**Project Proposal**

**On**

**Hamro Kitab- Online Book Store**



**Tribhuvan University**

**Faculty of Humanities and Social Sciences**

**Bachelors in Computer Application**

**Submitted to**

**Department of Computer Application**

**National College of Computer Studies**

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**Year/part: - 2078 / Sixth Semester**

**University Registration Number**

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**Exam Roll Number: - \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: 2078/10/29**

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# Introduction

Hamro Kitab- Online Book Store is a web-based application which assists people, students to provide a required book. The system provides the books in digital form. This application is very user friendly and can be used with less technical knowledge. To get the book the reader can just search the required book and can download the pdf of the book easily. Through a web browser the customers can search for a book by its title. The user can also give feedback to a book by giving ratings. [1]

# Problem Statement

Almost every activity in the world today is controlled by computer driven software program. [2] Travelling through different store, searching for the required books can be hard and can be time consuming, this system helps to search the book in on time. Organizing the books in the book store or the book store or the libraries can take time. This system organizes books itself according to different authors, titles etc.

# Objectives

The main objectives of Hamro Kitab-Online Book Store

* To create an online book store that allows users to search a book based on title, author and subject.
* To digitalize the book

# Scope

* Manage all the details regarding features of the books such company, book dimension, book cost.
* Manage all the account details such as user name, phone numbers, address, email addresses of the entire customer from one central location.
* View all the details of all the interactions made with the customer. [3]

# Methodology

## Requirement Identification

### Study of Existing System

The existing system consists of different books categorized according to the book title, author etc. This system helps to buy the books digitally rather than going to the book store or libraries and getting the book. System provides the sign-up option to create an account to buy the book and sign in option to login to the user account. Books can be added to cart to purchase the book later or selecting the multiple books to buy in same time.

### Literature Review

For this project, different websites were researched and reviewed. Throughout the research, hardly few websites related to online book store were found. Due to this, the users can’t get the quality information. Online Book Store in on itself, is an integral part of complex inventory/accounting/finance application thus this application as standalone working product is not easier to find.

If some websites are available for users, websites found were looking for many features regarding the Online Book Store. Especially, the users are not convinced with the quality facilities given to them.

### Requirements Analysis

For this system, requirements are basically identified through functional and non-functional requirements.

#### Functional Requirement

* The system should allow user to register.
* The system should allow user to buy books.
* The system should search the book required to users.

#### Non- Functional Requirements

**Availability**

The system will be available for 24 hours service as users can apply from anywhere and at any time.

##### Performance

The performance of the system will be fast and accurate as it will provide fast response to the user’s actions. The system will handle expected and unexpected errors and also large amount of data.

##### Reliability

The system will be reliable as it will perform function and run without a failure and it has to be reliable due to importance of data and damages that can be caused by incorrect or incomplete data.

## Feasibility Study

A feasibility study is an analysis that takes all of a project's relevant factors into account including economic, technical, legal, and scheduling considerations to ascertain the likelihood of completing the project successfully. Project managers use feasibility studies to discern the pros and cons of undertaking a project before they invest a lot of time and money into it. [4]

### Technical Feasibility

In order to design this system, it uses off-self and existing technologies, software and hardware so there is no technological hurdle to build this system.

### Operational Feasibility

The system does not require extra software and hardware i.e., it uses open-source technologies. So, there is no recurring cost than just the internet connection.

### Economic Feasibility

This system uses simple technologies to design. So, it is user friendly.

## High Level Design of system

### Methodology of Proposed System

It is planned to implement waterfall methodology while building the application. This project has specific documentation, ample time, fixed requirements, well-understood technology so in order to build this system, water fall methodology can be used.

Requirement Analysis

System Design

Maintenance

Testing

Deployment

Implementation

Figure : Water Fall Method

The Waterfall Model was the first Process Model to be introduced. It is also referred to as a linear-sequential life cycle model. It is simple to understand and use. In a waterfall model, each phase must be completed before the next phase can begin and there is no overlapping in the phases. [5]

### System Flowchart

Menu

Check Out

login

Register

Add to Cart

List

Search

Has   
User?

Figure : Flowchart of Hamro Kitab-Online Book Store

### Use Case Diagram

Admin

User

Figure : Use Case Diagram of Hamro Kitab-Online Book Store

### Activity Diagram

Menu

Check Out

Add to Cart

Rate

Register

Login

Add to Cart

Detail

Figure : Activity Diagram of Hamro Kitab-Online Book Store

### Description of Algorithm

Binary Search is a searching algorithm used in a sorted array by repeatedly dividing the search interval in half. The idea of binary search is to use the information that the array is sorted and reduce the time complexity to O(Log n). [6]The basic steps to perform Binary Search:

* Begin with an interval covering the whole array.
* If the value of the search key is less than the item in the middle of the interval, narrow the interval to the lower half.
* Otherwise, narrow it to the upper half.
* Repeatedly check until the value is found or the interval is empty.

## Gantt Chart

Figure : Gantt Chart of Hamro Kitab-Online Book Store

# Expected Outcome

This system should browse different books according to different book title, author price etc. This system needs to provide good user-friendly environment. This system provides users required books so they can buy the books and read instantly. It provides searching features where it helps to find user required book faster. It has payment method where users can buy the interested book.

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