Question 11

Answer saved

Marked out of 2.00

⚑ Flag question

Suppose you are running a web application and you found that it is not compatible with a new version of the Microsoft web browser (powered Edge browser). To address this compatibility issue your web application is a part of _____.

Time left 0:19:54

- ⦿ Adaptive Maintenance
- ◯ Corrective Maintenance
- ◯ Preventive Maintenance
- ◯ Perfective Maintenance

Clear my choice

Question 12

Answer saved

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⚑ Flag question

"Create a specific timetable that shows tasks, task dependencies, and critical tasks that might delay the project."

The statement above is related to the following roles of Project Manager.

- ◯ Project Reporting
- ⦿ Project Scheduling
- ◯ Project Planning
- ◯ Project Monitoring

Clear my choice

○ Project Scheduling

○ Project Planning

○ Project Monitoring

Clear my choice

Question 13

Answer saved

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⚐ Flag question

"Company XYZ would like to propose a new system. They need a specific measurement that will help them to determine if the project is doable."

Which of the following method is suitable for above mention situation?

○ SWOT Analysis

● Preliminary Investigation

○ Brainstorming Session

○ User Acceptance

Clear my choice

Previous page

Finish attempt ...

Questions B1, B2, and B3 are based on the case study below:

Case Study

Time left 0:19:06

SpeedTravel Management System

SpeedTravel Sdn Bhd is an e-hailing service company that provides rides in motorbikes instead of cars, with branches in several towns in Malaysia. Each branch manages a fleet of bikes and they have a team of riders. Riders have to rent a bike from the company and a rental agreement with the start and end dates will be drawn up.

There have been many complaints about the state of this services in Malaysia, such as difficulty getting a bike and overcharging. SpeedTravel would like to improve its image by providing better customer service by enabling customers to request bike services immediately from their current location using a mobile application (app).

The mobile app should allow customers to request a bike from their current location and provide an estimate of the fare to the destination. The app will send the request to the bike despatch system at the SpeedTravel Headquarters. Upon receiving a bike request, the bike despatch system should identify and despatch any available bike to the request and return the bikes' vehicle registration number and estimated fare and time of arrival to the customer's mobile app as a confirmation.

When the bike picks the customer up, the trip will be recorded. The actual fare should be calculated based on the distance from the time the customer gets on the bike until the destination is reached. The payment is recorded by the rider and then the bike will be marked as available until it is despatched to the next customer. The manager must be able to generate exclusive reports about the profits and expenses statuses at any time.

Note: State any assumptions made to support your answer.

QUESTION B1

Planning and Analysis make up the first two phases of the SDLC model. Assume that you are a System Analyst and that your team is to be comprehensively involved in all phases of the project.

a)   If you were asked to develop a Context Diagram for the case above, describe in full the considerations involved in the creation.

(15 Marks)

b)   Construct a data dictionary for one external entity and one data flow

(15 Marks)

| ⭧ | A ▾ | ⬥ ▾ | **B** | *I* | ✏ ▾ | ☰ | ☷ | ⚭ | ✂ | 👥 |

Define the scope of the system and identify its boundary, distaunghush between the systemm and its extenal system
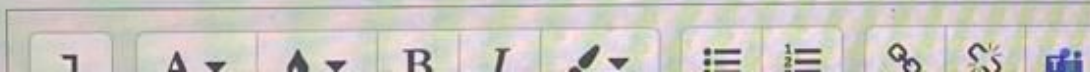
QUESTION B2

Assume that your team has completed the programming tasks for the *SpeedTravel* mobile application, and you are now ready to test the completed software as part of your quality control procedure. The manager wants to know if the bike request, fare calculation and bike availability functions are working properly and in union with each other.

a)   Describe the **three (3)** main types of software testing you would conduct to satisfy the manager's requirement. Include relevant examples for each function.

b)   Design a sample test plan (Prepare a TABLE) that shows "Bike Availability" case

    i.   When a bike is on travel and availability status is 'Available'

    ii.   When a bike is free and availability status is 'Available'

(30 Marks)

3

QUESTION B3

out of

Software maintenance is the process of modifying a system or a particular component after delivery to correct possible errors, enhance performance or adapt to environment changes.

question

Discuss **two (2)** types of system maintenance that you can conduct for *SpeedTravel*.

Now that your system is ready for deployment, suggest the best system changeover strategy that you think is best to deploy your new system.

(20 marks)

A ▾   ▸   B   I   ▸   ☰   ☰   ⸖   ⸙   ⫿

QUESTION B1

Planning and Analysis make up the first two phases of the SDLC model. Assume that you are a System Analyst and that your team is to be comprehensively involved in all phases of the project.

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(15 Marks)

b)   Construct a data dictionary for one external entity and one data flow

(15 Marks)

Question 2

Not yet answered

Marked out of 30.00

Flag question

Time left 0:24:00

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(30 Marks)

QUESTION B3

Software maintenance is the process of modifying a system or a particular component after delivery to correct possible errors, enhance performance or adapt to environment changes.

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Now that your system is ready for deployment, suggest the best system changeover strategy that you think is best to deploy your new system.

(20 marks)

↴ A ▾ ◔ ▾ B I ✎ ▾ ≡ ≣ ⸜ ⟲ ◈

Time left 0:20:30

uestion **4**

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.00

Flag question

'Maintenance and training fees' would be classified as _____ .

i.   Developmental cost

ii.   Operational cost

iii.   Direct cost

iv.   Indirect cost

○ i, iii

○ ii, iii

◉ ii, iv

○ i, iv

Clear my choice

Question **5**

Answer saved

What does the 'source' means in a data flow diagram (DFD)?

Time left 0:20:30

uestion 4

nswer saved

larked out of
.00

Flag question

'Maintenance and training fees' would be classified as _____.

i.   Developmental cost

ii.   Operational cost

iii.   Direct cost

iv.   Indirect cost

○ i, iii

○ ii, iii

◉ ii, iv

○ i, iv

Clear my choice

Question 5

Answer saved

What does the *source* means in a data flow diagram (DFD)?

Question 5

Answer saved

Marked out of 2.00

⚑ Flag question

What does the *'source'* means in a data flow diagram (DFD)?

Time left 0:20:23

○ An external entity that supplies data

○ An external entity that receives data.

○ An external entity that modifies data.

◉ An external entity that supplies and receives data.

Clear my choice

Question 6

Answer saved

Marked out of 2.00

⚑ Flag question

Which of the following is **TRUE** about Physical Design?

○ Concerned with what is required and how the data is input

◉ Concerned with how the requirements are satisfied and what information will be output

○ Concerned with how the requirements are satisfied and how the data is input

○ Concerned with what is required and what processes must be performed

Clear my choice

Question 7

displays only records that meet a specific condition or conditions and

ear my choice

Question 7

Answer saved

Marked out of
2.00

P Flag question

_____ displays only records that meet a specific condition or conditions and
useful when the user wants information that might require action but does not need to know the
details.

O Technical report

O Exception report

● Summary report

O Detail report

Clear my choice

Question 8

Answer saved

Marked out of
2.00

P Flag question

'Maximize Cohesion' is one of the good programming principles to ensure _____.

O A code that has similar functionality should be found within the same component.

● Any section of code should diminish the dependencies on other areas of code.

O A component of code should perform a single well-defined task.

O Each significant piece of functionality in a program should be implemented in just one place
in the source code.

_____ of an individual program or module to identify errors that could cause the program to terminate abnormally, and logic errors that could have been missed during desk checking.

O Unit Testing

O Integration Testing

⦿ System Testing

O User Acceptance Testing

Clear my choice

Software entities (classes, modules, functions, etc.) should be open for extension but closed for modification is referring to _____ principal.

O Don't Repeat Yourself (DRY)

O Loose coupling

⦿ Open/ Close

O Keep It Short and Simple (KISS)