On-line Bidding for Transportation of Home Appliances/Furniture's

Prof. Karishma Badgujar[1], Sachin Kamthe[2], Omkar Kulkarni[3], Omkar Patil[4] and Pallavi Sakhare[5]

[1]Information Technology, ABMSP's Anantrao Pawar College of Engineering & Reserch, Savitaribai Phule Pune University, Pune, Maharashtra, India
[1]karishmabadgujar13@gmail.com
[2]Information Technology, ABMSP's Anantrao Pawar College of Engineering & Reserch, Savitaribai Phule Pune University, Pune, Maharashtra, India
[2]sachinkamthe1@gmail.com
[3]Information Technology, ABMSP's Anantrao Pawar College of Engineering & Reserch, Savitaribai Phule Pune University, Pune, Maharashtra, India
[3]omkarkulkarni929@gmail.com
[4]Information Technology, ABMSP's Anantrao Pawar College of Engineering & Reserch, Savitaribai Phule Pune University, Pune, Maharashtra, India
[4]omkarpatil9987@gmail.com
[5]Information Technology, ABMSP's Anantrao Pawar College of Engineering & Reserch, Savitaribai Phule Pune University, Pune, Maharashtra, India
[5]sakharepallavi44@gmail.com

ABSTRACT

As per human point of view transportation plays vital role in daily life. There are number of transportation applications available for ex. Packer-Mover, GATI, DHL etc. Available technologies have made shifting easy but still it involves some manual processes like meeting merchant, checking availability and many more. It is difficult to select the merchant as per the customer - convenience. Traditional system requires higher time and charges for shifting goods and it is time consuming process. Proposed system overcomes drawbacks of traditional system. It is platform for both merchant and customer where the customer can stores details of an object and that will be placed into the on-line bidding. In on-line bidding registered merchants can take part. They have to enter their affordable price as per shipment. Customer will select price which is convenient to him. Proposed automated system provides better transportation process than traditional system which is fast and reliable to customer as well merchant.

Keywords: Optimal Bidding, Transportation, Traveling Salesman Algorithm.

1. INTRODUCTION

Today's day to day life transportation and shipping plays important role as per the customer point of view. The traditional system involves some kind of manual processes like meeting the merchant, checking the availability, cost. It is very hard to select the merchant as per the customer convenience; cost and date of that shipment is depending on merchant site. Our proposed system gives a platform for both merchant and customer where the customer stores details of an object and that will be placed into the online bidding. In online bidding multiple merchants take part and who gives the lowest bid for transportation of object that will be finalize by system.

On-line Auction/Bidding:

Bidding is used to determine the cost or value of something. Bidding can be performed by a "customer" or "merchant" of a product or service based on the context of the situation. In the

context of auctions, stock exchange, or real estate the price offer a business or individual is willing to pay is called a bid. On-line bidding help to reduce cost of product, save times of customer as well as merchant.

Types of Auctions/Bidding:

- Absolute Auction (or auction without reserve). The property is sold to the highest bidder, regardless of the price.
- Minimum Bid Auction (The auctioneer will accept bids at or above a published minimum price).
- Reserve Auction (an auction subject to Confirmation).

Necessity of Bidding:

We have taken survey on how much amount is required to transport good on different shifting application.

Table 1 shows information of goods. Customer places this information on shifting applications. Table 2 shows charges required on different sites to move same goods. There are three application but their shifting amount is different even good is same. To know which application is affordable customer has to visit all sites. It is time consuming process. Proposed system provides bidding application where customer can place order. System notify to all registered merchant about order details. Each merchants place their shifting price. Merchant has to place minimum price. Whose price is minimum order goes to that merchant.

Table 1: Information about Goods

Name of Object	Table
Material	Wooden
Length	6ft
Width	4ft
Height	4ft
Weight	50kg
Source	Swargate
Destination	Katraj

Transportation sites:

These are different charges of different shifting websites.

Table 2: Transportation price on different

Pikkol.com	1450rs
GATI	780rs
DHL	1500

2. LITERATURE REVIEW

Shifting goods in rural area is very costly or some time unaffordable. It is already implemented in foreign countries. Proposed system is for urban area only. **Ammar Gharaibeh [1]**, proposed how bidding helps to reduce expenditure. This paper outlined the need and motivation for switching to a resource auctioning method as an intelligent approach for IoT data delivery through a publish subscribe pattern. This paper presented an optimization problem that requires the prior knowledge of the bids to maximize the total profit while guaranteeing the capacity constraints of the serving cloud zones, and proved that the problem is NP-complete.

Sadeghi-Mobarakeh [2], in this paper Sadeghi-Mobarakeh address the problem of optimal bidding in performance-based regulation markets for a large price-maker regulation resource. He develops a new mathematical foundation to optimize the capacity and mileage bids. Their design is not limited to a particular resource type or technology. Instead, try to understand the key concepts in this new market paradigm.

Madhumathi R1, RadhaKrishnan R2, Suresh Kumar S4 ,Vidhya Mandhir Institute of Technology, Perundurai, INDIA [3] Author's purpose of this paper to provide benefit to former by using bidding strategy. This web application not only provides the highest price for the farmers but also it possess many additional features which serve the application as the most easy, reliable and user friendly application which would in-turn help the users who are new to this computer era.

ACM Transactions on networking [4] Author presents the first online combinatorial auction for the VM market in cloud computing. It advances the state-of-the-art of cloud auction design in that all previous VM auction mechanisms are either one-round only or simplify VMs into type-oblivious good. In this paper author states that three components, first is design an intuition-driven primal-dual algorithm for translating the online social welfare optimization problem into a series of one-round optimizations, Second, we randomized auction sub framework that can translate a cooperative approximation algorithm to the one-round

optimization into an auction, Third, we apply a greedy primal-dual algorithm that approximates the one-round social welfare optimization.

Table 3: Literature Review Table

Sr. No.	Name	Publication	Methods & Algorithms	Description
1	On-line Auction of Cloud Resources In Support of the Internet of Things	2017	Np-complete, Online Algorithms, Resource Auction Method.	States need and motivation for switching to a resource auctioning method as an intelligent approach for IoT data delivery through a publish subscribe pattern.
2	Optimal Bidding in Performance-Based Regulation Markets: An MPEC Analysis With System Dynamics	March , 2017	MPEC, Non-linear Programming Formulation, Mixed-Integer Linear Program Formulation	Author has developed new mathematical foundation to optimize the capacity and mileage bids.
3	Bidding Application in Amazon Web Services for the Sales of Agricultural Products	2016	Online bidding model	Provide benefit to former by using bidding strategy.
4	An Online Auction Framework for Dynamic Resource Provisioning in Cloud Computing	AUGUST , 2016	Online Algorithm, Fractional VCG Auction	It advances the State of the art of cloud auction design

3. PROPOSED SYSTEM

Proposed system is only for rural area or specific city only(ex. Pune city). In a system we are using minimum Bid Auction. It will help to reduce shifting expenditure and also save customer time. With the help of proposed system customer can transport the goods in less expenditure. Customer need not to follow process like check availability, meeting merchant etc. To use this application customer has to visit application and has to fill details about order. Application will send details to server and control system will notify to merchant. On merchant site he can view details about customer order and can place charges of shifting likewise other merchants will place their shifting amount for same order. Minimum price among them will be selected by system and system will notify to customer as well as merchant. Using this application customer can place order with his convenient time and cost.

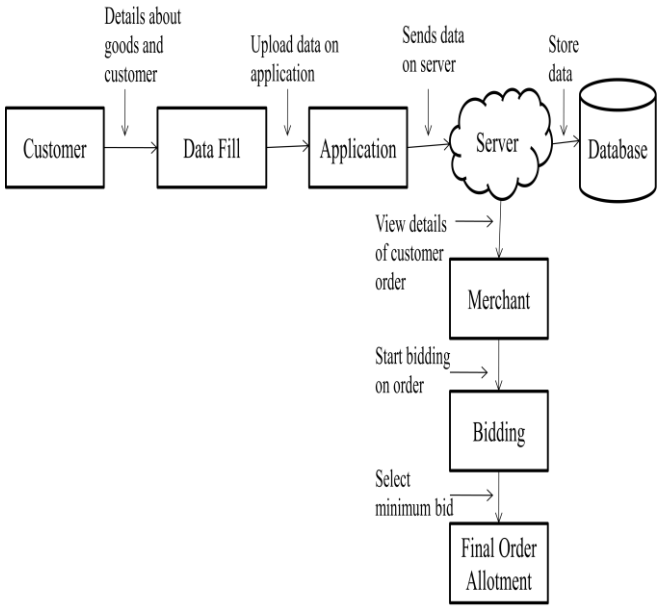

Figure-1: System Architecture

Advantages:

- Saves valuable customer budget
- Saves Time
- Reduce human efforts

Limitation:

- System does not ship in foreign countries.
- There is weight and size limit for shipping.

Table 4: Comparison Parameter Table

Parameters	Traditional System	Proposed System
Visit websites or meeting merchants	✓	X
Costly	✓	X
Assurance of delivery	X	✓
Reliable	X	✓

4. CONCLUSION

We conclude that proposed automated system provide better transportation process than traditional system which is

fast and reliable to customer as well as merchant. Traditional system is time consuming and it require more expenditure to shift single object. Proposed system overcomes these problems by providing bidding platform.

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