

Tribhuvan University
Institute of Science and Technology
Nepathya College



A Final Year
Internship Report
On
Purano Bazar: A Multi-vendoer E-commerce platform
At
“Bootwal R & D Pvt. Ltd.”

**In partial fulfillment of the requirements for the Bachelor’s Degree in Computer
Science and Information Technology (B.Sc. CSIT)**

Submitted to
Nepathya College
Department of Computer Science and Information Technology
Tribhuvan University

Submitted by
Sagar Gharti (8558/072)

February, 2020

STATEMENT OF AUTHORSHIP AND ORIGINALITY

I hereby certify that I am the author of this document and that any assistance I received in its preparation is fully acknowledged and disclosed in the document. I have also cited all sources from which I obtained data, ideas or words that are copied directly or paraphrased in the document. Sources are properly credited according to accepted standards for professional publications.

I also certify that this internship report was prepared by me for the purpose of partial fulfillment of requirements for the Computer Science and Information Technology.

Sagar Gharti [8558/072]

SUPERVISOR'S RECOMMENDATION

I hereby recommend that this report has been prepared under my supervision by **Sagar Gharti** entitled “**Purano Bazar**” is accepted as fulfilling in partial fulfillment of the requirements for the degree of BSc. in Computer Science and Information Technology, be processed for evaluation.

.....

Mr. Ananta Pandey

Supervisor/ Co-Ordinator

Nepathya College

CERTIFICATION OF APPROVAL

We certify that we have read this dissertation work and, in our opinion, an internship report submitted by Sagar Gharti is satisfactory on the scope and quality as a dissertation in the partial fulfillment for the requirement of Bachelors of Science in Computer Science and Information Technology.

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Mr. Sanjeev Bhandari

Principal

Nepathya College

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to all those who helped us in various ways while undertaking this project and devising the report. The intern would like to extend gratitude towards **Mr. Ananta Pandey**, supervisor for his valuable support and entire staff, who have made it pleasure for interns by creating an appropriate environment for the successful completion of this project.

The intern owes sincere gratitude to **Mr. Shiva Bhattarai** and **Mr. Manoj Pokhrel** for their valuable suggestion, ideas and encouragement throughout this report. It was almost impossible to present this report in this form without their guidance and support. The intern also likes to express sincere and respectful regards **Mr. Sanjeev Bhandari** principal of Nepathya College, for stimulating intern towards the path of academic pursuit and providing constant support to complete internship period. Finally, the intern would like to thank all who have directly or indirectly assisted to make this endeavor a success.

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ABSTRACT

Interaction and individual stimulation have always been linked to the technological availability of the time and place. With the transition to an information-based society, computers and transactions have evolved from manual transaction.

This report contains the details of the activities carried out during the internship conducted for the three months internship duration. The application is implemented in Node JS and MySQL.

The main focus of this report is Web-Based Online Shopping for “online users”. Online shopping is a Web-based intended for the online retailer. The main objective of this website is to make it interactive and its ease of use. It would make searching, viewing, comparing and selection of a product easier. User can view the complete specification of each product. The website provides a feature to a user to add a product, update the item in the product and delete the product into the shopping cart. The main emphasis lies in providing a user-friendly online shopping cart that consists of features to add, update and delete the product.

Keywords: *online shopping, admin module, customer module, Node js.*

LIST OF FIGURES

Figure 3. 1: Use Case Diagram	11
Figure 3. 2: ER Diagram	13
Figure 3. 3: Context Diagram	14
Figure 3. 4: Level-0 DFD.....	15
Figure 3. 5: Level-1 DFD.....	15
Figure 4. 1: Architectural Design.....	16
Figure 4. 2: Database Schema.....	17
Figure 4. 3: Flow Chart.....	18

LIST OF TABLES

Table 1. 1: Contact Detail of Organization	3
Table 1. 2: Internship Duration	4
Table 1. 3: Roles and Responsibilities of Supervisor and Team Member	4
Table 6. 1: Validation of Empty Form	21
Table 6. 2: Validation of email	21
Table 6. 3: Validation of Password	22
Table 6. 4: System Testing	23

LIST OF ABBREVIATIONS

BSc CSIT	Bachelor in Science in Computer Science Information Technology
CSS	Cascading Style Sheet
ER	Entity Relationship
HTML	Hypertext Markup Language
JS	JavaScript
DBMS	Database Management System
TU	Tribhuvan University

TABLE OF CONTENTS

ACKNOWLEDGEMENT	i
ABSTRACT.....	ii
LIST OF FIGURES	iii
LIST OF TABLES	iv
LIST OF ABBREVIATIONS.....	v
TABLE OF CONTENTS.....	vi
CHAPTER 1: INTRODUCTION	1
1.1 Introduction	1
1.1.1 Introduction to the project	2
1.1.2 Scope	2
1.1.3 Limitations.....	3
1.1.4 Brief Introduction of Organization	3
1.1.5 Duration of Internship	4
1.1.6 Roles and Responsibilities.....	4
1.2 Problem Statement	5
1.3 Objectives.....	5
1.4 Responsibilities Assigned	6
1.5 Motivation	6
1.5.1 Motivation for choosing Bootwal Nepal Pvt. Ltd.	6
1.5.2 Motivation for choosing Node js for web development	6
1.6 Report Organization	7
CHAPTER 2: LITERATURE REVIEW	8
2.1 Literature Review.....	8
CHAPTER 3: SYSTEM ANALYSIS.....	10
3.1 System Requirements:.....	10

3.1.1 Functional Requirements	10
3.1.2 Non-Functional Requirements.....	11
3.2 Feasibility Analysis	12
3.2.1 Technical Feasibility.....	12
3.2.2 Operational Feasibility	12
3.2.3 Economic Feasibility	12
3.3 Data Model of the System.....	13
3.4 Process Model of the System	14
3.4.1 Context Diagram.....	14
3.4.2 Level-0 DFD	15
3.4.3 Level-1 DFD	15
CHAPTER 4: SYSTEM DESIGN.....	16
4.1 Architectural Design	16
4.2 Database Design.....	17
4.3 Process Design	18
CHAPTER 5: IMPLEMENTATION	19
5.1 Front end Tools	19
5.2 Back end Tools.....	19
5.3 Documentation Tools	20
5.4 Development Methodology.....	20
CHAPTER 6: TESTING.....	21
6.1 Unit Testing.....	21
6.2 Integrated Testing.....	22
6.3 System Testing	23
CHAPTER 7: CONCLUSION	24
7.1 Conclusion.....	24
7.2 Lessons Learnt.....	24

REFERENCES	25
APPENDIX.....	26

CHAPTER 1: INTRODUCTION

1.1 Introduction

The internship program is designed to help students learn the excerpts of real-time field experience along with an opportunity to share their insights, explore the dynamic between their academic preparation and their work environment responsibilities, and to assist participants in developing and carrying out the major research project which will serve to culminate their internship experience. Internships are individualized and customized to the needs and interests of each student in the program. As part of the internship experience, students are expected to take an active role in finding an appropriate internship for themselves.

As per the requirement of the TU for the BSc. CSIT final year students are required to complete a six-credit (minimum ten weeks/180 hour long) internship as a part of the course requirement. An internship is a great way to develop specific skills and knowledge, as well as make contacts and build confidence. More and more, employers assess the skills and abilities of prospective employees by evaluating their previous experiences [1]. The internship gives the real-world exposure to the professional life and show wider exploration of the career opportunities in information technology and software development.

The internship as per the requirement of Tribhuvan University for BSc CSIT has become a key for students' placement in the information technology sector of Nepal, especially in the present economy. An ideal intern program ensures that every relevant subject learnt during the course of four years including Data Structure and Algorithm, Design Analysis and Algorithm, Database Management System, Data Mining and Data Warehouse, Web Technology, Distributed Database and others get implemented in real-time. During this internship period, students were introduced to the organizational structure, professional world, ISO Standards of the organization. Intern students not only get first hand experience of how real-time application development works but having an internship in the resume upon graduating amplify the chances of landing on a full-time job.

1.1.1 Introduction to the project

“Purano Bazar” is an online web-based site which act as a platform for connecting buyers and sellers with a certain amount of charges. Purano Bazar operates as a marketplace for used goods including furniture, musical instruments, sporting goods, vehicles, electric, mobile phones. It can accessible through the internet. Main. The seller can post all the details on this portal with all relative information with his/her contact no. The projects help in proper management and coordination of all the records and information.

Computerized Purano Bazar system is developed to facilitate the general administrative System to manage information of the customer and seller and process involving in dealing between them so that information can access accurate quickly and easily as when required, thereby improving its operational efficiency and effectiveness.

In today’s competitive environment, where everybody is on the top, information plays a very crucial role. As fast as information is accessed and processed, it can give a good result. Today is a fast way of transferring data and information over a wide area, hence we have used the internet as a way of exchanging information.

Computerized Systems helps to fulfil these goals. It will help in easy storage information but the access of information is difficult until the admin can’t give permission, items can’t see by a vendor. In this system, the customer can able to register for this site and get the detailed information of items and contact numbers. This app has other major parts that are the administration part. The admin user can able to login into the application for managing the information if any modified is required. The admin can keep the item’s catalogue updated all the time so that the customer gets the updated information all the item. The main users are Admin, Vendor, User.

1.1.2 Scope

Main motivated of this site is to improve people’s life by bringing them a win-win situation. Purano Bazar provided the buyer to buy the products according to their needs and sellers gets millions of buyers so they can sell products easily and gets good benefit. With this website, there is no limit to reach an audience around the city without taking any extra effort. Purano Bazar remains alive and alerts all the time and if the physical shop is left closed.

1.1.3 Limitations

It has some issues which can be overcome in future, some of them are:

- No assurance of quality.
- Some people post fake ads.

1.1.4 Brief Introduction of Organization

Bootwal R&D Pvt. Ltd. is a global professional service company, providing a broad range of services and solutions in strategy, consulting, digital and technology since 2019. It is situated in Tilottama, Rupandehi. Bootwal believes in empowering with information, building relationships and taking social responsibilities. To make software easier for people to use and operate, it performs a huge level of testing and debugging through qualified professionals and native users. The main strategy is to discover and analyze the project to find the best possible solution for a product that contains all the possible current technologies and methodologies and test them in the developer and user level.

Bootwal R&D's mission is to provide a digital solution for database management, website and application development. For each of the solution the Bootwal R&D focuses on making it efficient, user-friendly as well as cost-effective. Bootwal R&D works with languages and technologies like Flutter, Java, PHP with Laravel, Node.js, MySQL, WordPress and some other development tools.

Bootwal follows industry standards of software development approach to deliver the highest level of satisfaction to the client. The team keeps themselves updated with new tools and technologies available in the market.

Following are the contact details of the Bootwal Nepal Pvt.Ltd.

Table 1. 1: Contact Detail of Organization

Address	Tilottama -9, Rupandehi
Phone Number	9857012847
Email	info@bootwal.com
Website	www.bootwal.com

1.1.5 Duration of Internship

Table 1. 2: Internship Duration

Start Date	September 4, 2019
Duration	12 weeks
Position	Intern Programmer
Supervisor	Mr. Ananta Pandey
Office Hour	10 AM - 4 PM
End Date	January 25, 2020

1.1.6 Roles and Responsibilities(Optional)

The major role of the author is to research about the related projects done in Nepal and design and develop the project.

Table 1. 3: Roles and Responsibilities of Mentor and Team Member

Mentor	Project planning Schedule tracking Code debugging Information sharing
Team Member	Requirement analysis Designing and Coding Integration plan System testing

	System installation and implementation Project documentation
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1.2 Problem Statement

In the Current time there are many e-commerce sites which provides an easy way to sell the products to a larger customer base. However, there is a lot of competition among multiple e-commerce sites. When users land on an e-commerce site, they expect to find what they are looking for quickly and easily. Also, users are not sure about the brands or the actual products they want to purchase. They have a very broad idea about what they want to buy. Many customers nowadays search for their products on Google rather than visiting specific e-commerce sites.

The goal of this project, to take care of customers need and accessories. Customer can buy the product from our site although they can easily sell their product through this by creating vendor account. There is no any restriction to buy and sell the product through this site

1.3 Objectives

The report is prepared for the purpose of acquainting the achievement of the author during the internship period and the general functions of the company, Bootwal.

The broad objectives of this internship are as follows:

1. To learn Node JS programming language.
2. To be able to develop Node JS web application according to the client's requirements.
3. To study a different type of problems faced in web application development life cycle.
4. To learn the testing methodologies implemented in the system.

1.4 Responsibilities Assigned

The candidates are required to complete various activities in their internship period.

The roles and responsibilities are enlisted as follows:

- Use the search-ask-learn paradigm while learning various technologies for project.
- Complete the assigned task with the schedule as defined by supervisor.
- If, in case of any project issues, notify to the supervisor.
- Learn the working environment skills (communication, team working).

1.5 Motivation

1.5.1 Motivation for choosing Bootwal Nepal Pvt. Ltd.

Bootwal is a group of young, motivated, and skilled people whose main goal is to provide their client with an innovative solution regarding web development, software development and mobile app development. Whether it's a mobile application, web development, software development its work is built for scale, performance and longevity. It provides a digital solution for website, CMS, e-commerce, web application and SEO and works with languages and technologies like Angular, Node.js, Java, PHP, WordPress and other developmental tools.

As per the requirement of the Tribhuvan University (TU), the final year students of B.Sc. CSIT is required to complete a six-credit (minimum ten weeks/180 hours long) internship as a part of the course requirement. Internship is one medium that helps to break down the bars between the professional and the student life. Since, an internship is the course curriculum of TU, every student perusing BSc. CSIT need to do the internship in any area of their interest. So, the first motivation for choosing Bootwal was to fulfil my academic requirements. Besides this, working as an intern in the organization it helped for getting the opportunity to work in real-time projects which motivated me to work more towards my area of interest.

1.5.2 Motivation for choosing Node js for web development

Node js was used because of high performance, easy scalability, large community and high level of security mechanisms. It is an open source development platform for executing JavaScript code server-side. Node js built on chrome's JavaScript runtime for easily

building fast, scalable network applications. It uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices. node has written in C, C++, JavaScript.

1.6 Report Organization

Chapter 1: Introduction puts emphasis on Overview, Problem Statement, Objectives, Scope and Limitation of the project.

Chapter 2: Discuss about the literature survey about the existing system/related works.

Chapter 3: System analysis that contain the feasibility study, system requirement, Data Model, Process Model

Chapter 4: System Design gives the design of the system developed so that it can be used during the project implementation.

Chapter 5: Implementation provides an indication of how the system is implemented, what tools/platforms have been used. Testing clarifies the system workflow.

Chapter 6: Conclusion marks an end to the document by summing up the entire project and also opening the door further for research in improving the developed system. The lesson learnt is also included in this chapter.

CHAPTER 2: LITERATURE REVIEW

2.1 Literature Review

Purano buy an E-commerce site with multi-vendor is a system developed using Node Js Html, CSS, Bootstrap and MySQL as a database. This site works as mediator for vendor and the buyer. This site helps the vendor to sell its product and buyer to buy the product through the help of internet. In online marketing, a shopping cart is a piece of e-commerce software on a web server that allows visitors to an internet site to select items for eventual purchase, analogous to the American English term “shopping cart.” [2] Storefront: the area of the Web store that is accessed by visitors to the online shop. Category, product, and other pages (e.g. search, best sellers, etc.) are dynamically generated by the software based on the information saved in the store database. The look of the storefront can normally be changed by the store owner so that it merges with the rest of the Web site (i.e. with the pages not controlled by the shopping cart software in use on the store) [3].

In today’s scenario we can see that people have become very busy with their lives. In this busy life the main problem for people is finding the primitive product in a right time. People usually doesn’t find what they are actually looking for. Travelling to different stores and comparing among the product, searching the right product waste the time and money. Usually people have to compromise with the similar product they find rather than finding the right product. Due to lack of time people have to spend more money than the actual price in the same product.

Some online players such as eBay have been providing a platform for third party providers to sell their items through their ecommerce site. It is now common for online retailers and manufacturers to integrate with marketplaces such as Amazon, eBay, Overstock.com, and Buy.com. The concept has picked up significantly as digital marketplace after the success of Apple’s Application Store for iPhone in 2008. With an estimated \$30 billion market for Mobile applications by 2013, software and SaaS vendors are also expected to follow the race to own and monetize app marketplaces as innovated by Google, Sales force and Intuit. With the advancement of technology, e-commerce website has the huge scope in all the areas. In today’s world many people depend on internet for carrying out their work. 80% people use the internet services in Nepal. Among those users many of them uses the e-

commerce website to carry out their business. The use of this website helps the vendor to sell their product and buyer to find the right product saving their precious time and money. Ecommerce websites have the ability to distribute, sell, or buy goods or services online through the transfer for funds with electronic networks or communications. A multi-vendor Internet commerce system (MV-ICS) is provided which includes a centrally implemented multi-vendor central processing unit (MV-CPU) acting cooperatively with a centrally implemented multi-vendor shared data store (MV-SD). Using a variety of vendor-site I/O modules and consumer-interface I/O modules, the resources with the MV-SD may be shared by the plurality of vendor websites. Awareness, as well as increasing customer loyalty. The possibilities are endless, and it is a good idea to leverage an online store to increase our business.

CHAPTER 3: SYSTEM ANALYSIS

Generally, System development comprises of two major phases: System Analysis and System Design. In System Analysis, the details of the existing system or proposed one is understood and decided whether a proposed system is desirable or not and decided whether the existing system needs improvements. System analysis helps to understand the proposed system architecture, working and goals. Thus, System Analysis can be summarized as the process of investigating a system, identifying problems and using the gathered information to improve an existing system or develop the proposed one.

By interacting with business associates, studying the documents provided by the business analyst, discussing with the senior developers and studying the existing system we analyze the requirements of the system to be developed for the clear view of how the system should be and how it should be working so as to fulfil user requirements

3.1 System Requirements:

Every system needs some requirements for the development process. Without requirements, the system cannot be developed. It includes:

3.1.1 Functional Requirements

Functional Requirements defines what the system must do. It defines the behaviors or functions of a system, flows, business rules and other requirements of a system along with its output. The functional requirements of this system are as follows:

Login

- User can login and register to buy a product.
- User also can login as a vendor to add their product to sell through this site.

Dashboard

- Admin can control the whole system.
- Admin can control the vendor user to grant access or not.
- Admin can add, edit, update, delete and update the information of the entire product.

Vendor Dashboard

- User can control his dashboard since it provides a dashboard for each vendor user.
- User can add, edit, update, delete, and update the information of his own product.

- User can sell the product from his vendor profile.

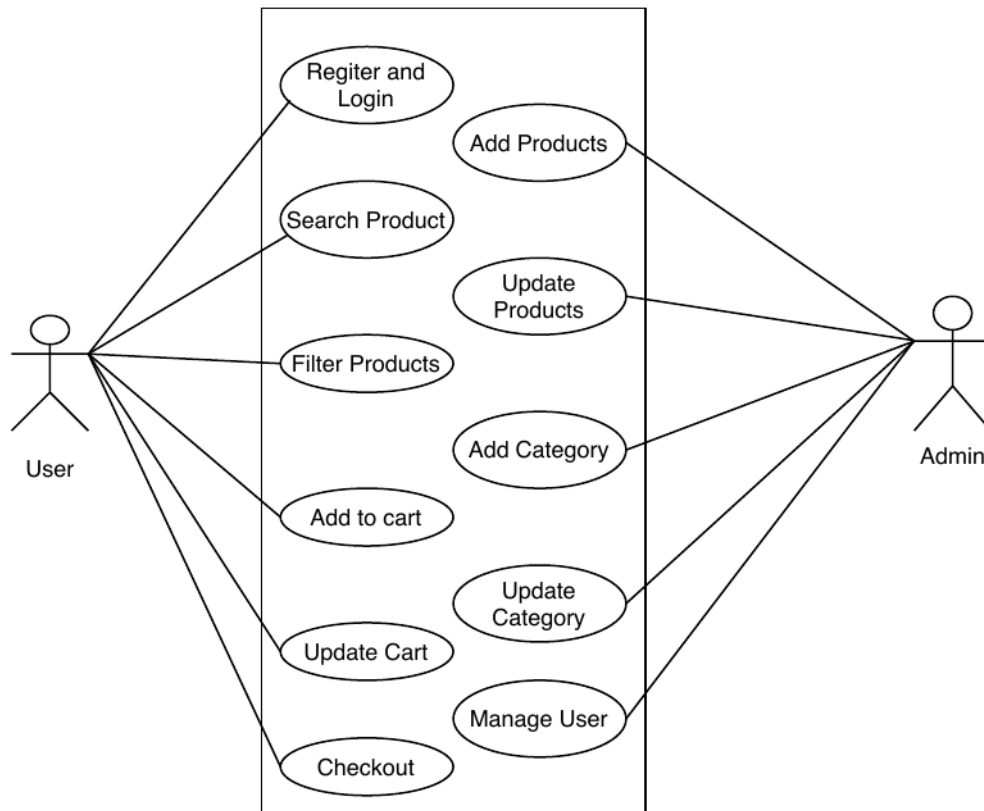


Figure 3. 1: Use Case Diagram

3.1.2 Non-Functional Requirements

It essentially defines how the system must work. The requirements that are not covered by functional requirement are covered by non- functional requirements. The system must be user friendly which means a user must not feel difficulty while using the system.

- **Usability:** This system is user-friendly. It has provided with a nicely aligned navigation menu so that they can go to any page within a short time.
- **Reliability:** There is no error code in the system. The operational performed inside the system is completely correct.
- **Reusability:** There is a modular code that can easily be re-used and fully document such that other engineers can use them.

- **Performance:** An interneer can use techniques to render only what's visible on the page first to increase user perceived time. Internee can take advantage of caching and minifying code to decrease file size. After all the performance of system matter.
- **Browser compatibility:** Internet should make sure the website looks fairly the same in all browsers without using weird hacks.

3.2 Feasibility Analysis

Feasibility Study is used to determine the viability of an idea. It is often used before the actual implementation of the project. The objective of such a study is to ensure a project is legally and technically feasible and economically justifiable. It tells us whether a project is worth the investment.

3.2.1 Technical Feasibility

Technical feasibility involves evaluation of the hardware and the software requirements of the proposed system. This application is developed using Node js and Visual Studio Code for web admin/vendor dashboard and other coding, MySQL for databases. Google Chrome and Mozilla Firefox are used to run the application for facilitating the admin interface. All the necessary hardware and software required for developing and installing the system are available. So, this system is technically feasible.

3.2.2 Operational Feasibility

Operational feasibility is dependent on human resources available for the project and involves projecting whether the system will be used if it is developed and implemented. Our system makes the maximum use of available resources including people, time and flow of forms. Our system provides reliable services to the business personnel or associates and the user should be familiar with the product they are using. This will enhance the reduction in cost and an increase in benefits for the business.

3.2.3 Economic Feasibility

Economic feasibility is the cost and logistical outlook for a business project or endeavor. We considered various factors affecting the systems economic value and performance and

implemented the best one. This tool helps to determine the benefits that can be obtained from the system by comparing them with the various costs. If the benefits are higher than the cost, then the system is considered to be economically feasible to be developed. Else we can easily understand that the system is not economically feasible and certain things are to be worked out and modified in order to acquire the desired economic feasibility. The economic feasibility of the project was based on the budget provided by the cost estimation made by the project manager at Bootwal R & D Pvt. Ltd.

3.3 Data Model of the System

Data Model of the System shows the basic design of the database of the system. In this system, there are four entities user, product, category, brand. User has one too many relationships with the product as one user can buy many products. Category has one too many relationships with a product as one category may have many products. and brand has also one to many relationships with product as well as category.

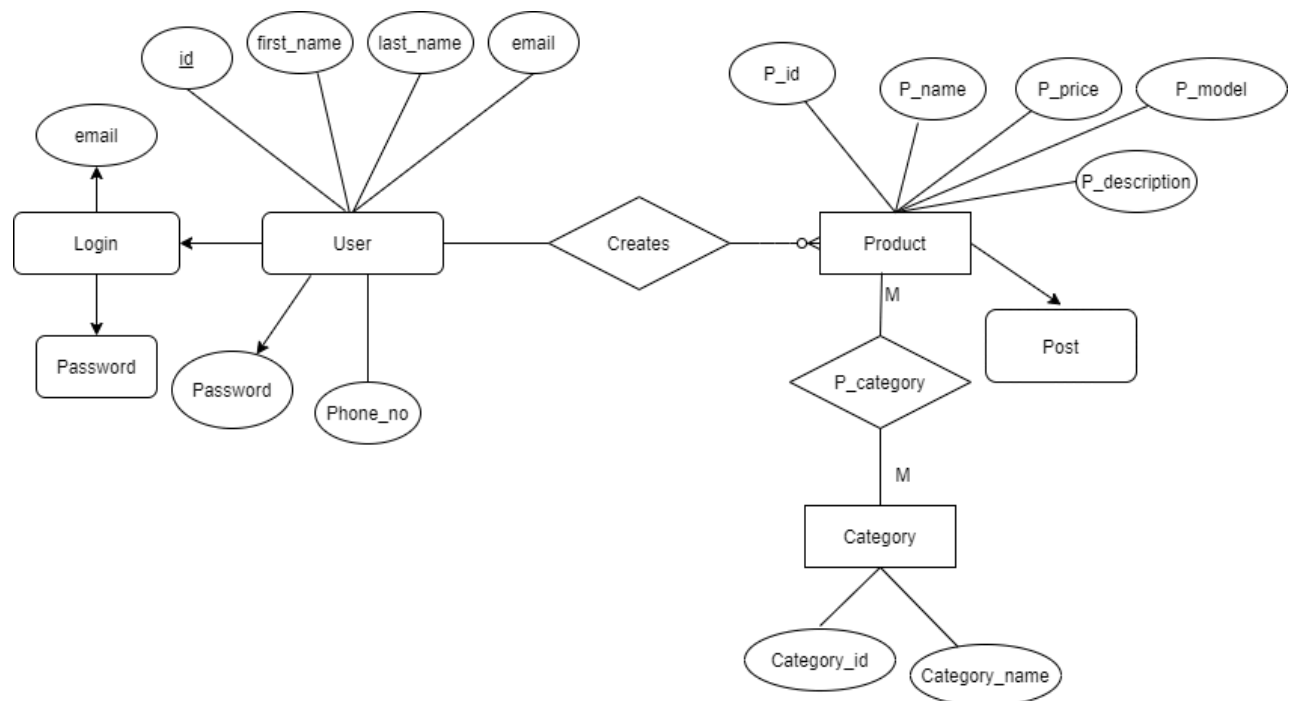


Figure 3. 2: ER Diagram

3.4 Process Model of the System

3.4.1 DFD Diagram

The data flow diagram (DFD) for the Shopping System is a graphical representation of the "flow" of data through the system, modelling its process aspects. DFD is a preliminary step used to create an overview of the system which can later be elaborated. DFD is used for the visualization of data processing and structured design. Context Level Diagram is a diagram that defines the boundary between the system or part of a system, and its environment, showing the entities that interact with it. This diagram is a high-level view of a system.

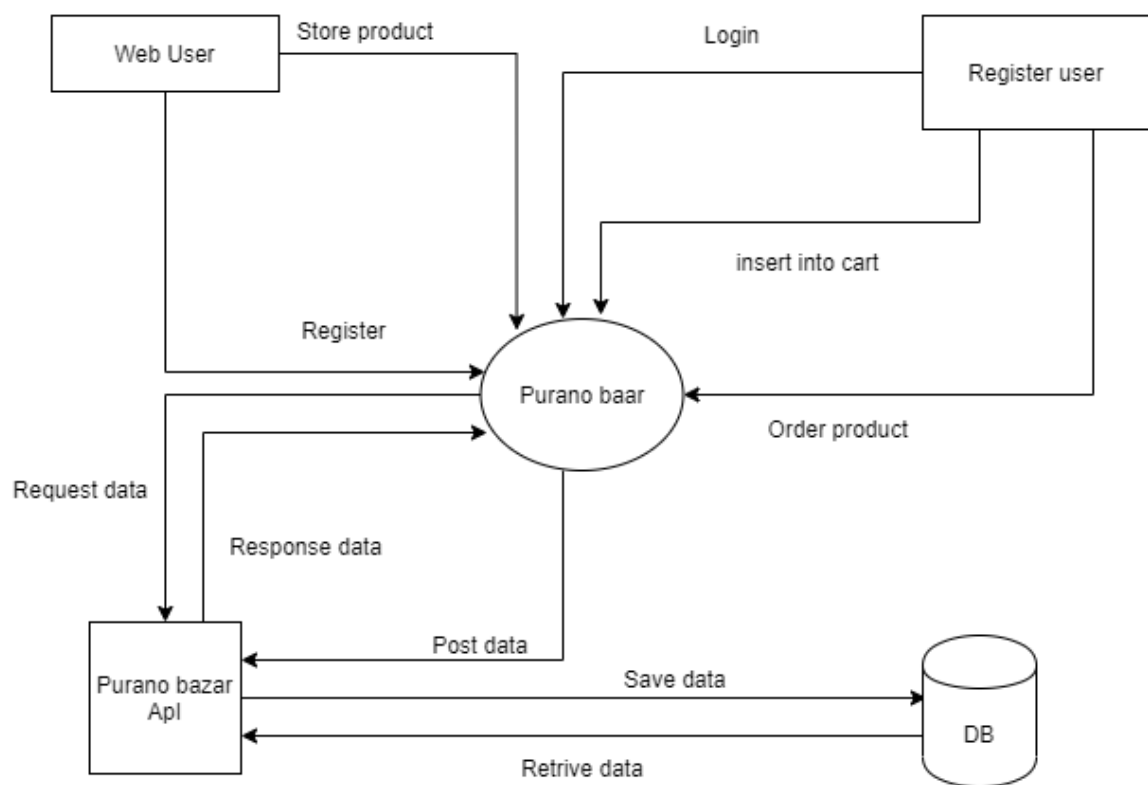


Figure 3. 3: Context Diagram

3.4.2 Level-0 DFD

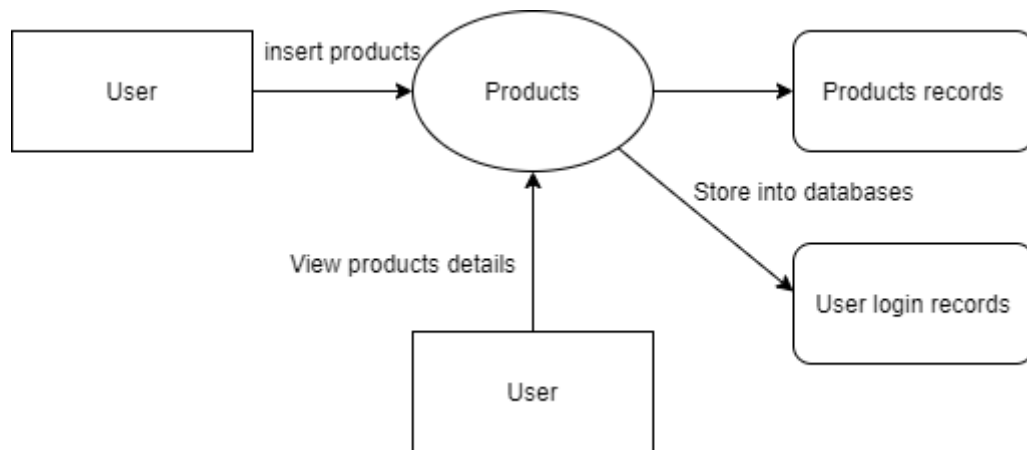


Figure 3. 4: Level-0 DFD

3.4.3 Level-1 DFD

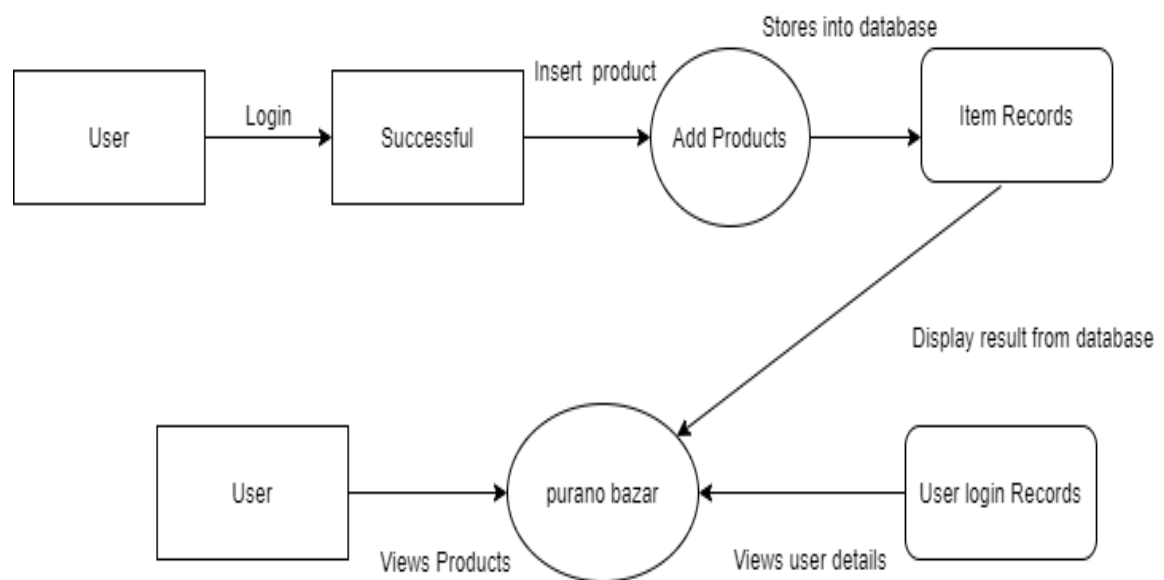


Figure 3. 5: Level-1 DFD

CHAPTER 4: SYSTEM DESIGN

Systems design is the process of defining elements of a system like modules, architecture, components and their interfaces and data for a system based on the specified requirements.

4.1 Architectural Design

Architectural design is the process of defining the elements of a system such as the architecture, module and components, the different interfaces of those components and the data that goes through that system. It is meant to satisfy the specific needs and requirements of a business or organization through the engineering of a coherent and well-running system.

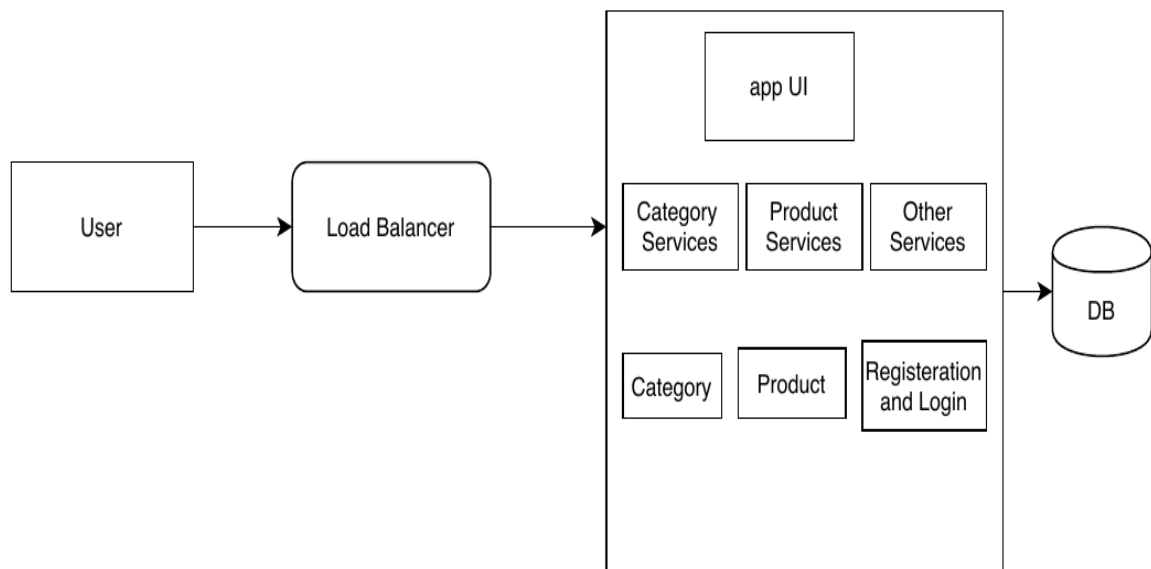


Figure 4. 1: Architectural Design

4.2 Database Design

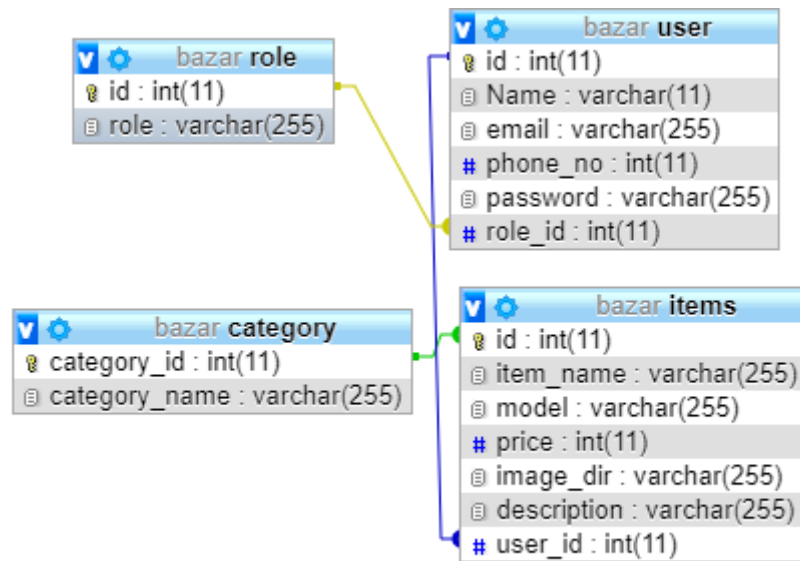


Figure 4. 2: Database Schema

4.3 Process Design

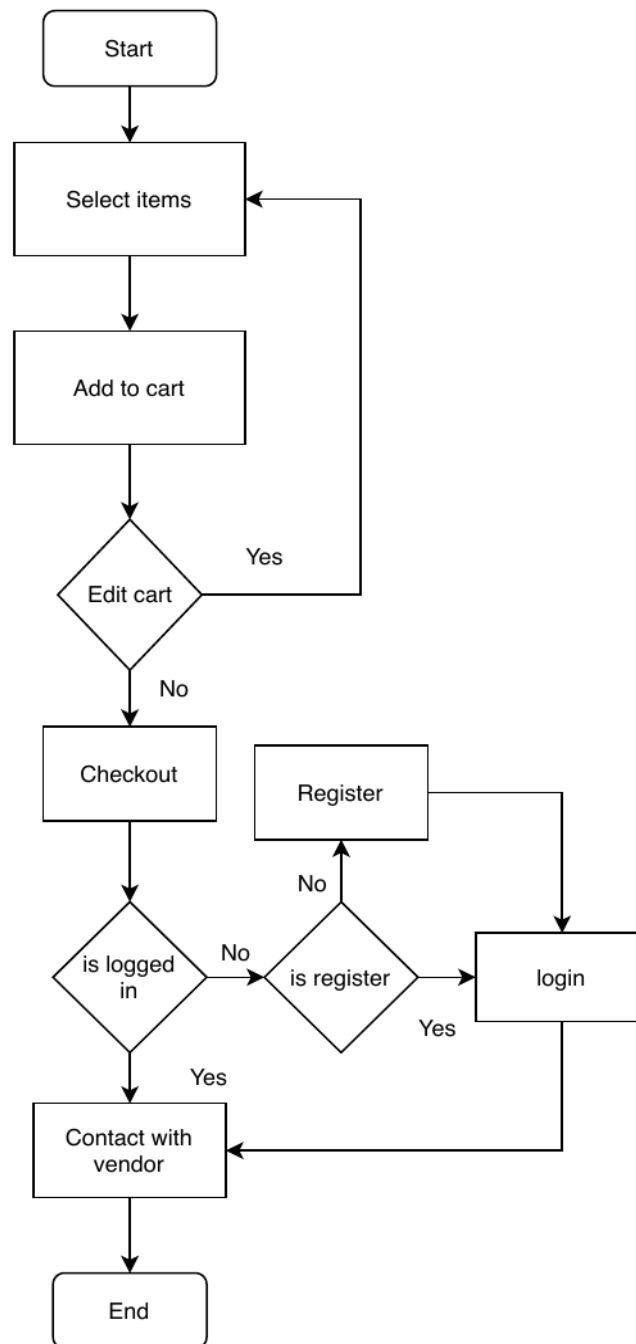


Figure 4. 3: Flow Chart

Figure 4.4 describes the workflow of the system, where visitors can add items, edit items and they need to login for the checkout process. If the visitors don't have their account, they need to register and then login with their respective account then they can make their payment and buy the items.

CHAPTER 5: IMPLEMENTATION

Implementation phase is one of the important phases of project development. In this phase, implement our conceptual design into the working program by using various tools. The successful implementation of the project is nearer steps towards the project completion. Project implementation was not an easy step to us as we encountered various issues related to the programming logic as challenges.

5.1 Front end Tools

- **Html:** Hyper Text Mark-up Language was chosen as preferable language because the tags are used to define the page layout and elements within the page. It was chosen because web server receives HTML documents from web server or local storage and render document into multimedia pages.
- **CSS:** Cascading Style Sheet was chosen because it is used for describing the presentation of a document. CSS enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in specification of presentation characteristics.
- **JavaScript:** JavaScript was chosen because it is a multi-paradigm language which supports event-driven, functional and imperative programming styles. It has an API for working with text, arrays, dates, regular expressions and basic manipulation of DOM. When a user requests .an HTML page with JavaScript in it, the script is sent to the browser to do something with it.
- **Bootstrap:** Bootstrap was chosen because it is a free open-source collection of tools for creating websites and web applications. and it also had forms, buttons, navigation and other interface components as well as optional JavaScript extension in all the photoshop finalized design for making responsive websites.

5.2 Back end Tools

- **MySQL:** MySQL database was used to add, remove and modify the data required for the web application. It was used to store the information about the features added

by the admin. MySQL was used to store the user information and the product order and stored made by the users.

- **Node js:** Node js was used in this project because it was highly extensible, easy to scale down or up in both directions and have better security mechanism.

5.3 Documentation Tools

- Draw.io was used for designing of
 - Data flow diagram
 - Use Case diagram
 - ER diagram design
 - Architecture design
- MS Word was used as a text editor for the documentation process.

5.4 Development Methodology

There are different development methodologies depending upon types of projects and the availability of its requirement. Since the requirements of Purano Bazar system are not completed at beginning, agile methodology has been chosen for the development of system. Agile methods are based upon rapid development cycles which end with incremental delivery of software pieces and constant interaction with the customer. Each new cycle of software development relies upon the results of the previous cycle, with the consideration of customer's feedback and requests as to functionality and a common vision of the project. Due to the constant cooperation with the customer and continuous delivery of the software pieces, the development project becomes very flexible and responsive to change.

Strengths of Agile Methods:

- High flexibility
- Higher customer satisfaction
- Constant interaction
- Continuous quality assurance

CHAPTER 6: TESTING

Software testing is a process of running with the intent of finding errors in software. Software testing assures the quality of software and represents the final review of other phases of software like specification, design, code generation etc.

6.1 Unit Testing

During the coding phase, each individual module was tested to check whether it works properly or not. Different errors found during unit testing were debugged. Some of the major test cases are listed below:

Test Case 1: Validation of Empty Form

Table 6. 1:Validation of Empty Form

.N	Test Inputs	Expected Output	Actual Output	Result
1.	Name: User Email: Password: Confirm Password:	The form shouldn't be left empty.	Warning message are shown for empty form.	Test Successful

Test Case 2: Validation of Email

Table 6. 2: Validation of email

S.N	Test Inputs	Expected Output	Actual Output	Result

1.	Username: user Email Address: user.com Password: admin	Email should be on standard format.	Warning message is shown for email.	Test Successful
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Test Case 3: Validation of password length

Table 6. 3: Validation of Password

S.N	Test Inputs	Expected Output	Actual Output	Result
1.	Name: User Email: himal@gmail.com Password: user	Password should be at least 8 characters.	Warning message should be shown.	Test Successful
2.	Name: admin Email: admin@gmail.com Password: admin	Password should be at least 8 characters.	Warning message should be shown.	Test Successful

6.2 Integrated Testing

The Integration testing part of a testing methodology is the testing of the different modules/components that have been successfully unit tested when integrated together to perform specific tasks and activities. The test is often done on both the interface between the components and the larger structure being constructed if its quality property can't be accessed from its components. After integrating the requirements, we tested it, it was fine and satisfactory.

6.3 System Testing

The system testing part of a testing methodology involves testing the entire system for errors and bugs. This test is carried out by interfacing the hardware and software components of the entire system and then testing it as a whole.

Test Case 4: Login add update delete of products

Table 6. 4: System Testing

S.N	Test case name	Test procedural	pre-condition	Excepted Result	Outcome
1	Login form test1	Create an account	Add to cart	Empty fields must generate an error	Success
2	Login form test2	Mail not sent	Product page	Email is received	Success only on live site
3	All product display test 1	Display all packages	All package page	All package should be displayed	Success
4	Database connection	Connect to database	Database connected	Connection Successful	Success
5	Add product	Add product to DB	Add product	Data should be added to DB	Success
6	Delete product	Delete from DB	Delete page	Data should be added to DB	Success
7	Update product	Update product in DB	Update page	Update description	Success

CHAPTER 7: CONCLUSION

7.1 Conclusion

In the current context, the increasing information Technology has built up the software development trend. To follow the trend internship provides a bridge for the industrial environment for the undergraduate to learn and experience the real world.

The internship has helped in adapting well to working under pressure. Working with multiple features in a single week-long sprint and handling immediate and urgent bugs have assisted in enhancing professionalism to meet deadlines. The technical tasks that were undertaken during the internship period have helped the intern in improving software development and debugging skills. It has helped in gaining knowledge about various technical tools and frameworks used in software development and the process that should be followed for proper development completion. Working as an intern in one of the popular IT companies in Nepal has boosted the confidence and has polished the professional as well as soft skills of the intern in the IT sector. As a whole, this report includes project and the internship experiences, findings, knowledge and technical skills.

7.2 Lessons Learnt

Through the internship from Bootwal, the lessons learnt were:

- Importance of time management and working with multiple features under pressure to meet deadlines.
- Immediate handling of urgent bugs and fixed them
- Understanding the differences between theoretical and practical knowledge.
- Working in a team with coordination and cooperation to make a quality decision.
- Working as a Developer can be considered as a potential career.

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APPENDIX

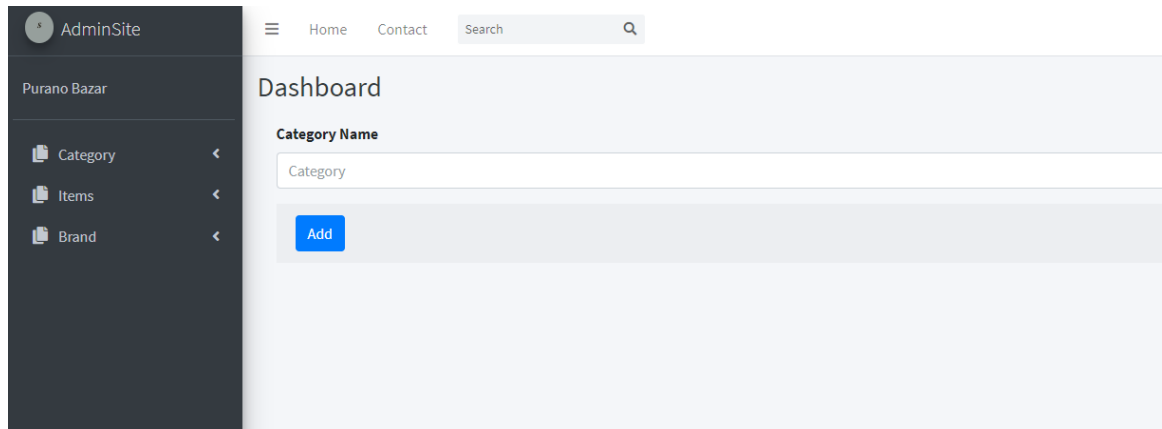


Figure 8: Add_category Screen

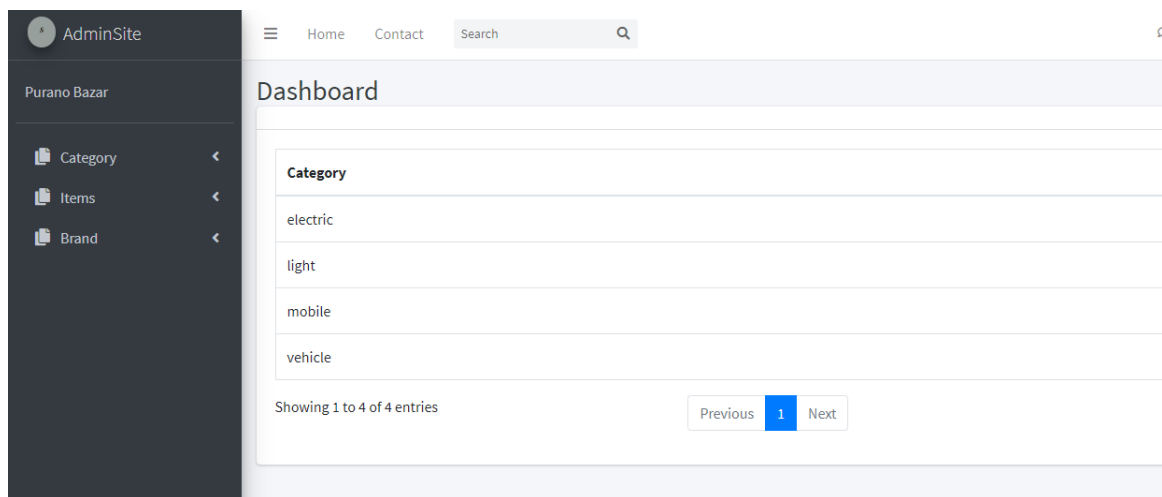


Figure 9: View_category Screen

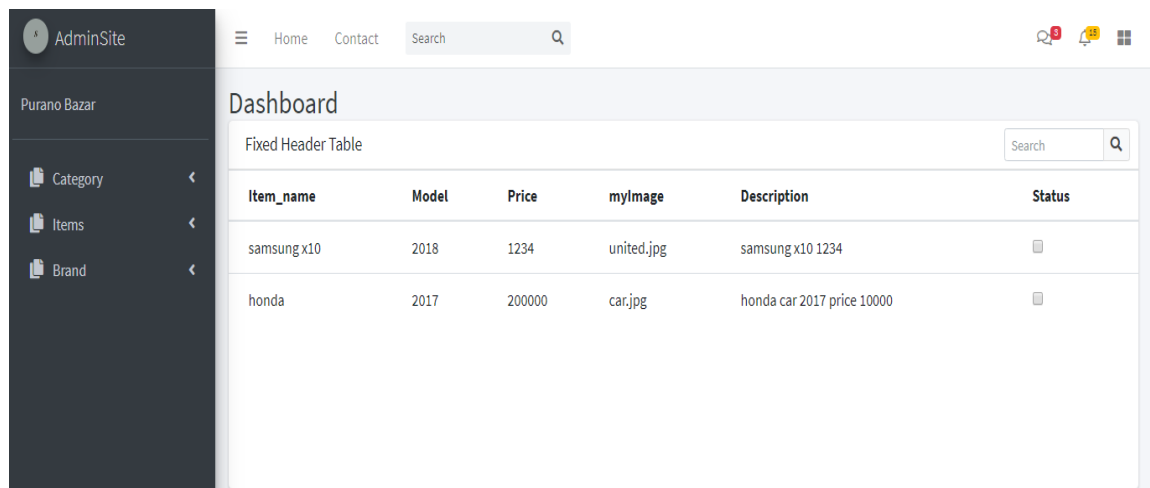


Figure 10: Views_item Screen

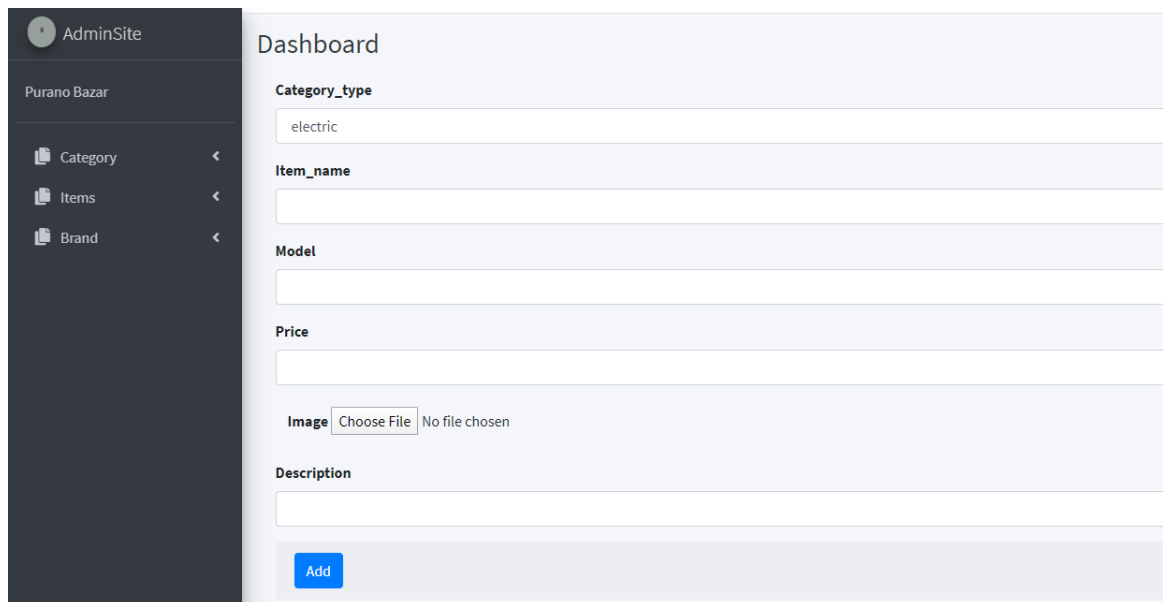


Figure 11: Add_items Screen

REGISTER

Name

Username

Email

Enter Email

Phone_no

Enter Email

Password

Create Password

Confirm Password

Confirm Password

REGISTER

Have An Account? [Login](#)

Figure 12: Registration

LOGIN

Email

Password

LOGIN

No Account? [Register](#)

Figure 13: Login

