**Waterfall Project – Part 2nd**

**Document 1st**

**Business Case Document Template**

**1. Why is this project initiated?**
This project is initiated to develop web pages for a US-based pharmaceutical company using Drupal Modules and Themes. The primary objective is to enable the company to sell Vets & Pets products through an online platform while ensuring post-development support for change requests.

**2. What are the current problems?**

* The client does not have an online presence for selling Vets & Pets products.
* Frequent requirement changes from the client.
* Need for a secure and scalable platform to handle transactions and customer data.
* SLA compliance issues in handling change requests.

**3. With this project, how many problems could be solved?**

* Establishing an online platform for selling Vets & Pets products.
* Streamlined handling of change requests through a structured process.
* Secure integration of a payment gateway.
* Efficient project delivery using the Waterfall methodology.

**4. What are the resources required?**

* **People**: Skilled developers experienced in Drupal Modules & Themes.
* **Technology**: Drupal, MySQL, and Payment Gateway.
* **Time**: 8 weeks for project completion.
* **Budget**: ₹50,00,000 (₹30,00,000 for training, ₹10,00,000 for software, ₹10,00,000 for hardware).

**5. How much organizational change is required to adopt this technology?**

* Minimal changes as Drupal is a low-code/no-code platform, reducing the technical learning curve.
* Some training for internal teams on managing content and handling change requests.

**6. Time frame to recover ROI?**

* Expected ROI recovery within 12-18 months through increased sales and customer engagement.

**7. How to identify stakeholders?**

* **Primary Stakeholders**: Client’s management, project sponsor, and end-users.
* **Internal Stakeholders**: Project manager, developers, designers, and testers.
* **External Stakeholders**: Customers purchasing products through the platform.

**Document 2nd**

**Business Analyst (BA) Strategy for Drupal Project**

**1. Introduction**

The BA strategy defines the approach to be followed in eliciting, analysing

, documenting, and managing requirements for the **Drupal-based web development project**. The strategy ensures alignment with business objectives, smooth stakeholder communication, and adherence to the **Waterfall model**.

**2. Business Analysis Approach**

* **Methodology Used:** Waterfall Model (Sequential Approach)
* **Requirement Gathering Techniques:**
	+ **Workshops & JAD (Joint Application Development)** – For stakeholder collaboration
	+ **MoSCoW & MVP Prioritization** – To determine high-priority features
	+ **Stakeholder Interviews** – For in-depth requirement insights

**3. Stakeholder Engagement Strategy**

* **Internal Stakeholders:**
	+ Project Sponsor
	+ Business Owners
	+ Project Manager
	+ Development Team
	+ Testing Team
* **External Stakeholders:**
	+ Customer (US-based Pharmaceutical Company)
	+ End-users (Customers purchasing Vets & Pets products online)

**Engagement Methods:**

* Regular **status meetings**
* **Requirement validation sessions**
* Feedback collection through **prototypes & wireframes**

**4. Requirements Management**

* **Requirement Documentation:**
	+ **Business Requirements Document (BRD)** – High-level business needs
	+ **Functional Specification Document (FSD)** – Detailed feature descriptions
	+ **Requirement Traceability Matrix (RTM)** – To ensure no requirement is missed
* **Requirement Changes:**
	+ All **Change Requests (CRs)** are evaluated for feasibility, cost, and impact
	+ Prioritization based on **business value & urgency**

**5. Risk Management Approach**

* **Technical Risks:** Developers need expertise in **Drupal Modules & Themes**
* **Business Risks:** Frequent changes in customer requirements
* **Security Risks:** Payment gateway handling sensitive user data
* **Mitigation Strategy:**
	+ **Regular training** on Drupal
	+ **Early risk identification** in feasibility analysis
	+ **Strict compliance** with security standards

**6. Deliverables & Success Metrics**

* **Deliverables:**
	+ Fully functional **Drupal-based e-commerce web pages**
	+ SLA-compliant **post-development support**
	+ Seamless **payment gateway integration**
* **Success Criteria:**
	+ Meeting **customer specifications** with minimal revisions
	+ Delivering within **8-week project timeline**
	+ Ensuring **zero SLA breaches** for Change Requests

This BA Strategy ensures structured requirement gathering, clear stakeholder communication, and risk mitigation, leading to the project's successful completion.

**Document 3rd**

**Functional Requirement Specifications**

|  |  |  |  |
| --- | --- | --- | --- |
| Req ID | Req Name | Req Description | Priority |
| FR0001 | User Login | Users should be able to log in to access features | High |
| FR0002 | Product Listing | Display products with images and descriptions | High |
| FR0003 | Shopping Cart | Users should be able to add/remove products | High |
| FR0004 | Payment Gateway | Secure payment processing integration | High |
| FR0005 | Order Tracking | Users should be able to track their orders | Medium |
| FR0006 | Admin Panel | Admin should manage products, orders, and users | High |

**Document 4th**

**Requirement Traceability Matrix**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Req ID | Req Name | Req Description | Design | Dev | Test | UAT |
| FR0001 | User Login | Users should be able to log in | Yes | Yes | Yes | Yes |
| FR0002 | Product Listing | Display product details | Yes | Yes | Pending | Yes |
| FR0003 | Shopping Cart | Manage cart operations | Yes | Yes | Yes | Yes |
| FR0004 | Payment Gateway | Secure payments processing | Yes | Pending | No | Yes |
| FR0005 | Order Tracking | Users track their orders | Yes | Yes | Yes | Yes |

 |

**Document 5th**

**Business Requirements Document (BRD)**

**Project Name: Drupal-based E-commerce Website for Vets & Pets Products**

**Project ID: DRUPAL-PHARMA-001**

**Version: 1.0**

**Author: Manish Talreja**

**1. Document Revisions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Changes** | **Author** |
| **03-Mar-2025** | **1.0** | **Initial Draft** | **Manish Talreja** |

**2. Approvals**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **Title** | **Signature** | **Date** |
| **Project Sponsor** | **Amber** | **Business Owner** |  | **03/03/25** |
| **Project Manager** | **Vaishali** | **PM** |  | **03/03/25** |
| **System Architect** | **Ruchi** | **Solution Architect** |  | **03/03/25** |
| **Development Lead** | **Gourav** | **Lead Developer** |  | **03/03/25** |
| **Quality Lead** | **Sheetal** | **QA Manager** |  | **03/03/25** |

**3. RACI Chart**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Gather Requirement** | **Plan the website** | **Design the Website** | **Implementation** | **Test & review**  | **Launch** |
| **Project Manager**  | **Accountable** | **Accountable & Responsible** | **Accountable** | **Accountable** | **Accountable** | **Accountable** |
| **Business Owner** | **C** | **C** | **X** | **I** | **R** | **C** |
| **Business Analyst** | **R** | **X** | **C** | **X** | **C** | **I** |
| **Web Designer** | **C** | **C** | **R** | **C** | **C** | **I** |
| **Lead Developer** | **C** | **C** | **C** | **I** | **R** | **I** |
| **QA Lead** | **I** | **C** | **I** | **I** | **A** | **R** |

**4. Introduction**

**4.1 Business Goals**

**To develop an e-commerce website using Drupal that enables the customer (a US-based pharmaceutical company) to sell Vets & Pets products online.**

**4.2 Business Objectives**

* Develop web pages using Drupal Modules & Themes
* Enable secure payment gateway integration
* Ensure SLA-compliant post-development support
* Enhance user experience with a seamless shopping interface

**4.3 Business Rules**

* Only registered users can make purchases.
* Payment transactions must follow PCI-DSS security compliance.
* Change Requests (CRs) must be addressed as per SLA priority**.**

**4.4 Background**

The customer requires a scalable, secure, and customizable web solution to expand their digital sales of Vets & Pets products. The use of Drupal ensures a low-code, quick-to-deploy solution.

**4.5 Project Objective**

To deliver a fully functional e-commerce website that meets customer requirements, ensures compliance, and provides post-development support.

**4.6 Project Scope**

**4.6.1 In-Scope Functionality**

**✔** Development of Drupal-based e-commerce web pages
✔ User registration, login, and profile management
✔ Product catalog and search functionality
✔ Secure payment gateway integration
✔ Order tracking and history for users
✔ SLA-based post-development support

**4.6.2 Out of Scope Functionality**

**❌** Mobile application development
❌ Custom CMS development outside Drupal modules
❌ Integration with third-party logistics providers

**5. Assumptions**

* The customer will provide clear and stable requirements at the beginning of the project.
* Development will be completed within 8 weeks using the Waterfall methodology.
* Drupal’s existing modules will be sufficient to meet customer needs.

**6. Constraints**

* The project must adhere to PCI-DSS compliance for payment transactions.
* SLA guidelines must be followed for Change Requests.
* Project budget is fixed at ₹50,00,000.

**7. Risks**

**7.1 Technological Risks**

* Developers may require additional training on Drupal modules & security protocols.

**7.2 Skills Risks**

* The project depends on Drupal-experienced developers; lack of expertise may delay timelines.

**7.3 Business Risks**

* If the website does not perform as expected, customer satisfaction & retention may be impacted.

**7.4 Security Risks**

* Payment gateway vulnerabilities could expose customer financial data.

**7.5 Mitigation Strategies**

* Conduct Drupal training for developers.
* Perform early feasibility checks on requested changes.
* Implement secure authentication and encryption for transactions.

**8. Business Process Overview**

**8.1 Legacy System (AS-IS)**

Currently, the customer sells products only via offline distributors, limiting their market reach.

**8.2 Proposed Solution (TO-BE)**

* Develop an online e-commerce portal to enable direct customer sales.
* Provide a secure payment gateway for online transactions.
* Ensure real-time order tracking & inventory updates.

**9. Business Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Req ID** | **Requirement Name** | **Description** | **Priority** |
| **BR001** | **User Registration** | **Users should be able to create an account** | **High** |
| **BR002** | **Product Catalog** | **Display all available products with filters** | **High** |
| **BR003** | **Secure Payments** | **Integrate with a payment gateway (Credit/Debit/UPI)** | **High** |
| **BR004** | **Order Tracking** | **Users should be able to track order status** | **Medium** |
| **BR005** | **Admin Panel** | **Admin should manage inventory, users, and orders** | **High** |

**10. Appendices**

**10.1 List of Acronyms**

* DRM – Drupal Module
* PCI-DSS – Payment Card Industry Data Security Standard
* SLA – Service Level Agreement

**10.2 Glossary of Terms**

* Drupal – A content management system (CMS) used for building websites.
* E-commerce – Online platform for buying and selling goods.

**10.3 Related Documents**

* Functional Requirements Document (FRD)
* Requirement Traceability Matrix (RTM)

**✅ Conclusion**

This BRD outlines the objectives, scope, risks, and requirements for the Drupal-based e-commerce website. Following the Waterfall model, the project will ensure timely delivery, compliance with security standards, and post-development support to the customer.