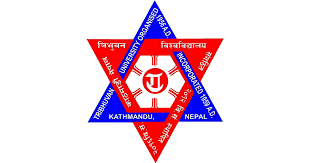
**Tribhuvan University**

**Institute of Engineering**

**Himalaya College of Engineering**



**A MINOR PROJECT PROPOSAL ON**

**“HOME DÉCOR MARKETPLACE WITH RECOMMENDATION SYSTEM”**

**[CT 654]**

**SUBMITTED TO:**

**DEPARTMENT OF ELECTRONICS AND COMPUTER**

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# ABSTRACT

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# LIST OF ABBREVIATIONS

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# INTRODUCTION

Online marketing is a good opportunity for business promotion. E-commerce (electronic commerce) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as business-to-business, business-to-consumer, consumer-to-consumer or consumer-to-business. E-commerce shops have become part of our daily lives. Technological advancement has made it possible for people to sit in the convenience of their homes and still shop online without going to a physical shop.

E-Commerce entails a company accessing the internet as well as IT, such as the electronic data interchange (EDI). It concerns an internet vendor's website, trading goods or services to the user directly from the platform. The gateway uses a wireless purchase cart to pay by credit card, debit card or Electronic fund transfer (EFT). Electronic communications and digital information processes in business transactions are used to create, modify and redefine value generation relations between organizations and individuals. With the increasing spread of ICTs, specifically the Internet, the global corporate world pushes rapidly into e-commerce (Business-to-Business). As the internet enables consumers to enter the global economy, they can compare prices across areas, find out how they vary by request, and become aware of substitution. The buyers obtain a distinct advantage. Thanks to market openness, consumers can conveniently compare e-commerce offerings from different websites. The rivals would immediately be one click away from the customer if the company is electronic. If consumers aren't comfortable with certain e-goods, content's pricing or services, they can adjust even more quickly than in traditional terms. They don't need a physical store from the point of view of the vendors.

The biggest advantage from the consumer viewpoint is that it improves the shopping experience dramatically. It saves a lot of time and provides convenient access from anywhere in the world. At any time, the customer is free to place the order. Increased sales and decreased running and sustaining costs through the internet are the key advantage of e-commerce from the point of view of sellers.

For e-commerce web sites, cyber security is the most common problem. Usually, financial institutions and banks are reluctant to play an active role in supporting the e-commerce market. Retailers need the participation of banks in expanding e-scope commerce and popularity and in mitigating theft and possible losses related to credit card fraud.

Home decor is the art of making your home look nice. It refers to the aesthetic components used to make a home more attractive and visually appealing. It is inclusive of physical items and objects (furniture, art, and accessories), placement of physical items and objects, and room colors and materials (flooring, wall coverings, window coverings, and ceilings). Home décor is important because it can affect everything from our self-perception to our confidence and productivity. It reflects your personality and lifestyle.

# PROBLEM STATEMENT

Physical stores are generally not open 24/7 since the workers need to rest. Customers can’t browse items and shop whenever they need. Also, the customers are unable to track their orders. In case a certain item is unavailable in the shop, the customer will have wasted his/her time when visiting the shop physically. For popular and busy shops, there may not be sufficient personnel to tend to all the customers. The customers may have difficulty in finding the right product if no one is present to guide them, and they may need to wait till someone is available. This causes an unpleasant experience when shopping online. For small businesses, the costs of maintaining a sales outlet is high and a lot of the budget is spent in setting up the store.

A lot of e-commerce platforms fail to sell through a high percentage of their merchandise. This is often due to poor user browsing experience. Customers can spend hours scrolling through hundreds, sometimes thousands of items of merchandise never finding an item they like. Shoppers need to be provided suggestions based on their likes and needs in order to create a better shopping environment that boosts sales and increases the time spent on a website.

There aren’t many good e-commerce sites that provide services for browsing, purchasing and customizing home decoration products in Nepal. People usually buy individual products without considering the aesthetic aspect of home decorations.

# OBJECTIVES

* To create an e-commerce web portal with a content management system, specifically for home decoration items.
* To include a recommendation system that will suggest home décor merchandise to the customer based on different factors.

# SCOPE AND APPLICATION

* E-commerce sites helps in improving marketing and sales by providing convenient and easy access to shop.
* Sales are promoted with the recommendations that the system provides to the users.
* The business can reach a wider customer base through the internet.
* Various offers, discounts for the products can be easily conveyed to the customers using the web portal.
* The customers can order custom merchandise through the web which helps them to purchase items exactly meeting their needs.

# LITERATURE REVIEW

# REQUIREMENT ANALYSIS

## FUNCTIONAL REQUIREMENTS

The functionalities that the system should provide in order to satisfy the needs and requirements of the users are as listed below:

1. Monitor

## NON-FUNTIONAL REQUIREMENTS

1. **Reliability**The system has to be reliable due to the importance of data and the damages that can be caused by incorrect or incomplete data.
2. **Performance**The system should be able to detect changes fast and produce responses as soon as possible.
3. **Portability**Application should be easily deployable in any vehicle.
4. **Accuracy**The system should accurately provide real time information taking into consideration various concurrency issues.
5. **Usability**The User interface should be simple and easily adaptable for the users to operate the system with ease.

# FEASIBILITY ANALYSIS

## TECHNICAL FEASIBILITY In

## OPERATIONAL FEASIBILITY

Operating

## ECONOMIC FEASIBILITY The

# SYSTEM DESIGN

**Fig (1) : Use case diagram**

**Fig (2) : DFD level 0**

**Fig (3) : DFD level 1 for**

# METHODOLOGY

## SOFTWARE DEVELOPMENT APPROACH

We plan on using the **Incremental Software Model** in the SDLC of this project.We will develop the whole project in some increments. In each successive increment, we will add few functionalities. After completion of each increments, testing will be performed to ensure quality of the system.



**Fig (4) : Representation of incremental model**

## PROJECT TOOLS

* **Python**  
  Python is our main programming language. Several python based libraries will be used to complete our project. Python is widely used general-purpose, high-level programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code that would be possible in languages such as CPython supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library.

# PROJECT REQUIREMENTS

## HARDWARE SPECIFICATIONS

* **Processor :** Intel Pentium IV or later
* **Memory :** 1 GB (minimum)

## SOFTWARE SPECIFICATIONS

* **Operating system :** Windows

# EXPECTED OUTCOME

The expected outcome of our project is

# SCHEDULING

**Fig(7) : Gantt Chart**

# CONCLUSION

People

# REFERENCES/BIBLIOGRAPHY