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Surname: Mashaba

Student number: ST10055395

Module name: Business Information System

Module code:BUIS5111

Assessment Type: Assignment 1

Group: 8

Question 1

Q.1.1 1. Better Communication

Team members will be able to communication better through having exactly the same information available to them at each time

2. Reduce Risk of Error

Due to the fact that data will not have to be replicated, there is less chance of human errors being made which leads to more accurate information available

3. Greater Productivity

Employees can spend more time on tasks that will help the business to grow

4. Real Time and Data

Through have integrated in one system, all of the data is up to data. This is essential for all element of the organization ranging from marketing communication through to finance

5. One secure Location

Through having all of the necessary data stored in one information system, relevant data is easier for employees to access. Many leading business system allow restriction on what individual employees are allowed to access so sensitive information can be seen only by those who need it

Adopted from: Business Information System Eventure.16 October 2017. [Online]

Available at: <https://www.eventure.com> [Accessed 6 April 2022]

Q.1.2 1. Computer hardware

This is the physical technology that works with information. Hardware can be as small as a smartphone that fits in a pocket or large as a supercomputer that fills a building. Hardware also include the peripheral devices that work with computers, example Keyboards, external disk drives, and routers

2. Computer software

The hardware need to know what to do, and that is the role of software. Software can be divided into two types. Primary piece of system software is the operating system, example windows or IOS, which manage the hardware operation application software is designed for specific tasks, example creating a document, or designing a web page

3. Telecommunication

This component connect the hardware together to form a network. Connections can be through wires, example Ethernet cable or wireless, such as through Wi-Fi. A network can be designed to tie together computer in a specific area, such as an office or a school, through a local area network (LAN). If computer are more dispersed the network is called a wide area network (WAN)

4. Databases and Data warehouses

A database is a place where data is collected and from which it can be retrieved by quering it using one or more specific criteria. A data warehouse contains all of the data in whatever form that an organization needs. Databases and data warehouse have assumed even greater importance in information system with the emergence of “big data’’ a term for the truly massive amount of data that can be collected and analyzed

5. Human resources and procedures

The final, and possibly most important, component of information system is the human element: the people that are needed to run the system and the procedures they follow so that the knowledge in the huge databases and data warehouses can be turned into learning that can interpret what has happened in the past and guide future action.

Adopted from: Computer and Databases, 28 February 2016. [Online]

Available at <https://www.britannica.com>

[Accessed] 6 April 2022

Question 2

2.1 The main reason Thabo chose to select a Tablet is because it can be so easy to carry around and to utilize.

-The computer system can be used when he wants to store stuff consisting of a larger space.

Make

- The tablet he is using a Huawei,

Model

- Media Pad T5 10

Memory capacity

-The memory capacity can be around 256GB

Processor

-Its processor is Octa-core Kirin 659

Hard drive capacity

-The T5 runs Huawei’s latest EMUI 8.0 OS, which is developed based on Google Android (Oreo) and is equipped with Huawei cloud services

Screen size

- The Huawei Media pad has a height of 9.57’’(243mm), width of 6.46’’(164mm), depth of .31’’(7.8mm) , The screen size is 10.1’’ (256.5mm) diagonal with a resolution of 1920\*1200 PX at PPI

Cost

-The cost of this table roughly R4 500.00

Operating system

-EMUI 8.0 (Based on Android 8.0)

Adopted from: Connected devices, 4 October 2015. [Online]

Available at: [www.connecteddevices.co.za](http://www.connecteddevices.co.za) [accessed 6 April 2022]

Q.2.2 Office 365

Advantages

- Access Files Anywhere. Office 365 allows your organization to store all the files in the cloud

-Improved communication

Disadvantages

-compatibility issue with bespoke system

-most people only use 20% of the functionality

The barbershop owner should use the office 365 because it has improved communication and you can be able to access files anywhere and it also stores all the files in the cloud. This will really work effectively for Thabo’s business.

Adopted from: connected device, 4 October 2015. [Online]

Available at: [www.connecteddevice.co.za](http://www.connecteddevice.co.za) [accessed 6 April 2022]

Q.2.3 Microsoft 365 personal R999, 00/year 1 person

Adopted from: Explore more benefits of Microsoft, 5 March 2017. [Online]

Available at: [www.microsoft.com](http://www.microsoft.com) [Accessed 2022]

Question 3

Q.3.1 Databases

-A database is an arranged collection of structured figures, or data, typically stored electronically in a computer system.

Benefits of a database

-Reduce the amount of time you spend managing information

-Improve the quality and consistency of data

Adopted from: benefits of database development, 9 May 2013 [Online]

Available at: <https://www.ringlead.com> [Accessed 6 April 2022]

Q 3.2 Infographic

1 Schemes

-They are diagrammatic portrayal that illustrates data

2 Queries

-It can be referred as an appeal for data

3 Report

-It is the process of collecting and submitting data which gives rise to correct analysis of the of the facts on the ground

4 Table

-They are a set of data element employ a model of vertical columns (identified by name) and horizontal rows

Hierarchy of Data

Adopted from: Infographic examples, templates, design tips, 10 June 2017 [Online]

Available at: <https://venngage.com> [Accessed 6 April 2022]

Q3.3 customers

|  |  |  |  |
| --- | --- | --- | --- |
| Customer number (PK) | Customer name(PK) | Time in (PK) | Time out(PK) |
| Cust07 | Busani | 11:00 | 12:10 |
| Cust09 | Noxolo | 12:20 | 13:57 |

Staff

|  |  |  |  |
| --- | --- | --- | --- |
| Staff No | Staff name | Staff email | Staff surname |
| Sta04 | Brian | m04@gmail.com | Mokoena |
| Sta05 | Sphiwe | M05@gmail.com | Nkuna |

Employer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Employer No | Employer name |  | Employer surname | Employer email |
| Employer01 | Celebrate |  | Mashaba | Celebrate67@gmali.com |
| Employer02 | Lungi |  | Khoza | Lungi87@gmali.com |

Adopted from: Sample Databases, 14 Jan 2022. [Online]

Available at: <https://www.microsoft.com>.

[Accessed 6 April 2022]

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Question 2: Adopted from: Connected Devices, 4 October 2015. [Online

: Available at: [www.connectdevices.com](http://www.connectdevices.com)

[Accessed 6 April 2022]

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Question 3: Adopted from: Benefits of Database Development, 9 May 2013. [Online]

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