Business Requirements Document

of the Website

For

Bazaar Ceramics

Addendum



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# A site where industry specific technologies may be used

The website for the Bazaar Cermaics Project will be developed using technologies considered the modern standard for web development.

Server Side language: PHP 7.4

Database connection and mapping: PHP Data Object (PDO)

Database engine: MySQL 8.0

Database language: SQL

Templating: HTML 5

Styling: CSS 3

Client Side language: Javascript

Framework: JQuery

# Industry specific technologies currently used in industry

The stack chosen for the Bazaar Ceramic Project includes some of the most popular in the industry, but alternative are also available. Following is a list of the viable technologies that have been taken in consideration for the backend of the project.

Server Side

* Java
* C#
* Python
* Javascript (Node JS)

Database

* MariaDB
* MongoDB
* PostgreSQL

# Client functional requirements

The system consists of a web platform to sell products online. As such the system must be capable of handling online puschase of the company’s items, safe handling and storage of sensitive data, showcasing of products and products details, direct messaging to the company and administrative functions.

# Business specifications

* Gateway to sell products online
* Shopping cart module
* Data validation on the client side
* Data validation on the server side
* Data storage
* Browsing and searching
* Account management for the customers
* Add, update and delete functions for admin
* Session management

# database software

The system will rely on MySQL as a relational database engine and will use a PDO as ORM to handle connection and data mapping.

# Simulation software

Bizagi will be used to simulate the behaviour of the system in a production environment.

# Organisational guidelines

* Streamline order processing
* Showcase company’s products sorted by category
* Implement administrative functionalities
* Automate sales figures reporting

# Network and computer layouts

An ecommerce solution must be supported by an internal network and a specific computer layout to fulfill tasks related to

* Picking
* Sales
* Warehouse
* Delivery

# Site design software and hardware

Design

* Lucidchart.com
* VisualParadigm
* StarUML

Coding

* Visual Studio Code

Hardware

* Client’s Server
* Developer Laptop

# Information on a range of ICT business solutions.

Following is a list of ICT business solutions viable for the creation of ecomerce websites

* Prestashop
* Woocommerce
* Magento
* WIX
* Wordpress
* Shopify

The solutions listed above are just some examples of website builders capable of creating a fully finctional ecommerce website. Their perks and the level of expertise required to use them varies greatly from one another. For example, Wix targets people with no technical background and offers a drag and frop model that at a very basic level can be learned quickly by most people. On the other hand Wordpress requires technical knowldege to be used even at a basic level.

They usually offer a “drag and drop” approach to the positioning of elements on screen, with a limited choice of options for what concerns the styling. Pre-made templates and themes are available for a variety of commercial categories, in some cases even for free.

Fucntionalities are usually implemented ny integrating pre-developed modules or plug-ins.