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**[e-Shoprite Nigeria]**

Business Requirements Document (BRD)

Version 01

# Version and Approvals

**UTORS**

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| --- | --- |
| **Version History** | |
| **Version #** | **Date** | | **Revised By** | **Reason for change** |
| **01** | **15/07/2021** | | **Mr. Ben Chike/ Mr. Ugege Peter** |  |
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This document has been approved as the official Business Requirements Document for e-Shoprite, and accurately reflects the current understanding of business requirements. Following approval of this document, requirement changes will be governed by the project’s change management process, including impact analysis, appropriate reviews and approvals.

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| **Document Approvals** | |
| **Approver Name** | **Project Role** | | **Signature/Electronic Approval** | **Date** |
| **Mr Ben Chike** | **Director of Operations** | |  |  |
| **Mr Ugege Peter** | **PM/PO** | |  |  |
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**Table of Contents**

[Project Details 1](#_Toc343520616)

[Overview 1](#_Toc343520617)

[Document Resources 1](#_Toc343520618)

[Glossary of Terms 1](#_Toc343520619)

[Project Overview 1](#_Toc343520620)

[4.0 Project Overview and Background 1](#_Toc343520621)

4.1 Scope:

4.1.1 Inclusions

4.1.2 Exclusions

[4.2 Project Dependencies 2](#_Toc343520622)

[4.3 Stakeholders 2](#_Toc343520623)

[Key Assumptions and Constraints 2](#_Toc343520624)

[5.1 Key Assumptions and Constraints 2](#_Toc343520625)

[Use Cases 2](#_Toc343520626)

[Use Case Diagram 2](#_Toc343520627)

[Use Case Narrative 3](#_Toc343520628)

[Business Requirements 5](#_Toc343520629)

[Appendixes 6](#_Toc343520630)

[Appendix A – Business Process Flows 6](#_Toc343520631)

[Appendix B – Business Rules Catalog 9](#_Toc343520632)

[Appendix C- Models 9](#_Toc343520633)

[Traceability Matrix 9](#_Toc343520634)

[Use Case Narrative Instructions 9](#_Toc343520635)

Project Details

|  |  |
| --- | --- |
| **Project Name** | e-Shoprite |
| **Project Type** | **Software Development (eCommerce Platform)** |
| **Project Start Date** | 11 July 2021 |
| **Project End Date** | 2nd March 2022 |
| **Project Sponsor** | Mrs Francis Oni |
| **Primary Driver** | First e-commerce platform with high visibility and proximity to customers |
| **Secondary Driver** | High Management competency and access to resources |
| **Division** | Software Engineering |
| **Project Manager/Dept** | Ugege Peter/ Information Technology |

Overview

This document defines the high-level requirements for e-Shoprite. It will be used as the basis for the following activities:

* Creating solution designs
* Developing test plans, test scripts, and test cases
* Determining project completion
* Assessing project success

Document Resources

| **Name** | **Business Unit** | **Role** |
| --- | --- | --- |
| Peter Ugege (PM/Product Owner) | 1 | Manage and facilitate the project to ensure smooth operation |
| Roselyn Oke (Finance) | 1 | Make available funds when necessary |
| Agbeja Kayode, Soji Ijidale (Developers) | 2 | Carryout the building of the website/App |
| Julius Adebayo (Business Analyst) | 1 | Perform requirements gathering and documentation |
| Scrum Master (Andrew Titilope) | 1 | Managed sprint prioritization, facilitate scrum ceremonies such as meetings, retrospection, etc |
| Testers (Jadha Hadi) | 1 | Conduct both manual and automation testing |
| UI/UX (Gbemisola Abiola) |  | Design user interface, mapping and workflow |

Glossary of Terms

| **Term/Acronym** | **Definition** |
| --- | --- |
| PM | Project Manager |
| PO | Product Owner |
| BA | Business Analyst |
| UI/UX | User Interface/ User Experience |
| HLR | High Level Requirements |
| LLR | Low Level Requirements |
| SME | Subject Matter Experts |
| TBD | To be Discussed |

Project Overview

## 4.1 Project Overview and Background

e-Shoprite is an e-commerce platform for online Merchants, Retailers and Consumers. previous e-commerce platforms were found to domicile in Lagos and Port Harcourt, Nigeria, an example of such are Jumia, Konga, PayPorte, Jiji, etc. Customer’ experience survey revealed that the farther the distance of the customers to these platform domain, the more time it takes the customers to receive their orders which majority of the customers complained that it takes an average of 5 to 10 days to clear orders of the product(s) within Nigeria while imported products takes 3 weeks to 6 weeks, indicating low proximity to customers, longer time for product delivery and service inefficiency. Previous Platforms were also observed not user’s friendly. Hence, to bridge the gaps in the Nigeria e-commerce, e-shoprite is hereby initiated to deliver seamless products and services to esteemed customers within 24 hours an order is confirmed. This technology shall employ affiliate programme to systematically control and exploit resources in every region and locality within Nigeria to serve our clients and improve their shopping experiences.

To achieve this goal, the following high-level requirements (HLRs) are presented in the table below:

|  |  |
| --- | --- |
| Deliverable | Description |
| 1. Home/Landing Page | The customer will be able to view a dropdown containing create account, manage profile, affiliate programme, Career opportunities and Log out. |
| 2. Shopping Cart | Displays the number of items purchased, and the total price of the order. Clicking on the button will containing all of products added to the cart and an option to "View Cart" or "Checkout". |
| 3. Search box | The customers can type in the search box to search for a product within and between the stores’ product categories. |
| 4. Register, Login & Logout | This feature ensures that students get necessary notifications via email, notifications on upcoming classes, due assignments, reminders, etc. Students and tutors should be able to receive and view notification. The admin can delete, schedule and modify all notifications. |
| 5. Product Display Page | The website should be integrated into the social media platforms of the company thereby allowing users to access all social media platforms directly from the website by just clicking on the appropriate social media icon (Facebook, Twitter, Instagram, Linked-in, YouTube, etcetera). |
| 6. Add to Cart | This feature allows the admin to manage frequently asked questions regarding the business process, only the admin user can upload, edit and delete data but all users can view the details on this feature. |
| 7. Shopping Cart | Displays the number of items purchased, and the total price of the order. Clicking on the button will containing all of products added to the cart and an option to "View Cart" or "Checkout". |
| 8. Payment Gateway | Make possible a Centralized single online payment channel |
| 9. Order History | Customers will be able to view their Order history page |
| 10 Download | Customers shall be able to download items and Order history page |
| 11. Contact Us & Career | This describes Company contact detail and methods. Career opportunities will be displayed |
| 12. News & Newsletter | Customer having profile on the App can receive newsletter and also view latest news on the website regarding ongoing sales promo |
| 13. Footer Option | Foot note to be available creating shortcut links to the items |
| 14. Location>Shop | State, Town and shop for which item is purchased shall be displayed and shall receive processing order for the delivery of such products |

## 4.2 Project Dependencies

TBD

## 4.3 Stakeholders

The following comprises the internal and external stakeholders whose requirements are represented by this document:

|  | **Internal Stakeholders (Infotech Solutions)** |
| --- | --- |
| 1. | Project Sponsor |
| 2. | Project Manager |
| 3. | Product Owner |
| 4 | Developers |
| 5 | Business analysts |
| 6 | Scrum Master |
| 7 | Finance |
| 8 | UI/UX Designers |
| 9 | Testers |
| 10 | Others |

|  | **External Stakeholders (SHOPRITE & Customers)** |
| --- | --- |
| 1. | SHOPRITE CEO |
| 2. | SHOPRITE Director of Operation |
| 3. | SHOPRITE Representative as Designated |
| 4 | Domain Subject Matter Expert (DSME) |
| 5 | Customers |

Key Assumptions and Constraints

## 5.1 Key Assumptions and Constraints (TBD)

|  |  |
| --- | --- |
| **#** | **Assumptions** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| **#** | **Constraints** |
|  |  |
|  |  |
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Use Cases

In the context of this business requirement document (BRD), the primary purpose of the Use Case is to capture the required system behavior from the perspective of the end-user in achieving one or more desired goals. A Use Case contains a description of the flow of events describing the interaction between actors and the system. The use case here shall adopt both behavior-driven development (BDD) and visually in UML in order to show relationships between the use cases and actors.

## The Use Case is presented as User Stories in a separate Excel document while the unify modelling language (UML) will be demonstrated below this document.

## Use Case Narrative

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 01 | | |
| Use Case Name: | Create Account | | |
| Created By: | Julius Adebayo | Last Updated By: |  |
| Date Created: | 16/07/2021 | Date Last Updated: |  |



|  |  |
| --- | --- |
| Actors: | User |
| Description: | As a User, when I click on Create Account and provide my details and password, then my Account should be created |
| Preconditions: | Web browser opened; Home/Landing page accessed. |
| Postconditions: | User navigates to Create Account from the Landing page on e-shoprite website |
| Normal Course: | 1. Open browser 2. Navigate to Create Account on the Landing Page 3. Interact with the Create Account by setting up your profile using available functionality |
| Alternative Courses: | None |
| Exceptions: | None |
| Includes: |  |
| Priority: | High |
| Frequency of Use: | Once, for the first time User |
| Business Rules | TBD… |
| Special Requirements: | * 24/7 access * Response times comparable to common web mapping solutions (e.g. Google) * Computers, or laptops with at least Windows 10, RAM 4 GB, and CPU 3.4 GHZ. * Mobile Phones: Android (Phone/Tablet) or IOS platform (iPhone/iPad). |
| Assumptions: | TBD |
| Notes and Issues: | TBD |
| Use Case Graphic |  |
| Use Case Diagram |  |

Business Requirements

Requirements are documented with respect to each section on the Table below

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement Type | ID – Prefix ?? | ID – Number | Function – Feature - Requirement | Use Case Reference | Required | **??** | **??** | **??** | Comments |
|  | Business User Requirements | | | | | | | | |
| UC01 | f | 01 | Create Account |  |  |  |  |  |  |
|  | f | 02 | Login & Logout | US\_02 |  |  |  |  |  |
|  | f | 03 | Change Password | US\_03 |  |  |  |  |  |
|  | f | 04 | Search | US\_04 |  |  |  |  |  |
|  | F | 05 | Compare Product | US\_05 |  |  |  |  |  |
|  | F | 06 | Product Display Page | US\_06 |  |  |  |  |  |
|  | f | 07 | Add Product to Cart | US\_07 |  |  |  |  |  |
|  | f | 08 | Create Wish List | US\_08 |  |  |  |  |  |
|  | F | 09 | Create Shopping Cart | US\_09 |  |  |  |  |  |
|  | F | 10 | Payment Gateway | US\_10 |  |  |  |  |  |
|  | F | 11 | Home/Landing Page | US\_11 |  |  |  |  |  |
|  | F | 12 | Order History Page | US\_12 |  |  |  |  |  |
|  | F | 13 | Download | US\_13 |  |  |  |  |  |
|  | F | 14 | Contact Us | US\_14 |  |  |  |  |  |
|  | F | 15 | News | US\_15 |  |  |  |  |  |
|  | F | 16 | Career | US\_16 |  |  |  |  |  |
|  | Security, Access Control, and Compliance Requirements (Includes roles, user access needs) TBD | | | | | | | | |
|  | f | 0001 |  |  |  |  |  |  |  |
|  | f | 0002 |  |  |  |  |  |  |  |
|  | f | 0003 |  |  |  |  |  |  |  |
|  | f | 0004 |  |  |  |  |  |  |  |
|  | F | 0005 |  |  |  |  |  |  |  |
|  | F | 0007 |  |  |  |  |  |  |  |
|  | f | 0007 |  |  |  |  |  |  |  |
|  | f | 0008 |  |  |  |  |  |  |  |
|  | Service Level Requirements (Includes Service Level, Scalability, and Performance) | | | | | | | | |
|  | f | 01 | PHP 5.4 | SR\_01 |  |  |  |  |  |
|  | f | 02 | jQuery 2.1.1 | SR\_02 |  |  |  |  |  |
|  | f | 03 | JavaScript | SR\_03 |  |  |  |  |  |
|  | f | 04 | Database (MySQL suggested) | SR\_04 |  |  |  |  |  |
|  | Support and Maintenance Requirements | | | | | | | | |
|  | f | 001 | Computers, or laptops with at least Windows 10, RAM 4 GB, and CPU 3.4 GHZ. | MR\_001 |  |  |  |  |  |
|  | f | 002 | Mobile Phones: Android (Phone/Tablet) or IOS platform (iPhone/iPad). | MR\_002 |  |  |  |  |  |

Appendixes

## Appendix A – e-Shoprite Process Flows



### *As Is Diagrams*

*To Be Diagrams*



## Appendix B – Business Rules Catalog (TBD)

|  |  |
| --- | --- |
| Business Rule Name: |  |
| Identifier |  |
| Description |  |
| Example |  |
| Source |  |
| Related Rules |  |

## Traceability Matrix

* TO be presented in a separate document

**Test Plan**

**1.** Submit the requirements to the technical team.

**2.** The technical team completes development. Concurrently, the BA builds numbered test scenarios for requirements-based testing. Use decision tables to identify scenarios and boundary-value analysis to select test data. The technical team conducts white-box testing to verify whether programs, fields, and calculations function as specified. The BA or technical team specifies the required quality level for white-box testing, such as multiple-condition coverage.

**3.** Perform requirements-based testing. The BA or dedicated quality assurance (QA) staff administers or supervises tests to prove or disprove compliance with requirements. Ensure that all formulae are calculated properly. Describe principles and techniques to be used in black-box

testing, such as structured testing guidelines and boundary value analysis.

**4.** Conduct system testing. Ensure that the integrity of the system and data remain intact. Conduct the following tests:

* Regression test: Retest all features (using a regression test bed).
* Stress test: Test multiple users at the same time.
* Integration tests: Make sure that the changes do not negatively affect the overall workflow across IT and manual systems.
* Volume test: Test the system with high volume.

**5.** Perform user acceptance testing. Involve the end-users at this stage. Choose key users to review the changes in the test environment. Use the testing software as a final check.

**6.0 Implementation Plan**

**6.1 Training**

Infotech Solutions Ltd is responsible for training.

Training audience: Conveners, general administrators, and Representatives of Stanford Institute.

Forum: For 4-day sessions on-site.

**6.2 Rollout**

Advise all affected users when the project is promoted.

**6.3 End-User Procedures**

TBD.

**6.3 Post-Implementation Follow-Up**

TBD.

**6.4 Other Issues**

**6.5 Sign-Off**

1. Sponsor, Name & Signature: …………………………… Date…………………………
2. Project Manager, Name & Signature…………….…….. Date: ……………………….