TRIBHUVAN UNIVERSITY

Faculty of Humanities and Social Sciences

Yeti International College

“Innovative E-commerce: User-Driven Website Creation and Deployment Sajilo - Eccomerce”

A Proposal Report

Submitted To:

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1. Table of Contents

List of Figures and their page numbers

1. Introduction

Sajilo Ecommerce is a revolutionary platform designed to unleash the full potential of e-commerce for users in the digital age. In the current era of peak digitalization, vendors face an unprecedented surge in daily workloads, making it challenging to efficiently manage products and streamline operations. Recognizing this, we're introducing a multi-tenant-based system tailored to serve vendors, addressing common pain points such as inventory management. Our platform empowers users to overcome these challenges effortlessly.

In an era where the cost of building an e-commerce website can be prohibitively high, Sajilo Ecommerce is a game-changer. We are proud to offer a cost-effective solution, reducing expenses by nearly 75%. This affordability ensures that vendors, big or small, can harness the power of e-commerce without breaking the bank. Additionally, our platform allows users to customize and tailor their online stores, providing the flexibility

to add unique elements that suit their brand and vision. Join us in simplifying the e-commerce journey and making it accessible to all.

2. Problem Statement:

In the ever-evolving landscape of digital commerce, vendors face a myriad of challenges that hinder the optimal utilization of e-commerce platforms. The surge in digitalization has exponentially increased daily workloads for vendors, making it arduous to effectively manage products and streamline operations. Furthermore, the high costs associated with building and maintaining e-commerce websites pose a significant barrier, limiting the accessibility of these platforms to a broader range of vendors.

3. Objectives

The objective of this study is to implement the KNN algorithm to make an image classifier and use it as an OCR. The main objective is given below,

1. Develop a robust multi-tenant system to cater to the diverse needs of vendors, providing a scalable and efficient solution.
2. Implement features that specifically target and alleviate common inventory management issues faced by vendors, ensuring smoother operations.
3. Offer an affordable alternative to traditional e-commerce website development, reducing costs for vendors by approximately 75%.
4. Empower users with the ability to customize their online stores, adding a personal touch to their digital storefronts and enhancing brand identity.
5. Ensure that the platform optimizes daily operations for vendors, minimizing administrative challenges and enhancing overall efficiency.

4. Methodology

4.1 Requirement Identification

In order to comprehensively address the challenges faced by vendors and develop an effective multi-tenant e-commerce system, a thorough process of requirement identification is crucial. This section outlines the methodology adopted for understanding and defining the project requirements.

4.1.1 Literature Review

To gain insights into the existing landscape of e-commerce platforms, a comprehensive literature review will be conducted. This involves a systematic exploration of scholarly articles, research papers, and industry publications related to:

Current E-commerce Trends: Analyzing the latest trends and advancements in the e-commerce industry to inform the development of innovative features.

Multi-Tenant Systems: Investigating successful implementations of multi-tenant systems in e-commerce to understand best practices and potential challenges.

Inventory Management Solutions: Reviewing existing literature on effective inventory management strategies and solutions to incorporate industry best practices.

Cost-Effective E-commerce Development: Exploring literature on cost-effective approaches to website development, including open-source solutions and innovative development methodologies.

4.2 Feasibility Study for Sajilo Ecommerce Platform

A feasibility study is a crucial evaluation of the proposed Sajilo Ecommerce platform to determine its viability and worthiness for pursuit. The study aims to identify potential challenges and risks associated with the project while assessing its potential for success. In the context of the Sajilo Ecommerce project, the feasibility study will consider the following factors:

Technical Feasibility:

Evaluating the feasibility of implementing a multi-tenant system and features for user-friendly website creation and deployment. Assessing the technical viability of incorporating customized themes, product management tools, and an intuitive interface.

Financial Feasibility:

Calculating the costs associated with platform development, maintenance, and user support.

Assessing the financial feasibility of offering a cost-effective solution, reducing expenses for vendors by approximately 75%.

Economic Feasibility:

Investigating the economic feasibility of the project by considering its potential to streamline operations, reduce manual workloads for vendors, and enhance overall efficiency. Assessing the economic impact of empowering small businesses to thrive in the digital marketplace.

Operational Feasibility:

Analyzing the operational aspects of the platform, including user onboarding, website customization, and product management.

Evaluating the ease with which users can navigate the system and deploy their e-commerce websites.

By conducting a comprehensive feasibility study for the Sajilo Ecommerce platform, project sponsors can make informed decisions regarding its progression. The study will also pinpoint any potential risks or challenges, allowing for strategic planning and mitigation measures to ensure the project's success.

4.1 Project Timeline

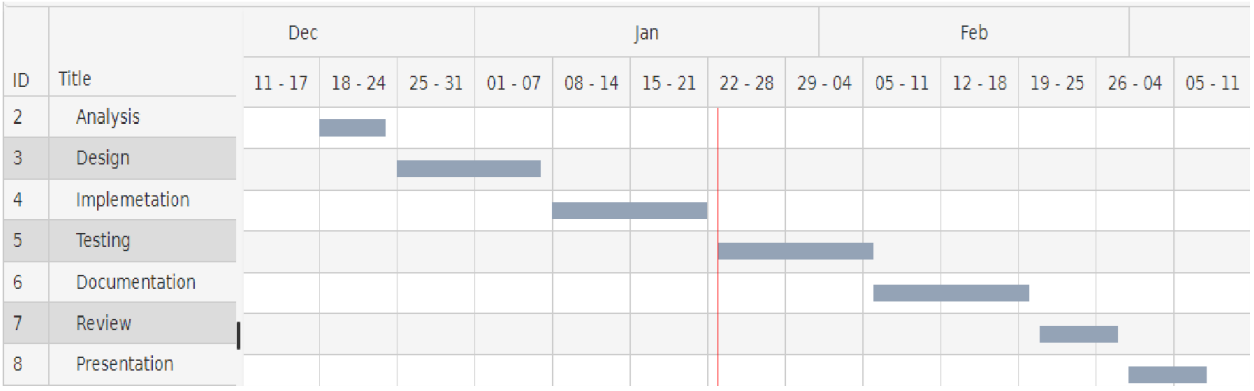


Figure 1: Gantt Chart showing the project schedule

4.4 System Design

1. Architecture:

1. Utilize a scalable and modular architecture for flexibility.
2. Implement microservices for efficient maintenance.

2. User Interface (UI):

1. Design an intuitive and customizable interface for vendors.
2. Ensure mobile responsiveness for a seamless user experience.

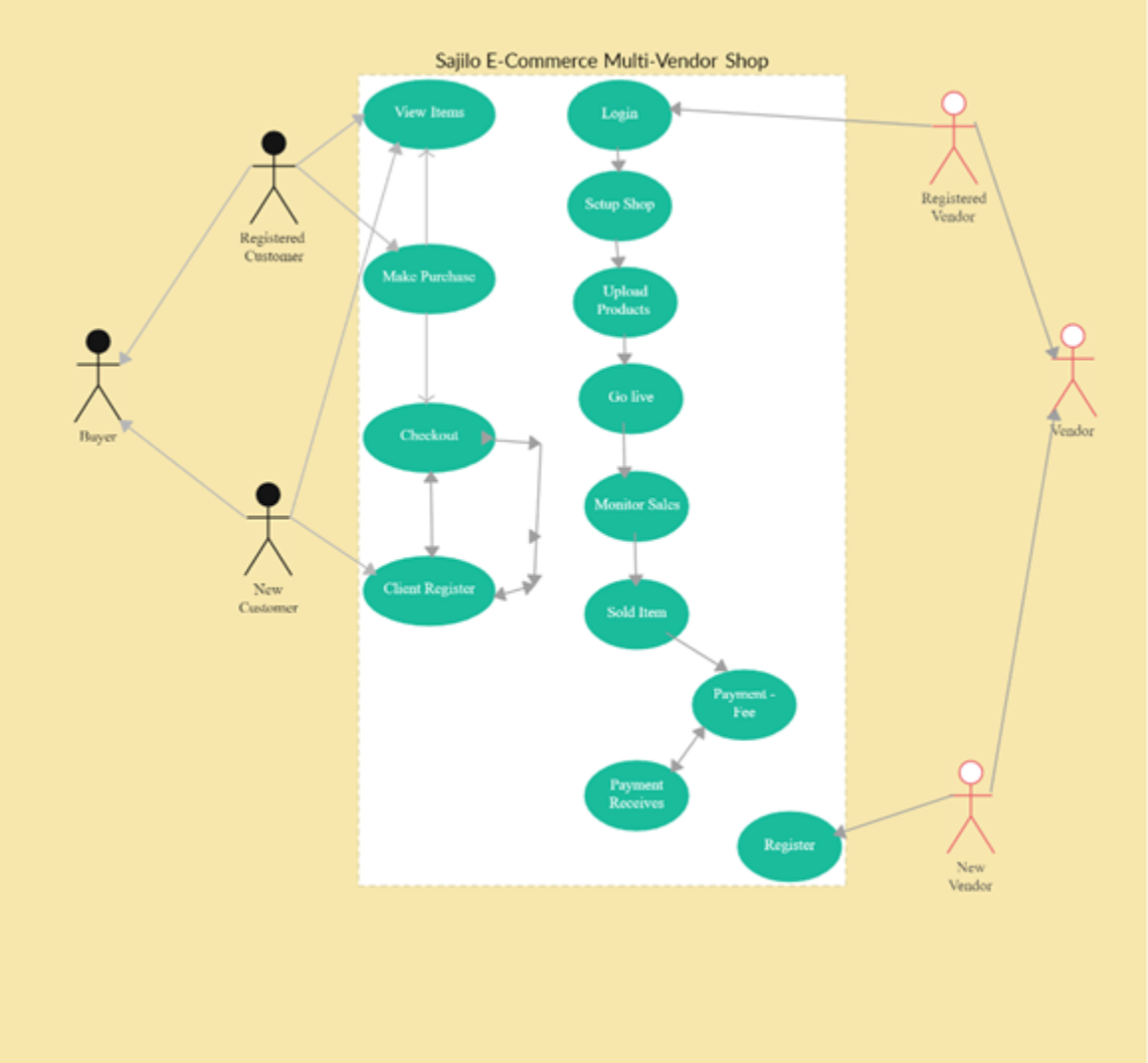
3. Payment and Order Management:

1. Integrate a secure payment gateway for transactions.
2. Implement a robust order management system.

4. Security and Compliance:

1. Employ encryption and secure coding practices.
2. Ensure compliance with data protection and privacy laws.

This streamlined system design focuses on the essential aspects of architecture, user interface, payment/order management, and security for the Sajilo Ecommerce Platform. Each point can be expanded upon during the development phase for a more detailed implementation plan



Case Diagram of sajilo eccomerce

5.Expected Outcomes

The expected outcome of sajilo e-commerce are:

1. **Increased sales for vendors:** The platform will provide vendors with a wider reach and access to a larger customer base, leading to increased sales opportunities.

2. **Improved efficiency for vendors:** The platform's streamlined features will help vendors manage their online stores more efficiently, saving time and resources.

3. **Reduced costs for vendors:** The platform's cost-effective solution will help vendors reduce the costs associated with developing and maintaining their own e-commerce infrastructure.

4. **Enhanced customer experience:** The platform's user-friendly interface and wide range of features will provide a positive customer experience, leading to increased customer satisfaction and loyalty.

5. **Expanded market reach:** The platform will attract new vendors and customers, expanding the overall market reach of the platform.

6. **Increased profitability for the platform operator:** The platform will generate revenue through transaction fees and other monetization models, leading to increased profitability for the platform operator.

Overall, the proposed multi-vendor E-Commerce platform is expected to be a successful venture that will benefit all stakeholders involved.