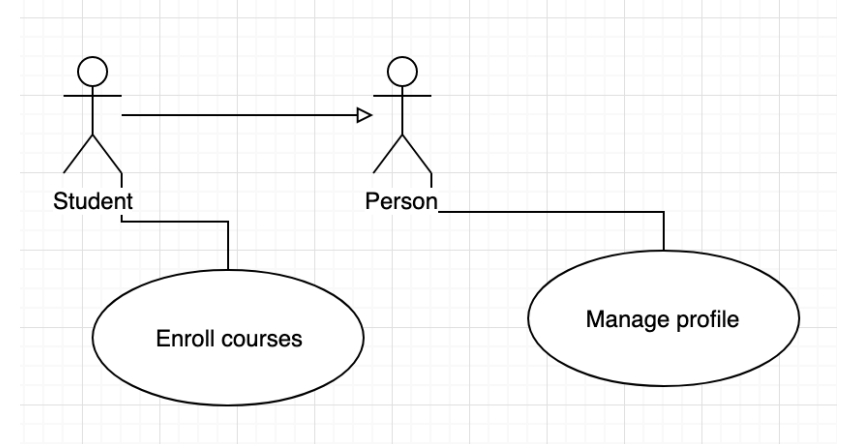
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following about actor generation in Fig5.1.1.1 is correct?



Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. Student ----> Person means Student can interact with its own use-cases (Enroll courses).
- ☐ c. Student ----> Person means Student can interact with all use-cases that are associated with Person (Manage profile).
- ☐ d. Student ----> Person means Person cannot interact with use-cases of Student (Enroll courses), except those are directly associated with Person (non in this case).

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Who/What triggers a sequence of actions/messages of a sequence diagram?

Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. An internal component itself
- ☒ c. An actor or other system (or a message/action from the outside).
- ☐ d. A use-case.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Choose the best answer about the use-case "extend relationship".

Chọn một:

- ☐ a. A -- <<extend>> --> B means start in A, must perform B, and always end at A.
- ☐ b. All of the other answers are correct.
- ☐ c. A -- <<extend>> --> B means start in A, may perform B and in that case end at B.
- ☒ d. A -- <<extend>> --> B means start in B, may perform A and in that case end at A.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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Đã bắt đầu vào lúc	Chủ nhật, 8 Tháng mười 2023, 7:20 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 8 Tháng mười 2023, 7:22 PM
Thời gian thực hiện	2 phút 27 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Which of the following IS NOT correct in a generalization relationship?

Chọn một:

- ☒ a. The parent class can perform a method that is only defined in the child class.✔
- ☐ b. All child classes of the same parent class may have the same set of methods
- ☐ c. A method in the parent class can be, in general, re-defined in a child class.
- ☐ d. A child class inherits all properties of the parent class.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following diagrams represents behavioral perspective?

Chọn một:

- ☐ a. Use-case.
- ☐ b. Collaboration/Communication.
- ☒ c. State-chart.✔
- ☐ d. Sequence.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Which of the following relationship can not be in a class diagram?

Chọn một:

- ☒ a. Order✔
- ☐ b. Generalization
- ☐ c. Association
- ☐ d. Aggregation

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

State-chart diagrams _____ .

Chọn một:

- ☐ a. Models interaction models.
- ☐ b. Consists of only simple states (simple state consists of no other states).
- ☒ c. Show system states and the transitions from one state to another state,✔
- ☐ d. All the other answers are correct.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Structural models _____. .

Chọn một:

- ☐ a. Can be a package diagram
- ☒ b. All the other answers are correct. ✓
- ☐ c. Display the organization of a system in terms of the components that make up that system and their relationships.
- ☐ d. Can be a class diagram.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Behavioral models _____. .

Chọn một:

- ☐ a. Models dynamic behavior of a system as it is executing.
- ☐ b. Can be represented using state-chart diagrams
- ☐ c. Show what happens or what is supposed to happen when a system responds to a stimulus from its environment.
- ☒ d. All the other answers are correct. ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which of the following diagrams represents structural perspective?

Chọn một:

- ☐ a. Collaboration/Communication.
- ☐ b. Activity.
- ☐ c. All the other answers are correct.
- ☒ d. Class. ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

UML language _____. .

Chọn một:

- ☒ a. Supports object-oriented software development. ✓
- ☐ b. Cannot be used in systems modeling.
- ☐ c. Cannot be used in modeling states/state-chart of a system or components.
- ☐ d. Can be used directly in programming as an object-oriented programming language.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Class diagrams _____ .

Chọn một:

- ☐ a. Show the relationship between classes.
- ☐ b. Consist of classes, each defines a component of the system.
- ☐ c. Represent the structural perspective.
- ☒ d. All the other answers are correct. ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Which of the following about activity diagram is NOT correct?

Chọn một:

- ☐ a. Can represent decision and concurrency.
- ☒ b. Cannot show the responsibilities of actors/systems using swimming lane. ✓
- ☐ c. A special state-chart diagram to show the flows of activity in the system.
- ☐ d. Consists of activities and transitions between activities.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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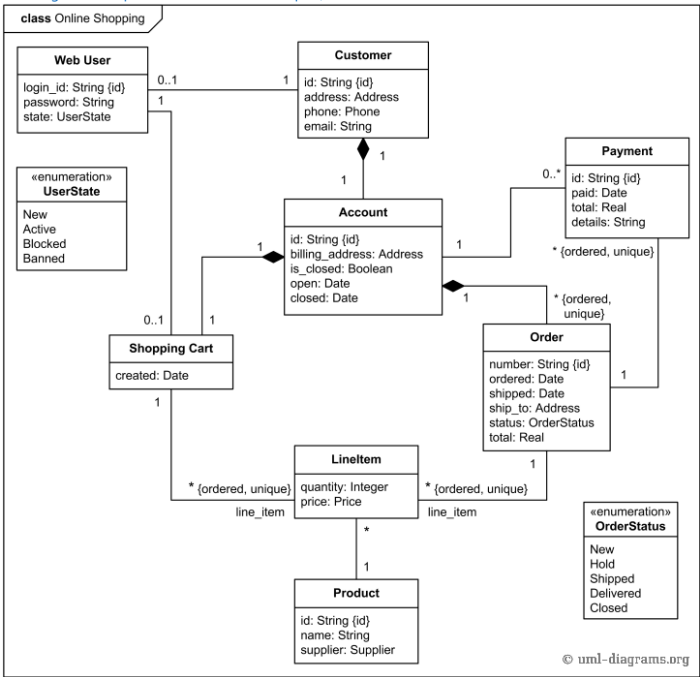
LIÊN HỆ

📍 268 Lý Thường Kiệt, P.14, Q.10, TP.HCM

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Which of the following is correct about the class relationship in Fig5.2.2.4 (<https://www.uml-diagrams.org/examples/online-shopping-domain-uml-diagram-example.html?context=cls-examples>)?



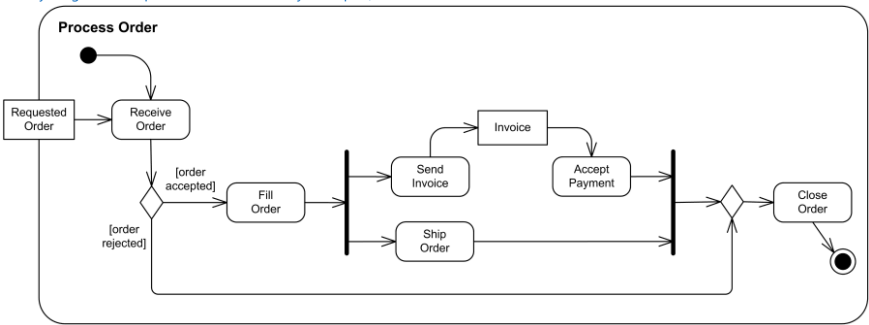
- Chọn một:
- ☐ a. A Customer object consists of only one Account object.
 - ☐ b. An Account may have no or many Payment.
 - ☒ c. All the other answers are correct. ✓
 - ☐ d. A WebUser object relates to only one (or is a) Customer object, but a Customer object may relate to one or no WebUser object.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following is INCORRECT about the activity diagram in Fig5.2.2.7 (<https://www.uml-diagrams.org/shopping-process-order-uml-activity-diagram-example.html?context=activity-examples>)?



- Chọn một:
- ☐ a. The whole process starts at the activity "Receive Order" and ends after "Close Order".
 - ☒ b. Right before processing the "Close Order", we can go back to make the decision on accepting or rejecting the order. ✓
 - ☐ c. There is a decision to accept an order then process the "Fill Order" activity, otherwise, do the "Close Order".
 - ☐ d. All the other answers are correct.

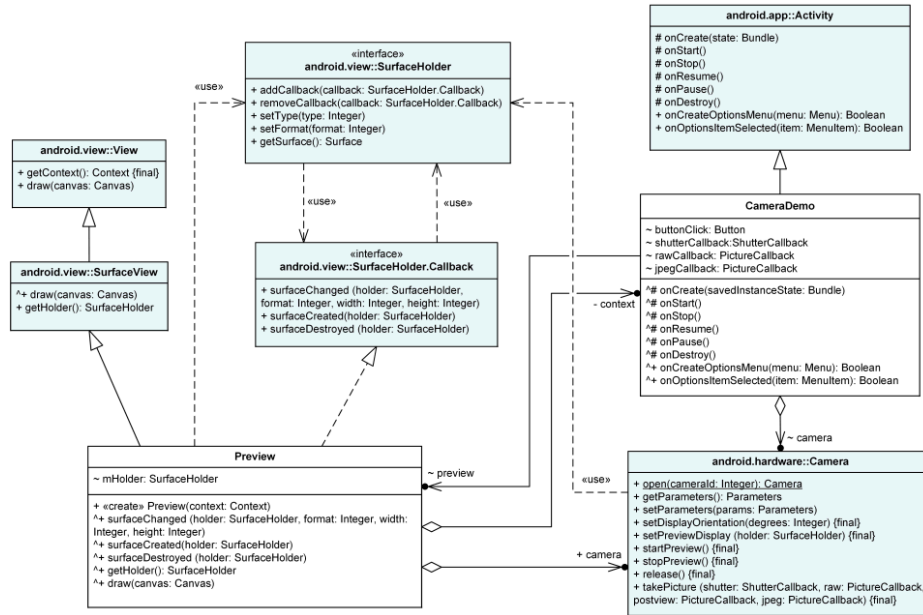
Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác

Điểm 1,00 của 1,00

Which of the following is INCORRECT about the class relationship in Fig5.2.2.2 (<https://www.uml-diagrams.org/android-camera-uml-class-diagram-example.html>)?



Chọn một:

- ☒ a. When an instance of class Preview is destroyed, the system should destroy all related instances of CameraDemo and android.hardware:Camera. ✓
- ☐ b. Preview is composed of CameraDemo and android.hardware:Camera.
- ☐ c. A method of CameraDemo cannot access directly to the attribute mHolder of Preview.
- ☐ d. A method of Preview cannot access directly to the attribute rawCallback of CameraDemo.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

Which of the following is INCORRECT about the state-chart diagram?

Chọn một:

- ☐ a. Names of states in general are adjectives.
- ☐ b. There may be some actions defined inside a state such as actions that are performed when entering a state.
- ☒ c. There is for some circumstance a transition point to nowhere. ✓
- ☐ d. Any transition should have an event.

Chính xác

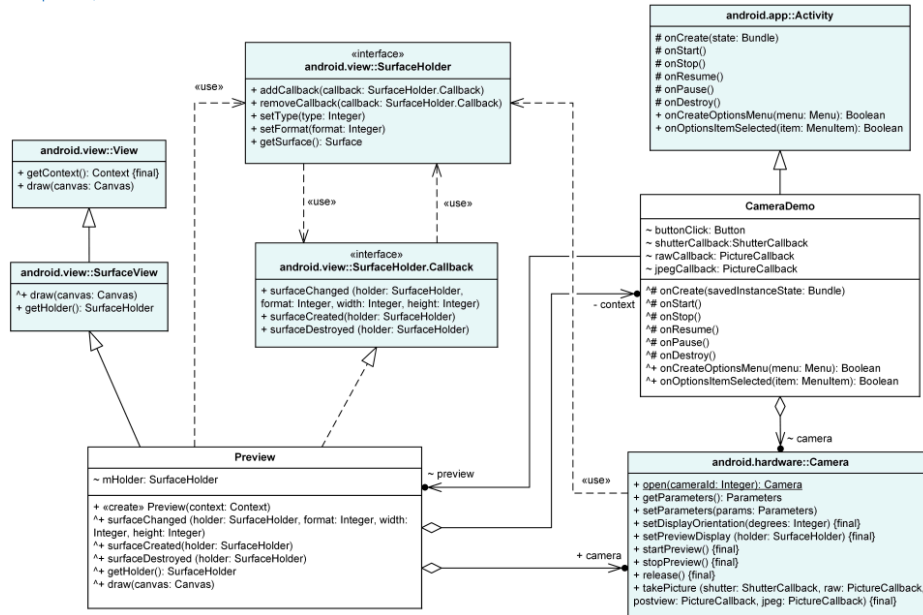
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Không chính xác

Điểm 0,00 của 1,00

Which of the following is correct about the class relationship in Fig5.2.2.1 (<https://www.uml-diagrams.org/android-camera-uml-class-diagram-example.html>)?



Chọn một:

- ☐ a. Preview is a sub-class of android.view.SurfaceView and implement the interface android.view.SurfaceHolder.Callback.
- ☐ b. All the other answers are correct.
- ☒ c. Preview is a sub-class of android.view.SurfaceHolder.Callback and implement the interface android.view.SurfaceView. ✖
- ☐ d. android.view.SurfaceHolder is the super-class of android.view.SurfaceHolder.Callback.

Không chính xác

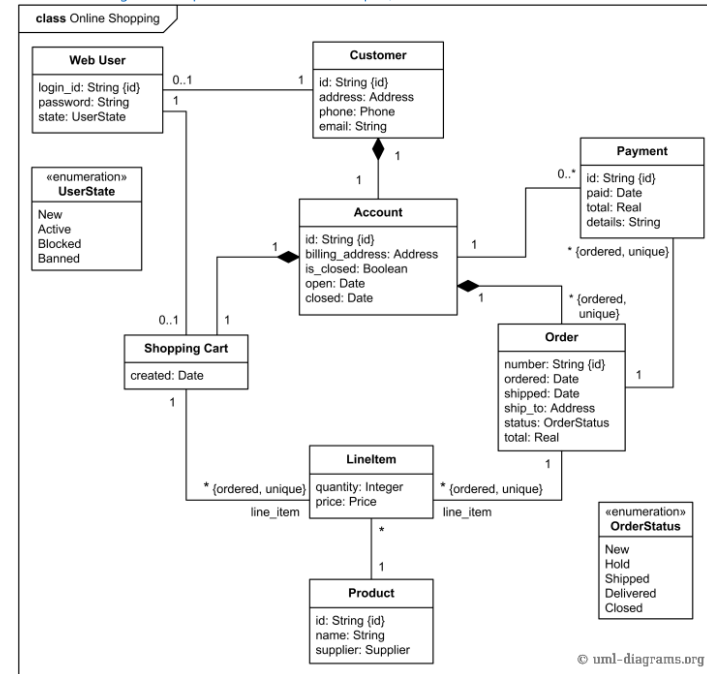
Điểm cho bài nộp này: 0,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following is INCORRECT about the class relationship in Fig5.2.2.5 (<https://www.uml-diagrams.org/examples/online-shopping-domain-uml-diagram-example.html?context=cls-examples>)?



Chọn một:

- ☒ a. A ShoppingCart object will generate an Order object. ✔
- ☐ b. A ShoppingCart object has many LineItem objects, each is a Product object.
- ☐ c. An Order object has many LineItem objects, each is a Product object.
- ☐ d. An Order may have no or many Payment.

Chính xác

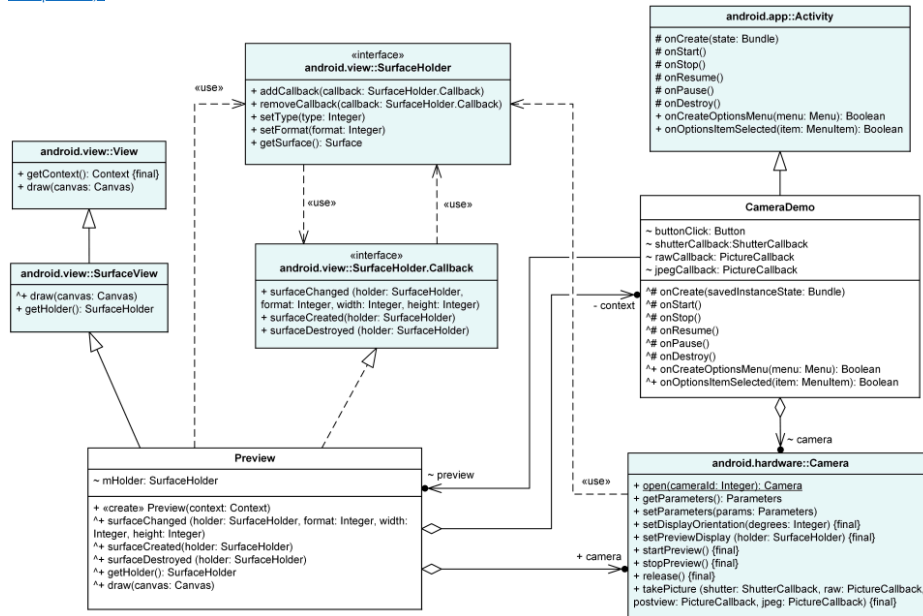
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct about the class relationship in Fig5.2.2.3 (<https://www.uml-diagrams.org/android-camera-uml-class-diagram-example.html>)?



Chọn một:

- ☐ a. We have to implement all methods of android.view.SurfaceHolder.Callback in Preview.
- ☐ b. We cannot implement any method of android.view.SurfaceView in Preview (except overriding).
- ☐ c. We cannot implement any method of android.view.SurfaceHolder in Preview.
- ☒ d. All the other answers are correct. ✓

Chính xác

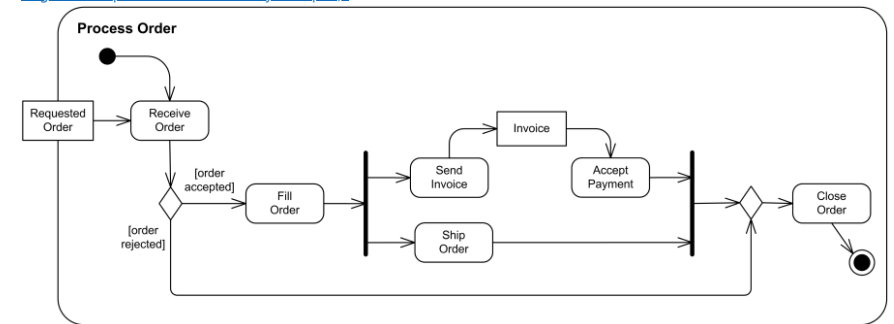
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct about the activity diagram in Fig5.2.2.6 (<https://www.uml-diagrams.org/shopping-process-order-uml-activity-diagram-example.html?context=activity-examples>)?



Chọn một:

- ☐ a. Activities "Send Invoice" and "Ship Order" are performed in parallel.
- ☐ b. "Receive Order", "Fill Order" are activities.
- ☐ c. The activity "Close Order" can only be performed after all activities "Accept Payment" and "Ship Order" are completed.
- ☒ d. All the other answers are correct. ✓

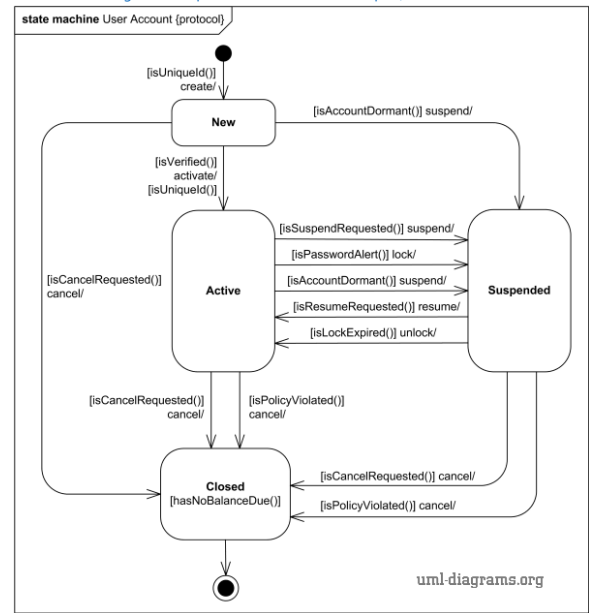
Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác
Điểm 1,00 của 1,00

Which of the following is CORECT about the state-chart diagram in Fig5.2.2.9 (<https://www.uml-diagrams.org/examples/online-shopping-user-account-state-diagram-example.html?context=stm-examples?>)?



Chọn một:

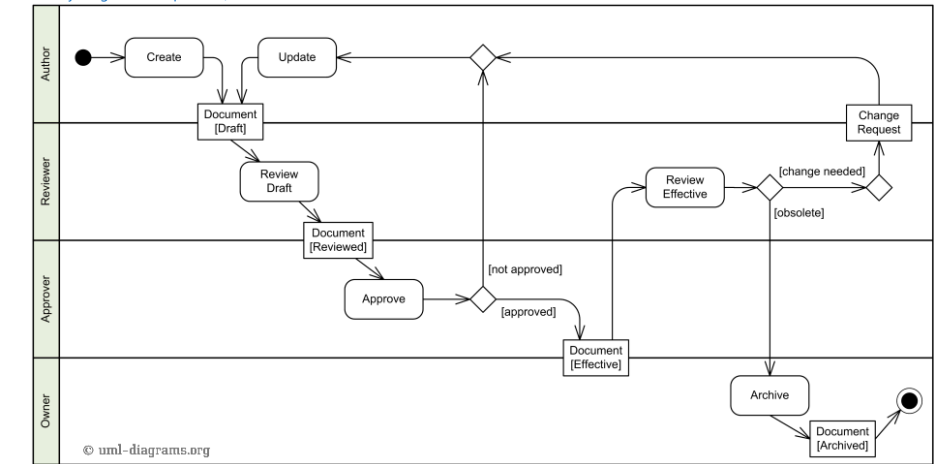
- ☐ a. When in Active state, a user account can be changed into Suspended state on some event such as "suspend" and "lock".
- ☒ b. All the other answers are correct. ✓
- ☐ c. After creating a user account, it is in New state and can only be changed into Active state on an "activate" event.
- ☐ d. There are only four "real" states: New, Active, Suspended, Closed.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác
Điểm 1,00 của 1,00

Which of the following is CORECT about the activity diagram in Fig5.2.2.8 (<https://www.uml-diagrams.org/document-management-uml-activity-diagram-example.html?>)?



Chọn một:

- ☒ a. The role Author is in charged for only "Create" and "Update" activities. ✓
- ☐ b. All the other answers are correct.
- ☐ c. The role Receiver is also the role Approver.
- ☐ d. The "Change Request" is al so an activity.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Đã bắt đầu vào lúc	Chủ nhật, 15 Tháng mười 2023, 12:14 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 15 Tháng mười 2023, 12:17 PM
Thời gian thực hiện	3 phút 49 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

In software architecture design, which of the following decomposition approaches can be used?

- Chọn một:
- ☒ a. Minimum coupling (less inter-component connections/relations) and Maximum cohesion (more inner-component connection relations). ✓
 - ☐ b. None of the other answers is correct.
 - ☐ c. Balancing both inner-components and inter-components connections/relations (cohesion ~ coupling).
 - ☐ d. Maximum coupling (more inter-component connections/relations) and minimum cohesion (less inner-component connection relations).

Câu trả lời đúng là: Minimum coupling (less inter-component connections/relations) and Maximum cohesion (more inner-component connection relations).

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following relationships between architectural views and UML diagrams are correct?

- Chọn một:
- ☐ a. Logical: class diagram; process: sequence diagram; development: component diagram; physical: deployment.
 - ☒ b. Logical: class diagram; process: activity diagram; development: component diagram; physical: deployment. ✓
 - ☐ c. Logical: state-chart diagram; process: sequence diagram; development: component diagram; physical: deployment.
 - ☐ d. All the other answers are correct.

Câu trả lời đúng là: Logical: class diagram; process: activity diagram; development: component diagram; physical: deployment.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

The 4+1 (view) models in software architecture design are ____.

- Chọn một:
- ☐ a. All the other answers are correct.
 - ☐ b. Context, Interaction, Behavioral, State, and Data.
 - ☐ c. Static, Dynamic, Process, Implementation, and Deployment.
 - ☒ d. Logical, Process, Development, Physical, and Use-case or Scenario. ✓

Câu trả lời đúng là: Logical, Process, Development, Physical, and Use-case or Scenario.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

Software architectures ____.

Chọn một:

- ☒ a. Are high-level/abstraction designs. ✓
- ☐ b. Are low-level designs to program.
- ☐ c. All the other answers are correct.
- ☐ d. Model the connections between hardware/components.

Câu trả lời đúng là: Are high-level/abstraction designs.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the following is NOT acceptable in software architecture decision?

Chọn một:

- ☒ a. Use important and non-replaceable components to make the system stable for increase the maintainability. ✓
- ☐ b. Localize safety-critical features in a small number of sub-systems to increase safety.
- ☐ c. Critical components should be deployed on the same machine rather than distributed around the network to have better performance.
- ☐ d. Secure important components for security.

Câu trả lời đúng là: Use important and non-replaceable components to make the system stable for increase the maintainability.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following is acceptable in software architecture decision?

Chọn một:

- ☐ a. Localizing the kernel functions and minimizing the interaction between components to increase the performance.
- ☐ b. Making layers to hide key component/data to increase the Security.
- ☐ c. Accepting duplicated components to increase the Availability
- ☒ d. All the other answers are correct. ✓

Câu trả lời đúng là: All the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Software architecture is decided based on ____.

Chọn một:

- ☒ a. All the other answers are correct. ✓
- ☐ b. Functional and non-functional requirements.
- ☐ c. Pre-defined decision criteria
- ☐ d. Application types and equivalent architectures.

Câu trả lời đúng là: All the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Software architecture design is ____.

Chọn một:

- ☐ a. Often carried out in parallel with some specification activities.
- ☐ b. An early stage in software design
- ☐ c. Basically to identify major system components and their communications
- ☒ d. All the other answers are correct. ✓

Câu trả lời đúng là: All the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which is INCORRECT about the 4+1 (view) models in software architecture.

Chọn một:

- ☐ a. Logical view shows the key abstractions in the system as objects and classes.
- ☒ b. Development or Implementation view is for presenting how the components/sub-systems are distributed around the network. ✓
- ☐ c. Process view shows how, at runtime, the system is composed of interacting processes.
- ☐ d. Use-case view shows the use-cases or scenarios.

Câu trả lời đúng là: Development or Implementation view is for presenting how the components/sub-systems are distributed around the network.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

What is an architectural pattern?

Chọn một:

- ☒ a. Stylized description of any good (architectural) design practice, which has been tried and tested in different environments. ✓
- ☐ b. None of the other answers is correct.
- ☐ c. Stylized description of any good example about implementing computer program.
- ☐ d. Stylized description of any good example about designing a user user interface.

Câu trả lời đúng là: Stylized description of any good (architectural) design practice, which has been tried and tested in different environments.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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Đã bắt đầu vào lúc	Chủ nhật, 22 Tháng mười 2023, 7:54 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 22 Tháng mười 2023, 7:57 PM
Thời gian thực hiện	3 phút 29 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

To increase performance, which of the following is a good choice?

- Chọn một:
- ☐ a. Hide kernel functions in deep layers.
 - ☐ b. All the other answers are correct.
 - ☒ c. Localizing the kernel functions and minimizing the interaction between components.
 - ☐ d. Duplicate kernel functions.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following architectural pattern can be used in general for information systems (multi-users, centralized data)?

- Chọn một:
- ☐ a. Client-server architecture: clients are applications and the server is only for data.
 - ☐ b. All the architectures in the other answers are good to be used.
 - ☐ c. Language processing system architecture: the Translator component is for checking syntax and semantic from the users, the Interpreter component is for executing verified commands from the users.
 - ☒ d. Layer architecture: user interface, user communications (and authentication), information retrieval, and system database layers.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Suppose that we can only have the following architectures for an online course registration system, which is the best selection?

- Chọn một:
- ☒ a. Layer, the user-interface is on web: allows multi-platform and mutual registration (courses have limited number of seats).
 - ☐ b. All the other answers are correct.
 - ☐ c. Compiler: allows to compile the registration into the language that can be understood by the system.
 - ☐ d. Client-server, students can install the software on their personal computer/laptop: maximize the computation in the personal computer/laptop.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

To increase security, which of the following is a good choice?

- Chọn một:
- ☐ a. Localizing the key components/data and minimizing the interaction between those components.
 - ☐ b. Duplicate key components/data.
 - ☐ c. All the other answers are correct.
 - ☒ d. Hide key components/data in layers.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

To increase safety, which of the following is a good choice?

Chọn một:

- ☒ a. Localize safety-critical features in a small number of sub-system.
- ☐ b. All the other answers are correct.
- ☐ c. Use fine-grain, replaceable components.
- ☐ d. Duplicate key components.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct about using architectural patterns?

Chọn một:

- ☒ a. None of the other answers is correct.
- ☐ b. In a software, only one pattern can be used.
- ☐ c. Only famous patterns can be used.
- ☐ d. Each pattern can only be implemented in some programming language.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Suppose that we can only have the following architectures for a university management system, which is the best selection?

Chọn một:

- ☐ a. Client-server, each client is a computation station and the server is to provide and collect data: maximize the computation in the client.
- ☒ b. Repository: data and kernel components can be in the repository and other sub-systems can be separated.
- ☐ c. Compiler: allow to compile data and computational results.
- ☐ d. MVC: the university data as model, kernel functions as controllers and others are views.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Suppose that we can only have the following architectures for a child tracking app running on a mobile device, which is the best selection?

Chọn một:

- ☐ a. Client-server, each client is a computation station and the server is to provide and collect data: maximize the computation in the client.
- ☐ b. Repository: data and kernel components can be in the repository and other sub-systems can be separated.
- ☒ c. MVC: Model-View-Controller.
- ☐ d. Compiler: allow to compile data and computational results.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Đã bắt đầu vào lúc	Thứ ba, 31 Tháng mười 2023, 10:09 AM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ ba, 31 Tháng mười 2023, 10:15 AM
Thời gian thực hiện	5 phút 43 giây
Điểm	9,00 của 10,00 (90%)

Câu hỏi 1

Hoàn thành
Điểm 1,00 của 1,00

(Module/Component) Interface specification is necessary. Why?

- Chọn một:
- ☐ a. Modules/components can be developed concurrently (in parallel)
 - ☒ b. All of the other answers are correct.
 - ☐ c. In some case, each module/component can be upgraded continuously and independently
 - ☐ d. Modules/components can hide their private attributes/methods

Câu hỏi 2

Hoàn thành
Điểm 1,00 của 1,00

The design models ____.

- Chọn một:
- ☒ a. All of the other answers are correct.
 - ☐ b. consist of static models representing static structure, and dynamic models representing dynamic interactions between objects.
 - ☐ c. have to be abstract to show the relationships between entities and the system requirements; and have to include enough detail for programmers to make implementation decisions.
 - ☐ d. show the objects and object classes and relationships between these entities

Câu hỏi 3

Hoàn thành
Điểm 1,00 của 1,00

Which of the following is the best opinion on software design?

- Chọn một:
- ☐ a. The software designers do not need to care about implementing when they design the software.
 - ☐ b. Architectural design is not a part of software design.
 - ☐ c. Designing classes and their methods is responsible only by the requirement analyst.
 - ☒ d. Designing module/component interface is a part of software design.

Câu hỏi 4

Hoàn thành
Điểm 1,00 của 1,00

Which of the following is INCORRECT?

- Chọn một:
- ☒ a. A software design has to have all sequence diagrams, collaboration diagrams, activity diagrams, state-chart diagrams and use-case diagram.
 - ☐ b. It is possible to convert a sequence diagram to a collaboration diagram (without any more information).
 - ☐ c. Classes are necessary in object-oriented software design.
 - ☐ d. Activity diagram represents activities of the system.

Câu hỏi 5

Hoàn thành
Điểm 1,00 của 1,00

Which of the following is correct?

- Chọn một:
- ☒ a. In designing a software, it is necessary to ensure that the software can be implemented successfully (under constraints on human power, resources, budgets and project duration).
 - ☐ b. We do not need details in designing stage, it is possibly changed in programming stage.
 - ☐ c. We shall program a software before writing down the design to ensure that the source code and the design document are matched.
 - ☐ d. We only need some general idea (written) in the design document, all details must be discussed in the meeting with the developer team.

Câu hỏi 6

Hoàn thành

Điểm 1,00 của 1,00

Which of the following opinion about software design is acceptable?

Chọn một:

- ☐ a. Software design = software architecture design.
- ☐ b. Detail design is not required when the programmers know how to build the software.
- ☒ c. None of the other answers is acceptable .
- ☐ d. When we use the best software design tool, we do not need to program because the best tool will generate the source code automatically.

Câu hỏi 7

Hoàn thành

Điểm 0,00 của 1,00

For design models, which of the following explanation is NOT quite correct?

Chọn một:

- ☐ a. Sequence model and State machine model are dynamic models
- ☐ b. Class diagram can be used to represent static models
- ☒ c. Use-case diagrams can be used to represent static models ✓
- ☐ d. We always need both static and dynamic models

Câu hỏi 8

Hoàn thành

Điểm 1,00 của 1,00

Which of the following explanations is correct?

Chọn một:

- ☐ a. State diagram is for representing the use-case of the system
- ☐ b. All of the other answers are correct.
- ☐ c. Interface specification is specification about user interface
- ☒ d. Sequence diagram describes interactions between components (chronologically)

Câu hỏi 9

Hoàn thành

Điểm 1,00 của 1,00

Which of the following explanation about software design is acceptable?

Chọn một:

- ☒ a. A detail sequence diagram usually show related classes and their methods
- ☐ b. For software that uses database system, each table in the database should be represented by a class and each table column should be represented by one and only one class member/attribute.
- ☐ c. Design all classes and class diagram first, and then the other diagrams.
- ☐ d. All of the other answers are correct.

Câu hỏi 10

Hoàn thành

Điểm 1,00 của 1,00

Which of the following explanation about design models is NOT quite correct?

Chọn một:

- ☐ a. Subsystem models show logical groupings of objects into coherent subsystems and can be represented using package diagrams.
- ☒ b. Inter-connection models show logical communications of the system.
- ☐ c. Sequence models show the sequence of object interactions and can be represented using sequence/collaboration diagrams
- ☐ d. State machine models show how individual objects change their state in response to events and can be represented using state-chart diagrams.

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Đã bắt đầu vào lúc	Thứ ba, 7 Tháng mười một 2023, 4:18 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ ba, 7 Tháng mười một 2023, 4:24 PM
Thời gian thực hiện	5 phút 55 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác

Điểm 1,00 của 1,00

Which of the following about class diagrams in a design document is correct?

Chọn một:

- ☐ a. All the other answers are correct.
- ☐ b. May need only an entity class diagram
- ☐ c. Each kind of the classes such as entity/model, boundary/view and controller is provided in a separated class diagram.
- ☒ d. In a system that interacts with end-users, boundary/view classes must be designed.✔

Câu trả lời đúng là: In a system that interacts with end-users, boundary/view classes must be designed.

Câu hỏi 2

Chính xác

Điểm 1,00 của 1,00

Which of the following about diagrams in a design document is correct?

Chọn một:

- ☐ a. Class diagrams describe attributes and methods to implement the system.
- ☐ b. Sequence diagrams (if any) show interactions between system components.
- ☒ c. All the other answers are correct.✔
- ☐ d. Class diagrams show descriptions about classes and their relationships.

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 3

Chính xác

Điểm 1,00 của 1,00

In the following description, which object classes can be defined? "The university is going to build a smart campus system (SCAMS) to make the university smart. In 2019, the system is for the lecture halls, to control the doors, lights, fans, sound systems, projectors, and camera automatically based on the room schedule and the detecting of human."

Chọn một:

- ☐ a. All object classes from the other answers.
- ☒ b. LectureHall, Door, Light, Fan, SoundSystem, Projector, Camera, RoomSchedule.✔
- ☐ c. Door, Light, Fan, SoundSystem, Projector, Camera.
- ☐ d. LectureHall, Door, Light, Fan, SoundSystem, Projector, Camera, RoomSchedule, HumanDetectingService.

Câu trả lời đúng là: LectureHall, Door, Light, Fan, SoundSystem, Projector, Camera, RoomSchedule.

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

In the following description, which object classes can be defined? "The book management system needs to manage information about book including name, year of publishing, number of pages, publisher, and authors. Notes that, a publisher may publish many book; a book can be written by many authors and an author may write many books."

Chọn một:

- ☒ a. Book, Publisher, Author.✔
- ☐ b. Book, NameOfBook, YearOfPublishing, NumberOfPage, Publisher, Author.
- ☐ c. All the other answers are correct.
- ☐ d. Book, YearOfPublishing, NumberOfPage, Publisher, Author.

Câu trả lời đúng là: Book, Publisher, Author.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the following in software detail design is INCORRECT?

Chọn một:

- ☐ a. Class methods shall be described clearly (such that they can be implemented correctly).
- ☒ b. Each table in the database needs at least one corresponding class in the software. ✓
- ☐ c. A detail design document includes all classes and their methods.
- ☐ d. There is possibly some classes that have no methods.

Câu trả lời đúng là: Each table in the database needs at least one corresponding class in the software.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following about diagrams in a design document is INCORRECT?

Chọn một:

- ☐ a. State-chart diagrams may be provided to represent states and the state transitions.
- ☒ b. Collaboration diagrams should be accompanied by sequence diagrams. ✓
- ☐ c. Activity diagrams may be provided to represent the activities of (part of) the system.
- ☐ d. Sequence diagrams must be provided to represent interactions between components.

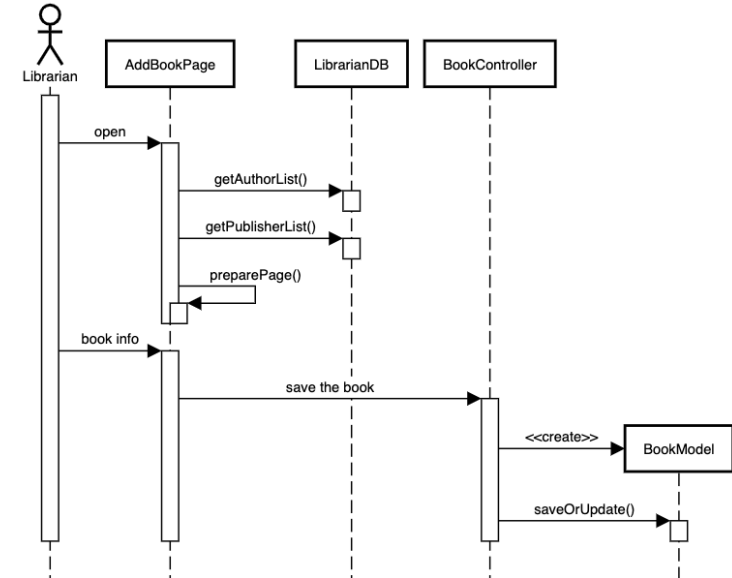
Câu trả lời đúng là: Collaboration diagrams should be accompanied by sequence diagrams.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

In the sequence diagram in Fig7.1.2.1, which of the following is INCORRECT?



Chọn một:

- ☐ a. On opening, the AddBookPage calls getAuthorList and getPublisherList methods from the class LibrarianDB before calling its own method preparePage.
- ☒ b. The message "save the book" is good definition of an operation at design level. ✓
- ☐ c. All component names must be in format "[object]:Component" such as ":LibrarianDB", "bm:BookModel".
- ☐ d. The Librarian triggers the sequence diagram.

Câu trả lời đúng là: The message "save the book" is good definition of an operation at design level.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following about state diagram in software design is INCORRECT?

Chọn một:

- ☐ a. Are useful high-level models of a system or an object's run-time behavior.
- ☐ b. Events on transitions have to be defined clearly.
- ☒ c. We have to provide a state diagram for all of the objects in the system. ✓
- ☐ d. Used to show how objects respond to different service requests and the state transitions triggered by these requests.

Câu trả lời đúng là: We have to provide a state diagram for all of the objects in the system.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which of the following comparing sequence diagram in software specification and design is correct?

Chọn một:

- ☐ a. In specification, the interactions in a sequence diagram are usually general operations, not detail class methods as in detailed design.
- ☐ b. In design, the "internal components" in a sequence diagram are classes/objects.
- ☐ c. There may be no actor.
- ☒ d. All the other answers are correct. ✓

Câu trả lời đúng là: All the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Which of the following about class diagrams in a design document is NOT quite correct?

Chọn một:

- ☐ a. Need the descriptions of all methods.
- ☐ b. Need the descriptions of all attributes.
- ☒ c. Need examples of using classes. ✓
- ☐ d. May need descriptions about the classes.

Câu trả lời đúng là: Need examples of using classes.

Đã bắt đầu vào lúc	Thứ hai, 25 Tháng mười hai 2023, 8:23 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ hai, 25 Tháng mười hai 2023, 8:26 PM
Thời gian thực hiện	3 phút 24 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Which of the following about design pattern is correct?

- Chọn một:
- ☒ a. All of the other answers are correct.✔
 - ☐ b. A design pattern is a way of reusing abstract knowledge about a problem and its solution.
 - ☐ c. A problem can be solved by one ore more design patterns.
 - ☐ d. A design pattern is a description of the problem and the essence of its solution.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following about design pattern is INCORRECT?

- Chọn một:
- ☐ a. Must describe both the problem and the solution.
 - ☐ b. May describe the results of applying the pattern.
 - ☐ c. May show the trade-offs of applying the pattern
 - ☒ d. Must provide the source code of the pattern to the users✔

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

To apply a design pattern, ____.

- Chọn một:
- ☒ a. We need to recognize that any design problem you are facing may have an associated pattern that can be applied.✔
 - ☐ b. We need to ask the programmers which design pattern they are familiar with.
 - ☐ c. We need to ask the customers which design pattern they don't want to use.
 - ☐ d. All of the other answers are correct.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Which of the following diagrams CANNOT be in a design document?

- Chọn một:
- ☒ a. Use-case diagram.✔
 - ☐ b. State-chart diagram.
 - ☐ c. Activity diagram.
 - ☐ d. Sequence/collaboration diagram.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

What is INCORRECT about open-source development?

Chọn một:

- ☒ a. Volunteer developers are NOT users of the code. ✓
- ☐ b. Many important open source products used widely in the world: Java, Linux, MySQL.
- ☐ c. Volunteers are invited to participate in the development process.
- ☐ d. The source code of a software system is published.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Which of the following about design pattern is INCORRECT?

Chọn một:

- ☐ a. Can be implemented in more than programming languages
- ☐ b. Usually be accompanied by examples of applying the pattern in practice.
- ☒ c. A design pattern can only be used for exactly the described problem. ✓
- ☐ d. Can only be used when the consequence has no bad effect to the design.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

What can be re-use in software engineering?

Chọn một:

- ☐ a. Component level: Collections of objects and object classes that you reuse in application systems.
- ☐ b. Object level: Directly reuse objects from a library rather than writing the code yourself.
- ☒ c. All of the other answers are correct. ✓
- ☐ d. Abstraction level: No software is reused directly but knowledge of successful abstractions in the design of your software.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

In the design pattern Observer ____.

Chọn một:

- ☒ a. All of the other answers are correct. ✓
- ☐ b. The ConcreteObserver automatically displays the state and reflects changes whenever the state is updated.
- ☐ c. There are two abstract objects, Subject and Observer, and two concrete objects, ConcreteSubject (inherits Subject) and ConcreteObserver (inherits Observer).
- ☐ d. The ConcreteSubject can add and remove Observers (ConcreteObserver) and to issue a notification when the state has changed.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

What would be considered about license in open-source development?

Chọn một:

- ☒ a. There are some license models such as GPL, LGPL, BSD for software license on using, development and distribution. ✓
- ☐ b. Free to use, but need an agreement from the authors before changing the source code.
- ☐ c. Open-source has no license, do not need to care about the license.
- ☐ d. Only need to reference (to the original), do not need to care anything else.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Which of the following about the design pattern Observer is correct?

Chọn một:

- ☐ a. Separates the display of object state from the object itself and allows multiple displays of state of an object.
- ☐ b. Increase the "minimal coupling" between Subject and Observer: The subject does not require knowledge of the observer; and the observer only needs to know how to get new data.
- ☐ c. When the object changes (its state), the displays will be notified and update.
- ☒ d. All of the other answers are correct. ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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Đã bắt đầu vào lúc	Thứ hai, 25 Tháng mười hai 2023, 8:27 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Thứ hai, 25 Tháng mười hai 2023, 8:29 PM
Thời gian thực hiện	2 phút 45 giây

Câu hỏi 1

Hoàn thành
Chấm điểm của 1,00

The design pattern Facade ____ .

Chọn một:

- ☒ a. All of the other answers are correct.
- ☐ b. Reduce dependencies of outside code on the inner workings of a library, since most code uses the Facade, thus allowing more flexibility in developing the system.
- ☐ c. Provides a simplified interface to a larger body of code, such as a class library.
- ☐ d. Wrap a poorly designed collection of APIs with a single well-designed API.

Câu hỏi 2

Hoàn thành
Chấm điểm của 1,00

The design pattern Singleton ____ .

Chọn một:

- ☐ a. Wrap a poorly designed collection of APIs with a single well-designed API.
- ☐ b. All of the other answers are correct.
- ☒ c. Ensures that a class has only one instance and allows the instance of the class be accessed easily.
- ☐ d. Reduce dependencies of outside code on the inner workings of a library,

Câu hỏi 3

Hoàn thành
Chấm điểm của 1,00

The design pattern Adapter ____ .

Chọn một:

- ☒ a. Adapts the interface of an (already existing) class without changing it.
- ☐ b. Reduce dependencies of outside code on the inner workings of a library,
- ☐ c. All of the other answers are correct.
- ☐ d. Wrap a poorly designed collection of APIs with a single well-designed API.

Câu hỏi 4

Hoàn thành
Chấm điểm của 1,00

Which of the following choices of Client-server, Facade, Iterator is the best?

Chọn một:

- ☐ a. Notify multiple object about the changes of an object: Client-server
- ☒ b. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Iterator
- ☐ c. Extend the (module/component) interface of a developing object: Facade
- ☐ d. The choices in all of the other answers are all good.

Câu hỏi 5

Hoàn thành
Chấm điểm của 1,00

Which of the following choices of MVC, Adapter is the best?

Chọn một:

- ☒ a. The choices in all of the other answers are all good.
- ☐ b. Make new (composite) method from incompatible methods: Adapter
- ☐ c. Change the name or make new interface for an old object: Adapter
- ☐ d. Separate models, views, and controllers: MVC (model-view-controller)

Câu hỏi 6

Hoàn thành

Chấm điểm của 1,00

Which of the following choices of Observer, Facade, Decorator is the best?

Chọn một:

- ☐ a. Extend the (module/component) interface of a developing object: Facade
- ☐ b. Notify multiple object about the changes of an object: Observer
- ☐ c. Separate models, views, and controllers: Decorator
- ☐ d. The choices in all of the other answers are all good.

Câu hỏi 7

Hoàn thành

Chấm điểm của 1,00

The design pattern Decorator ____.

Chọn một:

- ☐ a. Responsibilities should be added to (and removed from) an object dynamically at run-time.
- ☐ b. All of the other answers are correct.
- ☐ c. Reduce dependencies of outside code on the inner workings of a library.
- ☐ d. Ensures that a class has only one instance and allows the instance of the class be accessed easily.

Câu hỏi 8

Hoàn thành

Chấm điểm của 1,00

Which of the following choices of Observer, Iterator, Decorator is the best?

Chọn một:

- ☐ a. Allow to extend functions of a class at run-time: Decorator
- ☐ b. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Iterator
- ☐ c. The choices in all of the other answers are all good.
- ☐ d. Notify multiple object about the changes of an object: Observer

Câu hỏi 9

Hoàn thành

Chấm điểm của 1,00

Which of the following choices of Decorator, Facade, Interpreter is the best?

Chọn một:

- ☐ a. Reduce the (module/component) interface of a developing object: Facade
- ☐ b. The choices in all of the other answers are all good.
- ☐ c. Separate data and controller: Decorator
- ☐ d. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Interpreter

Câu hỏi 10

Hoàn thành

Chấm điểm của 1,00

Which of the following in software detail design is correct?

Chọn một:

- ☐ a. In separating model-view-controller (as in MVC model), all classes for model, view and controller shall be designed (described).
- ☐ b. All the other answers are correct.
- ☐ c. There may be more than one view class controlled by a single controller class in MVC model.
- ☐ d. In working with data, we need to design (describe) data loading/storing operators/methods.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:12 PM
Thời gian thực hiện	2 phút 49 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác

Điểm 1,00 của 1,00

What are advantages/disadvantages in documenting and commenting the source code?

Chọn một:

- ☐ a. The more the explanation (especially in mother tongue languages), the easier the understanding
- ☐ b. Make source code be tidy and short.
- ☐ c. All of the other answers are correct.
- ☒ d. Easy to read and understand before reusing or modifying the source code but costly in documenting and commenting✔

Câu trả lời đúng là: Easy to read and understand before reusing or modifying the source code but costly in documenting and commenting

Câu hỏi 2

Chính xác

Điểm 1,00 của 1,00

Coding standards/Coding convention ____ .

Chọn một:

- ☐ a. Is a set of programming guidelines such as programming styles, programming practices and programming methodologies.
- ☒ b. All of the other answers are correct.✔
- ☐ c. May different in different programming languages.
- ☐ d. Consists of the standards on naming convention for class, attribute, method, ...

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 3

Chính xác

Điểm 1,00 của 1,00

Which of the following is NOT correct in code inspection?

Chọn một:

- ☐ a. Can not replace the software testing
- ☐ b. Need an inspection checklist
- ☒ c. Have to outsource the code inspection to the outside inspectors✔
- ☐ d. Can reveal defeats in programming

Câu trả lời đúng là: Have to outsource the code inspection to the outside inspectors

Câu hỏi 4

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct?

Chọn một:

- ☒ a. All of the other answers are correct.✔
- ☐ b. One way to calculate the lines of code (LOC) is to count all source code lines (of programming statements), except all blank and comment lines.
- ☐ c. The larger the number of lines of code (LOC), the more complex the program is.
- ☐ d. One way to calculate the lines of code (LOC) is to count all lines in the source code, except open/close block lines (such as lines of only 't' or '}' in Java).

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the following is needed in integration?

Chọn một:

- ☐ a. Modules used by other modules may need to be built first.
- ☒ b. All of the other answers are correct.✔
- ☐ c. Early integration for reducing risks.
- ☐ d. High risk parts should be built and integrated early.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

What is the GOLDEN rule in software development?

Chọn một:

- ☐ a. Can use all software frameworks, professionally.
- ☐ b. Code as required by software testers.
- ☒ c. Design based only on the requirement specification, code/program against the design. ✓
- ☐ d. All of the other answers are correct.

Câu trả lời đúng là: Design based only on the requirement specification, code/program against the design.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which of the following is NOT correct in documenting in the source code?

Chọn một:

- ☐ a. Explanation of parameters of methods/procedures/functions
- ☒ b. Must have usage examples ✓
- ☐ c. Description of methods/procedures/functions
- ☐ d. May show some errors in using the code

Câu trả lời đúng là: Must have usage examples

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which part of the code we could inspect to increase the correctness?

Chọn một:

- ☒ a. All of the other answers are correct. ✓
- ☐ b. Class and class attributes.
- ☐ c. Method headers and method bodies.
- ☐ d. Class constructors.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct in software implementation?

Chọn một:

- ☐ a. Implementation = unit implementation + integration
- ☒ b. All of the other answers are correct. ✓
- ☐ c. Well understanding any piece of code before re-using it
- ☐ d. Prior to implementation, susses programmers need to understand well the detail design, implementation plan and programming standards

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

What is code integration?

Chọn một:

- ☐ a. Compile codes on different hardware to make sure it works well.
- ☐ b. All of the other answers are correct.
- ☒ c. Merge separated codes that developed by several developers into one. ✓
- ☐ d. Each developer has his/her own version of the main code.

Câu trả lời đúng là: Merge separated codes that developed by several developers into one.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:15 PM
Thời gian thực hiện	3 phút 16 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

In the Java programming language, which of the following naming convention is suggested to be used?

- Chọn một:
- ☒ a. All of the other answers are correct.✔
 - ☐ b. A method name starts by a lowercase character and joins initialized words (camelCase), for example 'getListOfStudent(Course course)'
 - ☐ c. A variable name starts by a lowercase character and joins initialized words (camelCase), for example 'queryResult'.
 - ☐ d. An attribute name starts by an underscore character, for example '_numberOfCredit'.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

How to do "Think globally, program locally"?

- Chọn một:
- ☐ a. Make all members as local as possible.
 - ☐ b. Only allow accessing to attributes through more public accessor functions if required.
 - ☒ c. All of the other answers are correct.✔
 - ☐ d. Make all members as invisible as possible.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

What are good practice in handling exceptions?

- Chọn một:
- ☐ a. Don't need to be reasonable about exceptions callers must handle.
 - ☐ b. All of the other answers are correct.
 - ☐ c. Substitute the use of exceptions for issue that will be the subject of testing.
 - ☒ d. Catch only those exceptions that you know how to handle.✔

Câu trả lời đúng là: Catch only those exceptions that you know how to handle.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

How to do "Enforce intentions"?

- Chọn một:
- ☐ a. If your code is intended to be used in particular ways only, write it so that the code cannot be used in any other way.
 - ☒ b. All of the other answers are correct.✔
 - ☐ c. Use qualifiers such as final and abstract etc. to enforce intentions.
 - ☐ d. If a member is not intended to be used by other functions, enforce this by making it private or protected etc.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct in implementation?

Chọn một:

- ☐ a. JavaDoc tags are only in comments and have to be counted in the number of lines of code (LOC) of a program.
- ☒ b. Using JavaDoc tags (such as @return, @see, ...) in commenting the code is a very good way in generating technical document about classes and their methods using JavaDoc tool. ✓
- ☐ c. All of the other answers are correct.
- ☐ d. JavaDoc tags are user defined tags as long as they are preceded by '@' (for example, a user may use '@facebook' as a new JavaDoc tag)

Câu trả lời đúng là: Using JavaDoc tags (such as @return, @see, ...) in commenting the code is a very good way in generating technical document about classes and their methods using JavaDoc tool.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

What are benefits of early code integration?

Chọn một:

- ☐ a. All of the other answers are correct.
- ☒ b. Exercising key risky parts of the application as early as possible. ✓
- ☐ c. Build and integrate modules after modules that use them.
- ☐ d. Make the full version early to the customer.

Câu trả lời đúng là: Exercising key risky parts of the application as early as possible.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Suppose that we are developing a class of common attributes of the software, which of the followings is acceptable?

Chọn một:

- ☒ a. Make all members invisible and provide public accessor functions to them. ✓
- ☐ b. All of the other answers are correct.
- ☐ c. Make all members statics.
- ☐ d. Make all members visible.

Câu trả lời đúng là: Make all members invisible and provide public accessor functions to them.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the following is acceptable in initializing attributes of a class?

Chọn một:

- ☐ a. No need to initialize when most of the programming languages initialize attribute automatically.
- ☐ b. Only initialize object (of a class) attributes.
- ☐ c. All of the other answers acceptable.
- ☒ d. Always initialize attributes. ✓

Câu trả lời đúng là: Always initialize attributes.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Suppose that we are creating a class that have a method to collect data from all workstations, which of the followings is a good name of the method?

Chọn một:

- ☐ a. collectingDataFromWorkstation.
- ☒ b. collectDataFromWorkstation. ✓
- ☐ c. All from the other answers are excellent names.
- ☐ d. CollectingDataFromWorkstation.

Câu trả lời đúng là: collectDataFromWorkstation.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Suppose that we are developing a factorial function ($n!$) that has no definition for negative input ($n < 0$), which of the following of handling exceptions is reasonable?

Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. Throw an exception about it anyway.
- ☒ c. Only throw an exception for negative input if it is defined on the function specification. ✓
- ☐ d. Print the system standard output a message when n is negative.

Câu trả lời đúng là: Only throw an exception for negative input if it is defined on the function specification.

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Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:42 PM
Thời gian thực hiện	5 phút 55 giây
Điểm	8,00 của 10,00 (80%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

The re-engineering ____.

Chọn một:

- ☐ a. can use the reverse engineering techniques in re-structuring and re-documenting for a better performance in maintenance.
- ☐ b. is for re-structuring/re-programming parts or all of a software/system without changing its functionalities.
- ☐ c. is for a situation when the maintenance is performed regularly in parts or all of a software/system.
- ☒ d. All that of the other answers.✔

Câu trả lời đúng là: All that of the other answers.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

Which of the following is correct in requirement testing?

Chọn một:

- ☐ a. Customers test for they requirements.
- ☒ b. Examining each requirement and develop a test or tests for it.✔
- ☐ c. Project managers test before release the software.
- ☐ d. All of the other answers are correct

Câu trả lời đúng là: Examining each requirement and develop a test or tests for it.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

The testing activities are ____.

Chọn một:

- ☐ a. Compatible testing, installation testing, and performance testing.
- ☐ b. Unit testing, integration testing and user interface testing.
- ☐ c. Development testing, release testing and user/accepting testing.
- ☒ d. All of the other answers are correct.✔

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

Which of the following process should be used in software testing?

Chọn một:

- ☐ a. All of the other answers are correct.
- ☐ b. Test-case generating -> Testing -> Bug finding -> Bug fixing -> Result report
- ☐ c. Programming -> Testing -> Test-case generating -> Result report
- ☒ d. Test-case design -> Test-data preparation -> Testing -> Result report✔

Câu trả lời đúng là: Test-case design -> Test-data preparation -> Testing -> Result report

Câu hỏi 5

Chính xác
Điểm 1,00 của 1,00

Which of the following is correct?

Chọn một:

- ☒ a. The black/white-box testing methods can be used to test fully developed software.✔
- ☐ b. In software testing, one can only use the white-box testing method whenever there is no defects/errors found by the black-box testing method.
- ☐ c. The white-box testing method considers only the inputs and outputs in testing, not the behaviors of the software.
- ☐ d. The black-box testing method can only be used in unit testing.

Câu trả lời đúng là: The black/white-box testing methods can be used to test fully developed software.

Câu hỏi 6

Không chính xác

Điểm 0,00 của 1,00

Refactoring _____.

Chọn một:

- ☐ a. is also a "preventative" maintenance approach to prevent the defects before they may occur.
- ☐ b. is a process of software improvement to minimize the defects that may occur in the future.
- ☐ c. All of that of the other answers.
- ☒ d. is for changing the source code to upgrade the structure, to decrease the complexity or to make it easier to understand, but does not change its functionalities. ❌

Câu trả lời đúng là: All of that of the other answers.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Which of the following is INCORRECT?

Chọn một:

- ☐ a. Feedbacks from customers will help upgrade/change the software.
- ☒ b. The quality of software does not changed in time, regardless the rapid change of the working environment. ❌
- ☐ c. In changing the working environment (OS, hardware, ...), software may need to be upgraded.
- ☐ d. Software updates may add more functionalities to the software.

Câu trả lời đúng là: The quality of software does not changed in time, regardless the rapid change of the working environment.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

Which of the followings are types of system test?

Chọn một:

- ☐ a. Security, Usability, Performance, Electric Power Consumption.
- ☐ b. Bug, Usability, Performance, Compatibility.
- ☐ c. All of the other answers are correct
- ☒ d. Security, Usability, Performance, Install-ability. ✅

Câu trả lời đúng là: Security, Usability, Performance, Install-ability.

Câu hỏi 9

Không chính xác

Điểm 0,00 của 1,00

Software maintenance types include ____.

Chọn một:

- ☐ a. Customer care, backup/recovery, repair.
- ☐ b. Repair, adaptation, upgrade.
- ☐ c. Installation, end-user training, backup/recovery.
- ☒ d. All types of the other answers. ❌

Câu trả lời đúng là: Repair, adaptation, upgrade.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

Which step in the evolution process is the most important step?

Chọn một:

- ☒ a. Impact analysis when it helps in pointing out things that need to be changed/upgraded for a new requirement. ✅
- ☐ b. Release a new version because we need to convince the customer.
- ☐ c. Fault repair when it helps fixing the fault.
- ☐ d. "Requirement receiving" when it helps to discover new requirements (including new functionalities/fixing).

Câu trả lời đúng là: Impact analysis when it helps in pointing out things that need to be changed/upgraded for a new requirement.

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Đã bắt đầu vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:24 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:32 PM
Thời gian thực hiện	8 phút 14 giây
Điểm	7,00 của 10,00 (70%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

For the function welcomeNew(String firstName, String lastName, int age, String gender, String occupation, String city) to print a welcome message to a new employee, what do we do when refactoring?

- Chọn một:
- ☐ a. Reduce as welcomeNew(String fullName) for short message.
 - ☐ b. All of that of the other answers.
 - ☐ c. Duplicate code to print also a welcome back message to an employee after vacation.
 - ☒ d. Make a new class Person consists of firstName, lastName, age, gender, occupation, and city; then change the function into welcomeNew(Person newEmployee). ✓

Câu trả lời đúng là: Make a new class Person consists of firstName, lastName, age, gender, occupation, and city; then change the function into welcomeNew(Person newEmployee).

Câu hỏi 2

Không chính xác
Điểm 0,00 của 1,00

In white-box testing method, ____.

- Chọn một:
- ☐ a. One can only need to cover all statements in testing to guarantee 100% statement coverage.
 - ☒ b. All of the other answers are correct. ✗
 - ☐ c. One can only need to run all test-cases to guarantee 100% decision coverage.
 - ☐ d. One only need to guarantee the 100% statement coverage and 100% decision coverage to confirm that there is no more defect/error of a software.

Câu trả lời đúng là: One can only need to cover all statements in testing to guarantee 100% statement coverage.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

For a legacy system with high quality but low business value, ____.

- Chọn một:
- ☐ a. simply replace it by another higher quality software even though the new software has less functionalities.
 - ☐ b. Any of the other answers.
 - ☐ c. re-engineer or replace by another software with higher quality and the same or more functionalities, if any.
 - ☒ d. replace with commercial off-the-shelf (COTS), remove it completely or maintain. ✓

Câu trả lời đúng là: replace with commercial off-the-shelf (COTS), remove it completely or maintain.

Câu hỏi 4

Không chính xác
Điểm 0,00 của 1,00

For the following requirement, which test-case(s) are good to use in testing? "If a patient is known to be allergic to any particular medication, then prescription of that medication shall result in a warning message being issued to the system user."

- Chọn một:
- ☐ a. All test-cases from the other answers are good.
 - ☐ b. Set up a patient record in which allergies to two drugs are recorded. Prescribe both of these drugs separately and check that the correct warning for each drug is issued.
 - ☐ c. Set up a patient record with no known allergies. Prescribe medication for allergies that are known to exist. Check that a warning message is not issued by the system.
 - ☒ d. Set up a patient record with a known allergy. Prescribe the medication to that the patient is allergic to, and check that the warning is issued by the system. ✗

Câu trả lời đúng là: All test-cases from the other answers are good.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

When would we stop the testing period?

Chọn một:

- ☒ a. All of the other answers are correct, depended on the testing strategy. ✓
- ☐ b. Reach the end of testing period.
- ☐ c. 100% of test-cases has been tested.
- ☐ d. Reach the stoping criteria, for example at 95% statement coverage or 99% defects have been discovered.

Câu trả lời đúng là: All of the other answers are correct, depended on the testing strategy.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

In which of the following case, the while-box testing approach cannot reach 100% decision coverage?

Chọn một:

- ☐ a. A piece of code that has many branches (if then else, for example).
- ☐ b. A piece of code that has many functions/methods.
- ☒ c. A piece of code that has a loop/recursion. ✓
- ☐ d. A piece of code that has only sequential statements.

Câu trả lời đúng là: A piece of code that has a loop/recursion.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

What do we do in re-engineering?

Chọn một:

- ☒ a. Re-structuring or re-writing part or all of a legacy system without changing its functionality. ✓
- ☐ b. All of that of the other answers.
- ☐ c. Adding effort to make system has more functionality.
- ☐ d. Reduce the size of the system.

Câu trả lời đúng là: Re-structuring or re-writing part or all of a legacy system without changing its functionality.

Câu hỏi 8

Không chính xác

Điểm 0,00 của 1,00

What do we do when refactoring for a piece of code that developers put in the software for future requirements?

Chọn một:

- ☐ a. Change the name of the method into futureRequirementMethod(). ✗
- ☐ b. Duplicate the code to make it stronger.
- ☐ c. Remove it for simplify the current code.
- ☐ d. All of that of the other answers.

Câu trả lời đúng là: Remove it for simplify the current code.

Câu hỏi 9

Chính xác

Điểm 1,00 của 1,00

Which of the following is correct in regression testing?

Chọn một:

- ☒ a. All of the other answers are correct. ✓
- ☐ b. All tests are re-run every time a change is made to the program.
- ☐ c. Test the system to check that changes have not 'broken' previously working code.
- ☐ d. Tests must run 'successfully before the change is committed.

Câu trả lời đúng là: All of the other answers are correct.

Câu hỏi 10

Chính xác

Điểm 1,00 của 1,00

What do we do in impact analysis?

Chọn một:

- ☐ a. Release a new version to convince the customer.
- ☒ b. Pointing out things that need to be changed/upgraded for a new requirement. ✓
- ☐ c. All of that of the other answers.
- ☐ d. Fault repair for fixing the fault.

Câu trả lời đúng là: Pointing out things that need to be changed/upgraded for a new requirement.

Đã bắt đầu vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:32 PM
Tình trạng	Đã hoàn thành
Hoàn thành vào lúc	Chủ nhật, 24 Tháng mười hai 2023, 11:35 PM
Thời gian thực hiện	2 phút 39 giây
Điểm	10,00 của 10,00 (100%)

Câu hỏi 1

Chính xác
Điểm 1,00 của 1,00

Agile method applicability?

Chọn một:

- ☐ a. Big-sized products for big companies.
- ☐ b. All of the other answers are correct.
- ☒ c. Small or medium-sized products for sale.✔
- ☐ d. Small or medium-sized products for big companies.

Câu trả lời đúng là: Small or medium-sized products for sale.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của 1,00

The principles of Agile methods?

Chọn một:

- ☐ a. Customer involvement - Customers should be closely involved throughout the development process.
- ☐ b. People, not process - Team members should be left to develop their own ways of working without prescriptive processes.
- ☒ c. All of the other answers are correct.✔
- ☐ d. Incremental delivery - The software is developed in increments with the customer specifying the requirements to be included in each increment.

Câu trả lời đúng là: All of the other answers are correct.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 3

Chính xác
Điểm 1,00 của 1,00

Extreme programming ____.

Chọn một:

- ☐ a. New versions may be built several times per day;
- ☒ b. All of the other answers are correct.✔
- ☐ c. Increments are delivered to customers every 2 weeks;
- ☐ d. All tests must be run for every build and the build is only accepted if tests run successfully.

Câu trả lời đúng là: All of the other answers are correct.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác
Điểm 1,00 của 1,00

A Scrum Sprint cycle ____.

Chọn một:

- ☐ a. Is fixed length, normally 2–4 weeks.
- ☐ b. Is started by select the features and functionality from the product backlog to be developed during the sprint.
- ☒ c. All of the other answers are correct.✔
- ☐ d. During "sprint" stage, the team is isolated from the customer and the organization all communications through the 'Scrum master'

Câu trả lời đúng là: All of the other answers are correct.

Chính xác
Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của 1,00

Which of the following is the best answer about Agile methods.

Chọn một:

- ☐ a. Focus on working code, minimal documentation.
- ☐ b. Specification, design and implementation are inter-leaved.
- ☐ c. Aim to reduce the delivery time for working software systems.
- ☒ d. All of the other answers are correct. ✓

Câu trả lời đúng là: All of the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của 1,00

Extreme programming practices ____.

Chọn một:

- ☐ a. (Simple design) Enough design is carried out to meet the current requirements and no more.
- ☒ b. All of the other answers are correct. ✓
- ☐ c. (Small release) Releases of the system are frequent and incrementally add functionality to the first release.
- ☐ d. (Refactoring) All developers are expected to refactor the code continuously as soon as possible code improvements are found.

Câu trả lời đúng là: All of the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 7

Chính xác

Điểm 1,00 của 1,00

Pair programming ____.

Chọn một:

- ☐ a. Sharing of knowledge during pair programming reduces the overall risks to a project when team members leave
- ☐ b. Serves as an informal review process as each line of code is looked at by more than 1 person.
- ☐ c. 02 developers on the same computer, one as the driver, and the other as the navigator.
- ☒ d. All of the other answers are correct. ✓

Câu trả lời đúng là: All of the other answers are correct.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của 1,00

In Scrum ____.

Chọn một:

- ☒ a. Initial phase establishes the general objectives for the project and design the software architecture. ✓
- ☐ b. All of the other answers are correct.
- ☐ c. Transition phase tests and transfers products.
- ☐ d. Construction phase focuses on software development.

Câu trả lời đúng là: Initial phase establishes the general objectives for the project and design the software architecture.

Chính xác

Điểm cho bài nộp này: 1,00/1,00.