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Advanced Test Manager

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QUESTION 1

You are the Test Manager for a project to develop a web customer portal of a Pay-TV company that allows customers (with a smartcard and a set-top box) to purchase digital contents.

In the "select" page the system displays a dialogue where the customer can select the items (digital contents) he/she is interested in. In this page he/she can add one or more items to a shopping cart. An item consists of a product and a duration.

There are three types of products: Movie, sport and premium (movie and sport).

There are four possible durations: 1 months, 2 months, winter (from the beginning of January to end of March) and summer (from the beginning of July to end of September).

All the combinations of products and durations are allowed to define an item. Thus there are twelve possible items. A maximum of six different items can be added to the shopping cart at a time.

When the customer decides to check out he/she goes to the "purchase" page where he/she can pay the total amount of the shopping cart in three different ways:

-

using a credit voucher

-

using a credit already charged on the smartcard

-

using a credit card (accepted credit cards are. Visa, MasterCard and Great Wall Card)

The customer can logout from both the "select" and "purchase" pages. In this case no purchase is made.

You decide to apply a blended risk-based and reactive testing strategy and the following is a subset of the

exit criteria for system testing: EXCR1- Each "critical" quality risk item must be covered by at least one test condition
EXCR2- Each "critical" requirement must be covered by at least one test condition You are following a risk-based testing strategy. The test execution time is very limited. Assume that all the

product risk items require more or less the same level of test effort.

Product Risk Item	Likelihood	Impact
The system does not accept transactions coming from the IVR channel	1	5
The system does not correctly charge a Smart Card with the required contents	2	5
The system does not activate a pre-activated Smart Card	3	5
The system does not pre-activate a Smart Card	5	3

Which of the following answers describes the best execution schedule in this scenario?



K3 3 credits

A. 1- Test the acceptance of transactions coming from the IVR channel2- Test the correct charge of the Smart Card with the required contents3- Test the correct pre-activation of the Smart Card4- Test the correct activation of the Smart Card

B. 1- Test the correct pre-activation of the Smart Card2- Test the correct charge of the Smart Card with the required contents3- Test the correct activation of the Smart Card4- Test the acceptance of transactions coming from the IVR channel

C. 1- Test the correct activation of the Smart Card2- Test the correct pre-activation of the Smart Card3Test the correct charge of the Smart Card with the required contents4- Test the acceptance of transactions coming from the IVR channel

D. 1- Test the correct pre-activation of the Smart Card 2- Test the correct activation of the Smart Card3Test the correct charge of the Smart Card with the required contents4- Test the acceptance of transactions coming from the IVR channel

Correct Answer: D

QUESTION 2

Which of the following statements describing how identified product quality risks should be mitigated and managed, is true?

K2 1 credit A. The extent of re-testing and regression testing activities should be based on the risk level

B. The identification of new risks, the re-assessment of the level of existing risks and the evaluation of the effectiveness of risk mitigation activities should only occur at the very beginning of a project

C. Risk mitigation of product quality risks can be effective only after starting test execution

D. The priority of the development and execution of tests should not be based on the risk level but only on the likelihood

Correct Answer: A

QUESTION 3

Assume you are the Test Manager for a new software release of an e-commerce application.

The server farm consists of six servers providing different capabilities. Each capability is provided through a set of web services.

The requirements specification document contains several SLAs (Service Level Agreements) like the following:

SLA-001: 99.5 percent of all transactions shall have a response time less than five seconds under a load of up-to 5000 concurrent users

The main objective is to assure that all the SLAs specified in the requirements specification document will be met before system release. You decide to apply a risk-based testing strategy and an early risk analysis confirms that performance is high risk. You can count on a well-written requirements specification and on a model of the system behavior under various load levels produced by the system architect.

Which of the following test activities would you expect to be the less important ones to achieve the test objectives in this



scenario?

K4 3 credits

- A. Perform unit performance testing for each single web service
- B. Monitor the SLAs after the system has been released into the production environment
- C. Perform system performance testing, consisting of several performance testing sessions, to verify if all the SLAs have been met
- D. Perform static performance testing by reviewing the architectural model of the system under various load levels

Correct Answer: B

QUESTION 4

You are the Test Manager for a project to develop a client-server application that allows wine vendors to order custom-assorted packages of wines of several winemakers to sell special packages in their wine shops.

You decide to apply a blended risk-based and reactive testing strategy. Below the exit criteria for the system testing. EXCR1- Each "critical" quality risk item must be covered by at least one test condition EXCR2- Each "critical" requirement must be covered by at least one test condition The following are the "critical" requirements of the application:

REQ-SEL-1. The application shall allow the user to order only one package at a time REQ-SEL-2. The application shall allow the user to select between four different packages (2-bottles, 6bottles, 12-bottles, 15-bottles)

REQ-SEL-3. The application shall allow the user to order a package containing at least 1 bottle and no more bottles than the package size. No error messages shall be displayed if the user selects a valid number of bottles (at least 1 bottle and no more than the package size)

REQ-SEL-4. The application shall display an error message "Invalid number of bottles" if an invalid number

of bottles is selected by the user (zero bottles or a number higher than the package size) REQ-PAY-1. The application shall allow the user to pay with the three accepted credit cards (Visa, MasterCard, American Express)

REQ-PAY-2. The application shall display an error message "Invalid credit card" if invalid credit card data are given by the user The following is the unique "critical" quality risk item that has been identified:

CR-RSK-1. The GUI of the application might accept non-integer values for the input field designed to get the number of bottles from the user Test analysis for system testing has just begun and the following test conditions have been identified. TC-SEL-2. Test the selection of the package sizes

TC-SEL-4. Test wrong numbers of bottles for an order TC-CR-RSK-1. Test the accepted values from the input field designed to get the number of bottles from the user

What is the MINIMUM number of test conditions that must be added to fulfill both the EXCR1 and EXCR2 exit criteria?

K3 2 credits

- A. 4
- B. 3
- C. 2



D. 1

Correct Answer: A

QUESTION 5

Assume you are managing the system testing phase of a project.

The system test execution period is scheduled to twenty weeks.

All tests are manual tests. You are following a risk-driven test approach.

During the last staff meeting the project manager tells you new deadlines that will not allow completion of all the system tests.

Which of the following would you expect to be the best way to respond to this situation?

K2 1 credit

- A. Prioritize executing the tests for the highest product risks and track these risks
- B. Remove testers from your test team, so that they can be assigned to other projects
- C. Automate all remaining tests
- D. No action is needed, test as much as possible in the remaining time period

Correct Answer: A

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