

Reader`s Choice: A Web Portal for Book Sellers and Readers in LPU

Vikrant Prasad, Abhay Kumar Singh, Dadhyank, Pulkit, Rahul Saha
Lovely Professional University, Punjab, India

Abstract: Web portal is a always a demand for ease of access of the utilities like online shopping. Mobile devices have enhanced the process more for better features. In this work, we have presented to provide a framework for web module for a shop vendor for book readers.

Keywords: Web, Framework, Readers, Books

INTRODUCTION

In today`s era everyone strives for anything to be online. It really helps us to put in less effort and get a desired output with quick span of time. If this criterion is being implemented in any university then it will help the students to avail quite different knowledge in this sector and will get their work done without wasting their any physical potential. The popularity of online system is growing day by day and the manual system is getting diminished. Online system is less error prone than manual system hence it is establishing its standards in today`s society. Students can check for the availability of required online and book the same. The most desirable property of this project is the students can avail for the stuffs instantly.

This “online” thing has given a huge perspective to the developers for the design parameters of a web portal developments [1,2]. Various parameters are calculated keeping in mind the usability issues of the application. Such applications, developed with a great cost can be easily be a successful story or can be a devastating business loss.

Readers` Choice is therefore an attempt to provide such an interface through which students can search for books from a book store and order it is necessary without wandering here and there.

PRESENT WORK

The present work deals with solving the problems faced by students of our university in fetching the books and other study material required for them during their session. If we talk of today`s scenario then we find that students have to face huge problems in getting their study material form book stalls. Sometimes the books are not at all available in the stalls and they even fail to get it issued from the library due to unavailability of the books.

Our work comprises of many different activities such as:-

- Searching for the availability of books
- Details of the searched books
- Choose for old or new books
- Details of the individual looking for the book
- OTP for the confirmation
- Summary

The highlights of our website are:

1. It is easily usable by the students specifically for the freshers.
2. Students need not to search for the available book stalls inside the campus.
3. They can easily give the requisition of the books and can directly contact with the book seller within the campus in a fixed time.
4. OTP will be generated to confirm the book orders so, that book sellers can track the order makers.

This web portal will be beneficial for selling and purchasing of books in Lovely Professional University. This system increases the interaction between students on education perspectives which develops social coexistence as well as employees and book-shopkeepers regarding different issues of books. They can also resale the book depending upon the book status. Therefore, it objectifies to provide easy access to both students and other staffs to have an access of the any book required for their job done. More specifically, this system is designed to allow an admin to manage the system to work properly also by posting important messages regarding availability and access of the books.

- To help the students and other staffs in our university.
- To make an easy process of book materials booking.
- To track the book availability

REQUIREMENT ANALYSIS

1. Technical requirement:

Purpose: To help students and other staffs here in LPU regarding the purchasing of each and every study material. The aspects of our technical requirements are:

- Determining our budget
- Scheduling
- Requirements of Gantt Chart
- Initialization of a communicative plan
- Risk-management

Project Management Phases



2. Economical Requirements:

The Economic requirements here deal with the Economic Appraisal [3]. This defines a way of obtaining a fair amount from public expenditure and acquisition utilization. It also ensures for achieving value for money and checks for accountability concerns. It contains a series of processes which are meant for evaluating the alternative utilization of resources, emphasized on requirements, goals and objective, process options, cost effectiveness, benefits and risks, resource funding and obviously affordability by the stakeholders.

- The scope of Economic requirements is very wide.
- Covers all costs and benefits impacting LPU.

3. Environmental Requirements:

- Our project work is not creating any disastrous effect on environment.
- So we can say that our project is eco-friendly.

FEASIBILITY STUDY

Technical Study:

- Yes it is technically feasible to implement this project as here in LPU everyone is equipped with 24*7 internet connections which is must for making use of our project.
- Here all the students are equipped with a laptop or pc to make use of our project.
- Our mode of operation will provide adequate throughput and response time.
- The present working mode offers some influential and beneficial controls which are effective to protect against frauds and ensures accuracy and security of data and information of transmission.
- The current work practises and procedures are adequate to support the new system.
- It will reduce the operation time considerably.

Economical:

- Yes it is economically feasible to implement this project as we don't have to invest any amount of money, neither the owner nor the customers.
- We don't have to put for any budget scheme for our project.
- The benefits of our project outweigh cost.
- Here in our project we observe eliminated cost of hardware.

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Environmental:

- We are looking forward to eliminate any paper related work in our project.
- We are looking forward to sustain our project output to the elements of internet.
- So we are on eco-friendly stand in respect of our project.

Need:

This work is made based on the information gathered through conducting interviews and survey, whereby it highlights the real life situation of the organization.

By showing the current situation of the organization thus identify the problems that are present and the formulation of appropriate solutions.

Usability:

The application will be developed in way that it would be really very easy to handle the information on the interface and will be presented in concise and clear way, a basic English language will be used on all the action buttons on the application so as to remove any ambiguity. All the important items such home button link and login and logout and place order button will be placed in appropriate areas of the application, the user will have appropriate choices on doing certain tasks i.e. choose books, place order, cancel the order etc that is consistent throughout the website. As well as having informative error messages dialog box.

Security:

The framework will have a security component at login whereby a client must have a secret phrase and a username that is legitimate to enter the framework, the benefits to the framework will be allotted by the sort of client (for example ordinary client, executive), whereby typical client will have their benefits which will be restricted to specific parts of the framework, the director will have full benefits and that will be the main individual who can allocate benefits for different clients of the framework.

SYSTEM DESIGN

System design is important in any development for understanding and minimizing the risk of actual development or implementation. It characterizes the processes, the segregation modules of functions and operations, interfaces of uses, and information flow from one module to another. It helps for insights of upcoming processes to flow otherwise the coordination and synchronization with understanding can lead to a loss of manpower and reputation.

Context data flow diagram

The figure below shows a context Data Flow Diagram that is drawn for store in unimall shop of book “Online Book Booking System”. It contains the basic modules for dealing the operations and how the basic stakeholders are connected with Readers’ Choice.

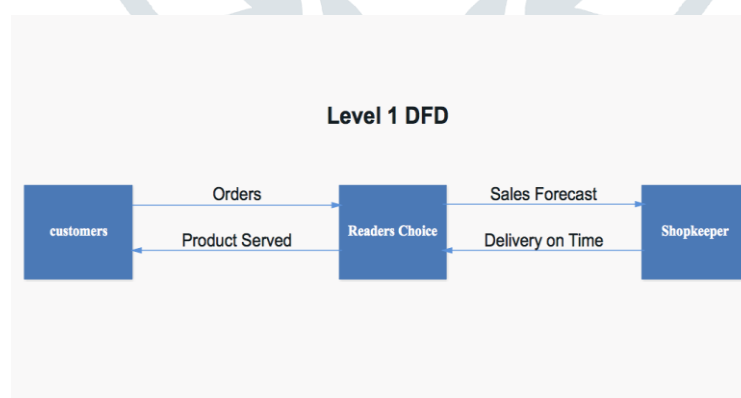


Fig:1 Context Diagram (Level-1) for Online Discussion Forum

Data flow diagram (level 2)

The level 2 data flow diagram for Readers’ Choice have the following components:

- User registration
- Order posting

- OTP generation
- Book details management
- Notification process by admin
- Order process and management by admin

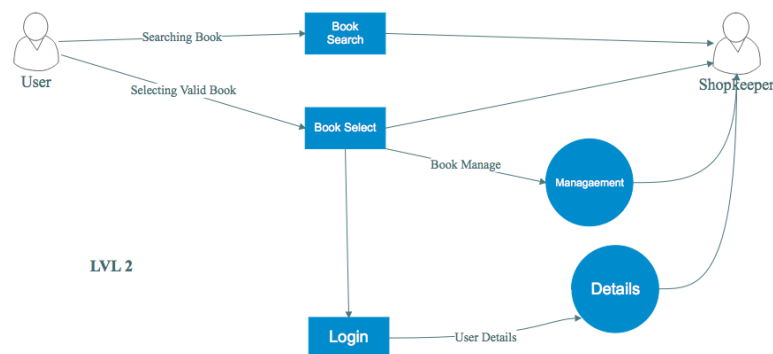


Fig: 2 Level 2 Data Flow Diagram

Entity Relationship Diagram

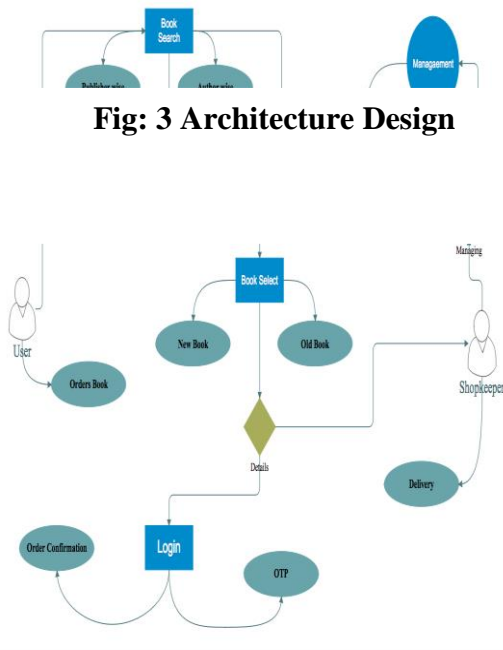
Each user in Reader Choice Forums is an entity. One of the entity set is users, which represents the set of all users in the Reader Choice Forums. Another entity set is posts, which represents the set of all posts, comment representing set of all comments within Reader Choice Forums.

Attributes are defined as properties hold by each entity.

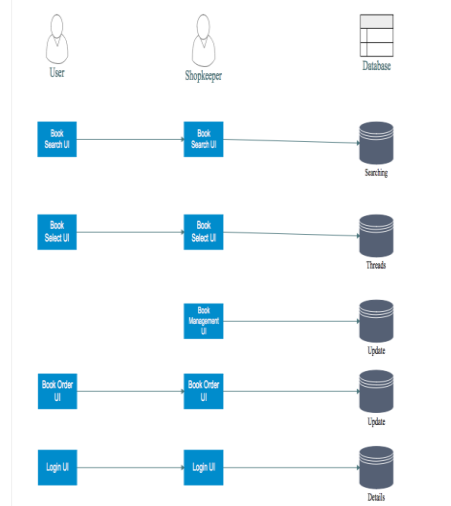
The diagram illustrates following things:

- User can search for the books in three ways:-
 - Via Publisher name of the book.
 - Via book name.
 - Via Author name of the book.
- User can also select the as per their need in two ways:-
 - New book.
 - Old book.
- User can check for the details of the book before confirming the order.
- Shopkeeper of the book is only allowed to manage the stocks and details of the book.
- Shopkeeper has to update the new the books in stock.
- Shopkeeper is only responsible for the delivery of the book.
- Before confirming any order of the book the user needs to login this site.
- After filling the required information in the site the user will receive an OTP in his/her specified mobile number.
- This is mandatory field before placing the order of any book.

The ERD diagram shows, the usage of database with entities having a primary key. They are underlined. These databases are linked with each other in primary key or foreign key as applicable while implementing.

Fig: 3 Architecture Design**RESULTS****Fig: 4 Entity Relationship Diagram for Reader choices**

The data

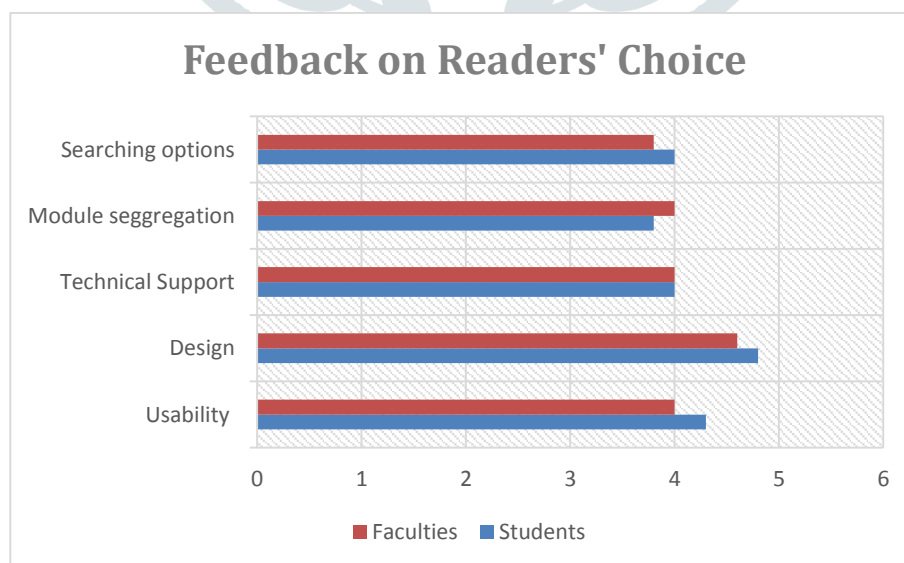


We have used the Readers' Choice among a sample of students sample description is given as below.

Table-1: Data sample

No. of users	550
Age range	18 to 55 (Students and Faculties)
Location	Lovely Professional University, Punjab

The results of the usability parameters are given in Figure-5. It shows the which factor is better and where Readers' Choice can do better or further improvements.



CONCLUSION

The above analysis shows that Readers' Choice is usable for the students and faculties; however, there is a scope of improvement in modularization and searching options. As a design perspective the web portal is efficient and the rest parameters will be taken care for improvements.

REFERENCES

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- [4] <https://www.awwwards.com/developing-an-effective-strategy-for-your-web-project.html>

