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Csc 408

1a. The design and implementation of the Yaba LCDA swim team website.

a. The stake holders involved in the project are:

i. The swim teams

ii. The head coach

iii. The parent's association

b. This project involves the design and implementation of a local swim team website which will include information about the swim team such as pictures and names, information about the swim meets the team is involved in such as the locations and times and also the results. The website will also hold information about the coaching staff including the head coach and assistant coaches and information about the parent's association which are one of the sponsors and volunteers for the swim team and details about their volunteer

schedules. This website will be implemented using HTML, Java, ASP

c. My preferred choice of methodology will be Agile because: Agile is best suited for projects that are iterative and incremental. It's a type of process where demands and solutions evolve through the collaborative effort of self-organizing and cross-functional teams and their customers. Originally created for software development, it was established as a response to the inadequacies of the Waterfall method (info on it later below), the processes of which did not meet the demands of the highly competitive and constant movement of the software industry.

d. The scope of the project:

i. The design, development and implementation of an interactive website using java, html and asp, which enables users to get information, add comments, and

share with other members of the swim team and community.

ii. To develop a website that is accessible to the public and enables new users to sign up and request for more information on the swim team.

iii. To develop a database of users to store profile information and login credentials for privileged site users

iiii. To develop a database to store, retrieve and display scheduling information for swim meets, practices and swim meet results

v. To develop a content file management system to effectively store, retrieve and display pictures.

vi. To provide administrative capabilities to update the website with up to date information, relevant content and manage users

vii. To develop a website that is search engine optimized to drive traffic to the website.

e. Key requirements of the website:

- i. Homepage
- ii. Swim practice page
- iii. Swim meet page
- iiii. Photo gallery
- v. Coaching staff page
- vi. User administration
- vii. Content administration

System requirements:

Accessible over http using modern web browsers

Should be compatible with PC or phone browsers

Should be hosted on a secure web server platform

To provide sufficient security control protocols to ensure any private information is stored securely on the hosted database servers

To provide the capabilities to view and analyze website traffic and hits report metrics

f. The risks associated with the project:

- i. The parent's association may

use influence to expand the scope of the project and add their requirements

ii. The out-sourcing of portions of the project due to requirements being out of range of the skill sets of the project team

iii. The graphic design must be approved by all stake holders before the development can begin

iiii. The Yaba LCDA swim team must keep information current and relevant else site usage may not meet expectations

v. The swim team will be modifying the website when posting meet results, this could compromise the integrity of the system if users are not properly trained

2a. net beans for java

b. everyday

c. `System.out.println();`

`Public static void main`

`string(args)`

d. four

e. I gave it this score

because it is an open source software which compiles and runs programs very fast and is very efficient in debugging capabilities it also helps to identify errors in their specific location and give hints on how to handle these errors it also makes it easy to import other open source codes into the IDE and help to combine them with my own codes.

f. important attributes:

- Ease of use
- Efficiency
- Integrity

3. (a) Describe FIVE factors that you would consider when allocating staff to a task.

1. Priority

Consider the work's priority.

Priority needs to drive everything.

If you've been rigorous in your prioritization process, start at the top of the list and begin allocating work from there. That list should be based on the team's and the

organization's goals. This has to be the first consideration in terms of how you distribute work. If a project is a top priority and somebody is available to do that work, they should be tasked with that work.

2. Skill Sets

Evaluate the skill set of the people who you're thinking about distributing the work to. If they have the right skill set, you're going to get a high-quality result. The end product will be something that meets your customer's needs. This also reduces the likelihood of people failing because you're not giving them work that they don't have the skill set to perform. You're giving them something they can be successful with.

3. Availability

The next consideration for allocating work is a person's availability. All things being equal

in terms of priority and skill set, who is free to do the work? Who has the bandwidth? You should not be shifting resources from one project to another when you have available resources to pick up that new project.

If you start shifting resources around between projects when you have available resources elsewhere, you're going to lose momentum on that first project and that project might fail.

Additionally, the people who are on the project are going to be very frustrated. They had the resources they needed and all of a sudden, they don't. It's going to seem like it was at a whim to just move somebody around. The person who will be most frustrated is the person who has the resource taken off the project they're succeeding on and put onto something new.

4. Development

Next, you have to think about the

development opportunity this project might present for that person. You should be constantly upgrading your team's skill set. A way to do that is to give them new work where they're going to learn new skills. Put them in situations where they're going to be a little bit uncomfortable. Give them projects where they're going to have to step up and learn, be taught, and be open to feedback and coaching. That's how you're going to take your team to the next level of performance.

5. Interest

The last consideration in terms of which person gets the work when it needs to be allocated is does somebody have an interest in performing that particular task? If someone is really interested and passionate about a project, you should let them take it on. They're going to be motivated, excited to do it, and hopefully their performance will follow. One

caveat here – make sure people don't only gravitate to the work they enjoy doing and they stay away from things that they're not comfortable with. If you let that happen, they're going to end up getting pigeonholed and they'll be very narrow in their focus.

(b) You know that you have all the required skills in the project team but not enough people with these skills to meet the project deadline. What are some of the possible actions you would take?

- Evaluate what is required
- Prioritize
- Get the right resources
- Create allowance for problems
- Plan in detail
- Limit damage of missed deadline

(c) It has been decided that you need to hire a new member of staff for the project. List the steps that you need to go through from identifying the need for a new resource right through to the end of the recruitment process.

1. Identifying the Hiring Needs
2. Preparing the Job Description
3. Talent Search
4. Screening and Shortlisting
5. Interviewing
6. Evaluation and Offer of Employment
7. Introduction and Induction of the New Employee

4. "The increased popularity of 'lightweight' project methods, for example AGILE, has led to some people questioning the need for well-established structured methods. There is no method that is always best, each is more appropriate in certain circumstances"

Do you agree with the above statement? Give reasons to support your answer.

- Yes
- Software development projects use different types of software development life cycle (SDLC) methodologies, depending on their nature and

requirements, which basically define the way that the software development work is organized. The two main approaches are the traditional, waterfall method and the agile software development method. When choosing the methodology most suitable for your software development project, some of the things you should consider are:

The speed of completion,

The size of the system,

The level of collaboration and interaction that is possible among the software development team members.

5. (a) Define the term "stakeholder" in relation to an IT development project.

- According to the Project Management Institute (PMI), the term project stakeholder refers to, "an individual, group, or organization, who may affect, be affected by, or perceive itself to be affected by a decision, activity,

or outcome of a project.

(b) You work for a large research organization with a number of branches throughout the country. At the moment, each of these branches uses a different main database system. It has been decided by Head office that the database system used by your branch should be expanded and then used by all the other branches to replace their existing database systems. They would need to transfer all their data to this expanded database on a main server, which would be located in your organization's head office. A network would be set up linking all the branches to this main server.

(i) Briefly explain at least FOUR different types of stakeholders in this new project.

- Project leader
- Resource Managers
- Senior management
- Project team members

(ii) Identify their main concerns and their stake in the project.

- Project leader:

- i. Concerns:

- ii. Stakes:

- Resource Managers:

- i. Concerns :

- ii. Stakes:

- Senior management:

- i. Concerns:

- ii. Stakes:

- Project team members

- i. Concerns:

- ii. Stakes:

(c) A project sponsor has also been appointed. Name at least THREE people, or groups of people, who would then be directly responsible to the sponsor.

- i. A customer

- ii. The Government

- iii. Project manager

6a. IT

Infrastructure encompasses the hardware (networks, servers, computers, telecommunication, security systems, backup devices and other supporting hardware) and software used to support and manage an organization's core information technology services. These also include cloud servers, content and application platforms such as web servers.

Technology infrastructure consists of hardware systems, software, network connections, and servers. These are some examples of technology infrastructure projects: Installing a new backup server. Replacing all the computer hardware. Upgrading the payroll system software.

6b). The concept of learning cycle includes exploration, concept application and concept development. Exploration is

simply done by given brief introduction about the project and allowing the project team members research on the project. Here, both the project manager and project team members are expected to have an idea about the project and focus on the next step

Concept Application is the ability to apply the research knowledge in real-life situations and it's strongly influenced by abilities in attention, memory and higher order thinking.

Concept Development Initiation includes all the necessary tasks to develop and execute a task order. These tasks included data collection, data analysis, alternative analysis, preliminary preferred alternative, concept development report and concept development approval.

Data Collection efforts include gathering

6c). The project life cycle (PLC) focuses on the phases,

processes, tools, knowledge and skills of managing a project, while the system development life cycle (SDLC) focuses on creating and implementing the project's product (the information system). The SDLC is really part of the PLC because many of the activities for developing the information system occur during the execution phase. The last two stages of the PLC, closing and evaluating the project, occur after the implementation of the information system. The integration of project management and system development activities is one important component that distinguishes IT projects from other types of projects.

