**Author:** *Alessandro Ferro*

**ICTICT509**

**Task 1**

**Student ID:** 83126277

Question 1: In order to define the client business domain, the following data will be sourced. Compare the different categories of data.

|  |  |  |
| --- | --- | --- |
|  | Quantitative Data | Qualitative Data |
| What forms of data are? | Data that can be measured | Data that express concepts (thoughts, observations, opinions, words) |
| How to retrieve them? | Technical and performance reports, forms, surveys, statistics. | Open ended questions, memos, procedure manuals, surveys, workshop results, policy guidelines. |
| How to analyse them? | Mathematical equations and computation. The method of data capture and processing must be current and reliable. | The information must be unbiased and shouldn’t be provided on the basis of political motivation. |
|  | Internal Data | External Data |
| Where can you find them? | Are provided by reports, results and resources within the organisation itself. | Are provided by statistics, standards or research that are relevant for the organisation, but that are not produced within the organisation. |
|  | Data from Documents | Data from People |
| Advantages | Represent a good starting point to provide a solid background to understand an organsation and its mechanisms. | Offer dynamic response to questions and allow to use vary methods of communication. |
| Disadvantages | Large amount of documentation could provide just limited information. | Information that comes from people also comes with the burden of that person opinion and a measure of sceptisism is always required. It can also be costly. |

Question 2: Describe **ONE** current industry accepted hardware and software products, general features and capabilities suited to the website project.

**Answer**

For the Bazaar Ceramics Project it is advised to take in consideration the following hardware and software solutions.

Hardware**:**

Any computer with the below mentioned minimum requirements.

Processor 🡪 i5 or higher

CPU speed for web and database 🡪 4 x 1,6 Ghz

RAM 🡪 8GB

Minimum database space: 40GB

Software**:**

Apache HTTP server

Open source with active commmunity

OS independent

No licensing fees

Enhanced security

Customizable

Question 3: Outline the role of the following stakeholders and the degree of involvement in the information gathering process.

* Project Manager

The project manager leads the team through the process of gathering the requirements. The role requires an high level understanding of the business requirements to allow the project manager to supervise the processes and validate the outcome of the requirement analysis.

The project manager works closely related to the key stakeholders and produces a plan for the gathering of the requirements.

Once the requirements have been identified and the necessary documentation has been reviewed, the project manager analyses the outcomes and evaluate if the requirements are coherent and feasable (customer expectations, technical feasibility, budget, timeframe and resources). Negotiation with the client may be necessary to refine the requirements.

When the requirements have been refined, the project manager needs to ensure that all the stakeholders and the development team have a common understanding of what these requirements are and what are the priorities.

Because requirements are very often not static, a project manager should also monitor the progress during deveopment and be ready to implement “last minute” changes when necessary.

Lastly is for the project manager to document the approval and client’s sign-off.

* Software Developer

The developers work closely with the client and the business analyst to identify and understand the business requirements. Following the guidelines and the processes defined by the project manager, the development team needs to imlplement a software solution that meets the expectations of the client and satisfy the agreed upon requirements.

Understanding the business process and identifying the requirements is moslty responsibility of the business analyst. Nonetheless the developers are the ones that are going to produce the software to meet those requirmeents and therefore they need to have a clear and thorough understandig of what they are epected to produce.

With their technical expertise they contribute in the gathering and refining of the requirements, in the negotiation and discussion with the client and in the production of the requirement specification.

* Client customer

The business owner has the better insight of the business and its processes and is the main source for the identification, definition and refinement of the business requirements. It is the client’s responsibility to be available for the development team for interviews, to answer questions and to provide them with the documentation they may require.

The client is the one with a vision. For that vision to come alive, the client needs to cooperate with the development team to define it and refine it.

The client role doesn’t end once the requirements have been gathered and agreed upon. Collaboration and communication between the client and the software developers is mandatory throughout all the development process, to ensure that the direction taken is consistent with the client expectations and any change that may be needed is implemented.

Question 4: Specify **FIVE** quality assurance practices required when determining the requirements.

Starting QA during requirements gathering is important to ensure that any defect is not going to be incorporated in the design and then dragged into development. Identifying the issues as sson as possible is the most cost effective approach.

The following are some of the practices to follow for QA during the requirements gathering phase:

* Analyse the requirements from specification and use cases to ensure they represent the users need.
* Identify issues or areas that may need disambiguation in the specification document
* Document the issues found
* Create high level test scenarios
* Create traceability matrix

Question 5: List the documents which you can examine the system's current hardware, software and communication functionality

* SRS (Software Requirements Specification)
* SDD (System Design Document)
* SAD (Software Architecture Document)
* Hardware and software specification
* User manuals
* Internal memos
* Communication technologies in use in the organization
* Organizational procedures

# **Unit Assessment Result Sheet (UARS)**

## **Assessment Task 1 – Unit Knowledge Test (UKT)**

## **Student and Trainer/Assessor Details**

|  |  |
| --- | --- |
| **Unit code** | ICTICT509 |
| **Unit name** | Gather data to identify business requirements |
| **Outcome of Unit Assessment Task (UAT)** | |  | | --- | | **First attempt:** |   Outcome (please make sure to tick the correct checkbox):  Satisfactory (S)  or Not Satisfactory (NS)  Date: \_\_\_\_\_\_\_(day)/ \_\_\_\_\_\_\_(month)/ \_\_\_\_\_\_\_\_\_\_\_\_(year)   |  | | --- | | **Second attempt:** |   Outcome (please make sure to tick the correct checkbox):  Satisfactory (S)  or Not Satisfactory (NS)  Date: \_\_\_\_\_\_\_(day)/ \_\_\_\_\_\_\_(month)/ \_\_\_\_\_\_\_\_\_\_\_\_(year) |
| **Feedback to Student** | |  | | --- | | * **First attempt:** |  |  | | --- | | * **Second attempt:** | |
| **Student Declaration** | * I declare that the answers I have provided are my own work. Where I have accessed information from other sources, I have provided references and or links to my sources. * I have kept a copy of all relevant notes and reference material that I used as part of my submission. * I have provided references for all sources where the information is not my own. I understand the consequences of falsifying documentation and plagiarism. I understand how the assessment is structured. I accept that all work I submit must be verifiable as my own. * I understand that if I disagree with the assessment outcome, I can appeal the assessment process, and either re-submit additional evidence undertake gap training and or have my submission re-assessed. * All appeal options have been explained to me. |
| **Student Signature** |  |
| **Date** |  |
| **Trainer/Assessor Name** |  |
| **Trainer/Assessor Declaration** | I hold:  🗹 Vocational competencies at least to the level being delivered  🗹 Current relevant industry skills  🗹 Current knowledge and skills in VET, *and undertake*  🗹 Ongoing professional development in VET  *I declare that I have conducted an assessment of this candidate’s submission. The assessment tasks were deemed current, sufficient, valid and reliable. I declare that I have conducted a fair, valid, reliable, and flexible assessment. I have provided feedback to the above-named candidate.* |
| **Trainer/Assessor Signature** |  |
| **Date** |  |
| **Office Use Only** | Outcome of Assessment has been entered onto the Student Management System on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (insert date)  by (insert Name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |