



# WALKING SHELF

**Devrajsinh Borasia**

*Information Technology, Parul Institute of Engineering & Technology, Vadodara, Gujarat, India*

**Mitesh Gadhiya**

*Information Technology, Parul Institute of Engineering & Technology, Vadodara, Gujarat, India*

**Prof. Tejal K. Patel**

*Assistant Professor, Information Technology, Parul Institute of Engineering & Technology,  
Vadodara, Gujarat, India*

**Abstract :-** The purpose of this application is to give users and owners of rental products a platform for efficient and productive communication. The exploring industrial services that might tap into and improve their customer services has become necessary as online apps gain popularity and usage. These days, the customer can profit from online rental systems that are curated for items like furniture, cars, houses, etc. A rental service is one where clients show up to seek the rental of a particular item. It is more practical than paying for the unit's ownership and upkeep. We are introducing an Application in this article- WALKING SHELF on which people can give and take the book on rent. Our primary target market is anyone who chooses to rent items rather than buy them; they may be locals, non-locals, or those who are technologically savvy. With this website, you may rent out items for periods of time ranging from an hour to a week or a month.

## I. INTRODUCTION

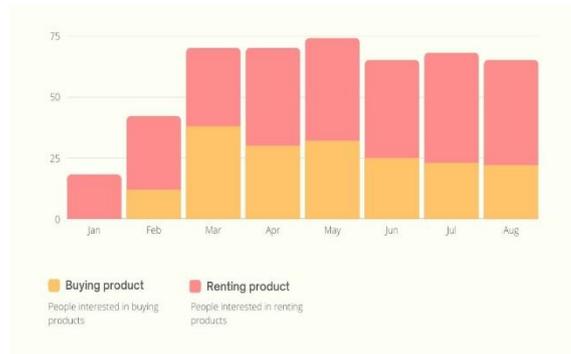
Many people move from city to city these days for employment or educational reasons. This has led to the development of a complicated

and multi-organizational management system that encompasses the management of food, automobiles, books, furniture, and other accessories. The current situation portrays the system for renting or purchasing as very taxing effort. With the rapid advancement of Internet and e-commerce technologies, online retailers, in particular online shopping portals, are benefiting greatly from the services and advantages offered by the Internet platform. Online services are partnering with clients and other associations, and online shopping has successfully extended its company. This study discovered the wants and demands of both present and potential users of transitory product virtual marketplaces. This study develops four-dimensional measurement models that are suitable for gauging customer satisfaction with the security of online rentals information platforms. In order to validate the measurement model, this study also does factor and multiple regression analysis.

In today's competitive digital economy, there are numerous applications, therefore the question of whether to buy or rent has been up for debate for a while. There are numerous rental platforms available through the already operating services, including MagicBricks, Cardekho.com, RentMojo, OLx, Furlenco, and an unending number of others. When it comes to renting out only real estate, vehicles, or estates, MagicBricks, ZoomCar, or OLx are domain-specific programmes. On the other hand, OLx focuses on buying and selling everyday items. Therefore, rather than focusing on a single genre of books, we have introduced

a new dimension and created the application WALKING SHELF.

We have observed that nowadays people are more interested in renting the product for the required time rather than buying it. The ratio of buying & renting the product is shown below in the graph.



## II. PROPOSED SYSTEM

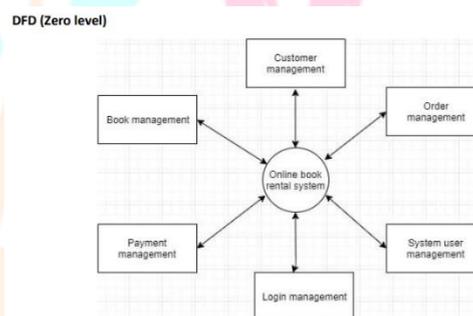
Today's fast-paced, technologically sophisticated environment is giving rise to an increasing number of workable, commonplace alternatives. So, in order to meet the concerns of readers and students who have a stronger connection to literature, we came up with a solution. A book owner who reads their books and realizes they are useless. He can therefore choose not to use it or periodically throw it out. However, those who wish to read such a book must purchase it from a store and pay a premium price for it. Our platform will help both parties resolve their difficulties. The book's owner will profit since he will receive some sort of rent payment; meanwhile, whomever wants to read it can do so for much less money, provided they return it in accordance with the stated norms and regulations. As we can see, individuals today are forced to buy the things they want because they cannot rent them, particularly books and other literary works. For this reason, we're planning to develop a platform where users can lend and receive books.

Even if a book is checked out from the library, it must still be located there and returned within the specified time frame. Since not all books are available at all libraries, this process ultimately takes a lot of time. Many people find it difficult to read in the e-book format because they get headaches from gazing at the screen. The majority of people prefer hard copies because of this. A chart shown below defines the user journey step by step:-

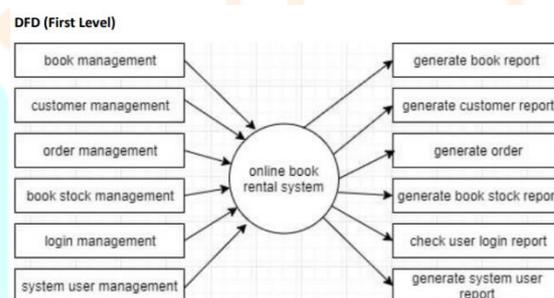


## III. SOFTWARE INTERFACES

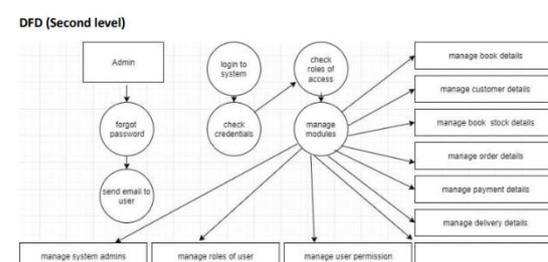
(THROUGH DIAGRAMS)



This is a level 0 data flow diagram of Walking Shelf's online book rental system, which shows different backend managed journeys.



This is level 1 data flow diagram of Walking Shelf's online book rental system, which shows that how system identifies & manages user activities.



This is level 2 data flow diagram of Walking Shelf's online book rental system, which shows all the user activities & admin side's response toward user. This diagram shows complete flow of data in system.

#### IV. Results & Analysis

The application's testing should not provide any technological blunder Black Box testing as well as White Box testing is used to check for faults. In testing we have performed all the user tasks step by step which includes (1) User registration journey, (2) User log in, (3) Edit/update customer details (Address, contact details of user, user's books interests), (3) Search of any specific book, (4) Selecting time period of renting the book, (5) Payment journey, (6) order cancelation journey, (7) Refund process journey, (8) Uploading a book for rent, (9) Delivery journey & (10) Exploratory testing.

Testing is done on the basis of test cases & testing results are shown below in the table:-

Sr. No	Test Case	Feature	Description	Steps To Execute	Test Data/ Input	Expected Result
1	TC-001	Sign in/sign up	Verify that user is able to sign in or sign up in the website	1.Enter the user name & password	N/A	UI should be perfect. User is able to sign in/sign up.
2	TC-002	Search box	Verify that search box is working properly to find the desired book.	1.Click on the search box. 2.Enter the book name	N/A	User gets the searched book.
3	TC-003	Promoted books on home page	Verify that user is able to view the promoted books.	Explore the home page.	N/A	User is able to view & access the promoted books.
4	TC-004	Order book for rent	Verify that user is able to order the book on rent for required time.	1.Open the book profile. 2.Click on order now button 3.set the time for rent	N/A	User is able to order the book rent for the required time period.
5	TC-005	Post the book for rent	Verify that user is able to post the book on rent on the website.	1.Press add button 2.Enter the book information	Book details	User should be able to add/post the book on rent on the website.
6	TC-006	Delivery tracking	Verify that user is able to track the book delivery.	1.Click on Track Delivery button.	Provided Delivery tracking id	User should be able to track the delivery .
7	TC-007	Cancel the order	Verify that user is able to cancel the order	1.Click on Cancel the Order. 2.Write reason for cancelling order.	Reason for cancelling order	User should be able to cancel the order.

#### V. CONCLUSION

This paper leads us to the following conclusion:- Renting can be made simple with a web-based rental management information system. The procurement of paper for product charging is efficient. The operational manager and owner may control and monitor the expenditures and hence prevent over-budgeting because all the books' data is recorded centrally. The procedure for businesses and users to undertake preprocessing, identify buying trends, maintain the integrity of the data, and exploit this information for personal gain will be made easier by the usage of computerised data storage. We want to encourage renting daily-use BOOKS through this website rather than buying and throwing them away. Our website is free to use, open source, and user-friendly. By using fewer things more frequently, it has a favourable effect on the environment. Hiring product offers a quick and easy way to get crucial data to gauge this service. By reviewing the aforementioned research studies, we can conclude that there are platforms in India that rent out items like groceries, furniture, and books, but they all only operate in a specific geographic area. We are creating a platform to make books available for rent across the nation. Our main selling point here is that we will also provide books that are unavailable elsewhere for rent. The solution will be our platform or our website if the book is rentable on the other platforms but they either do not offer delivery or only offer service in certain locations.

#### VI. REFERENCES

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