

Smart Postal Cost Calculator

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Abstract— The problem revolving around the department of post, which is, “The existing cost calculation is based on some random sample assessments/studies done very long back. There is a significant change in the product portfolio of the Department since then. As different products are handled by the same operator/office, there is no cost segregation for each service/product. The motivation of paper is to define a system to find the cost of the product/service where the stakeholders are from different offices spread across the length and breadth of the country.”

Key words: Calculator

I. INTRODUCTION

Communication is the lifeline of people in all places and at all times. It is an important medium for their very survival. Communication helps to maintain day-to-day life transactions. In middle Ages, the king was used to ask officers to understand what was happening to their respective area in kingdom. Also kings had used the number of messenger for goods and letter exchange. The Department of post is also one of the financial sectors in market. The problem in Department of post is that it has lot of man-power but it lacks in proper decision making and usage in manpower of postal department. The current view of postal department is that the rate of mail and post card usage has been come down by 15% as compared to the rate in 1997. The major aspect of this decrease is due to modernization and revolution in communication field. Peoples, nowadays, prefers messaging through cellular networks or E-mails.

Even though, the current postal department is lagging far behind in technology, it is vastly spread organization in India which connects most of rural region. Most of rural people still rely on postal department. As far as postal products are concerned the courier service is still an hotspot in department of post. The problem that arises when going through postal services is that there are many organizations which have offered various attributes at different values. For example, when an individual wants to send postal products person could not go through each and every organization and compare the cost of sending the product. Some of them are private some are Indian post but each of them may have same structure or not. This produces an effective role on out coming cost. Also intra-official cost also varies from organization to organization. The result of this is that many a times the individual has spent extra money on postal products.

The research defines the problem by putting all information related to all organization present, for same postal into the hand of each and every person through a web application. This makes the decision making of sender easier by providing option to sender from which he might choose best option for himself. This result of research will search for all available routes with reasonable costs.

A. Problem statement

The problems are that people have to spend extra money for their products to be sent through any postal service due to lack of information. The problem is not only up to this point as there are many applications to give calculated cost but their estimation is not on rating basis and they only shows the tie up companies. Also they do not provide system to help customer or guide them rather only perform comparisons based on cost.

II. RELATED RESEARCH

The structural faults of current system were found out by meeting some official of postal companies and they stated that the main problem is the current layered transition system. It was observed Some companies has benefit in different modes of transport like rail road mail system as they have their own transport over that line while others have to pay extra for same. This proposed a high cost difference in those companies. So, this shows that some companies has provided benefit in one mode as they have less office to office work than others while others have another benefits. Using following papers, the problems are analysed and discussed:

1) Indian Institute of Management Calcutta Working Paper Series WPS No. 638/ May 2009, “A Survey of Indian Express Delivery Service.”

The purpose of this paper is to present a survey of Indian express delivery service providers. The objective is to assess the current state of the Indian express sector, its dynamics, problems and opportunities for growth.

2) Effective and Efficient: Large-Scale Dynamic City Express Siyuan Zhang, Lu Qin, Yu Zheng, Senior Member, IEEE, and Hong Cheng

Due to the large number of requirements for city express services in recent years, the current city express system is found to be unsatisfactory for both the service providers and customers. In this paper, we are the first to systematically study the large-scale dynamic city express problem. Objective of paper is to increase both the effectiveness and the efficiency of the scheduling algorithm. The challenges of the problem stem from the highly dynamic environment, the NP-completeness with respect to the number of requests, and real-time demands for the scheduling result.

By pointing out the various faults in present structure, the review paper proposes a system which is designed in order to eliminate the point of impact of the faults. The proposed system will prioritize the Options to customer depending on what the customer want, as there are two possibilities of choices either cost or time, with the help of data mining algorithms based on reviews and ratings. To do so, system will have to take the help of following papers. :

1) The Analysis and Prediction of Customer Review Rating Using Opinion Mining Wararat Songpan Department of

Computer Science, Faculty of Science, Khon Kaen University Khon Kaen, Thailand (IEEE BASED)

2) Route Choice of the Shortest Travel Time Based on Floating Car Data by Jingwei Shen and Yifang Ban.

III. PROPOSED SOLUTION

The proposed system by review paper will develop technology to establish the prices of our partners for your specific requirements and then show the range of available options. Admin then ensure that the booking is handled correctly and work with those partners to make sure the whole process is handled smoothly. Admin also handle any issues that may arise on rare occasions.

Start the process of finding the type of courier service customer need by completing our very short courier log in form, where customer are given a selection of different courier options and then it's just a case of giving yours and the recipient's details - simple.

Based on the information customer put into our form, admin can find you the best deals around when it comes to courier prices. When it comes to sending a parcel simply for a low cost, company got it boxed off. The problem that arises when going through postal services is that there are many organizations which have offered various attributes at different values. Our proposed system resolves the problem by putting all information related to all organization present, for same postal into the hand of each and every person through a web application.

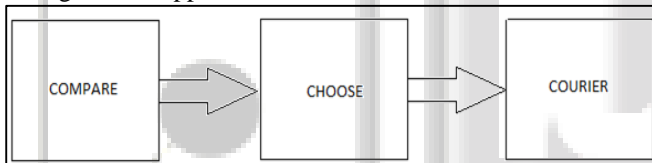


Fig. 1: Process

A. Compare:-

When customer set our self the task to compare parcel delivery prices, it might be down to the fact that you are looking for a delivery company who are cost effective, or you might be looking for the quickest way to send your parcel. Either way, company can help customer compare all of this information in minutes. It pays to shop around when you have a parcel to send, but rather than searching for hours for a great deal, use the options to compare multiple parcel delivery services and book a courier online in just a few clicks. Web site can help customer understand what a courier services is offering, by providing customer with all the info you need.

B. Choose:-

Here customer can compare and choose prices and services according to your requirement from various courier companies online. Choose the best courier company. This makes the decision making of sender easier by providing option to sender from which he might choose best option for himself. Choose the company on the basis of rates and time it required to courier the parcel.

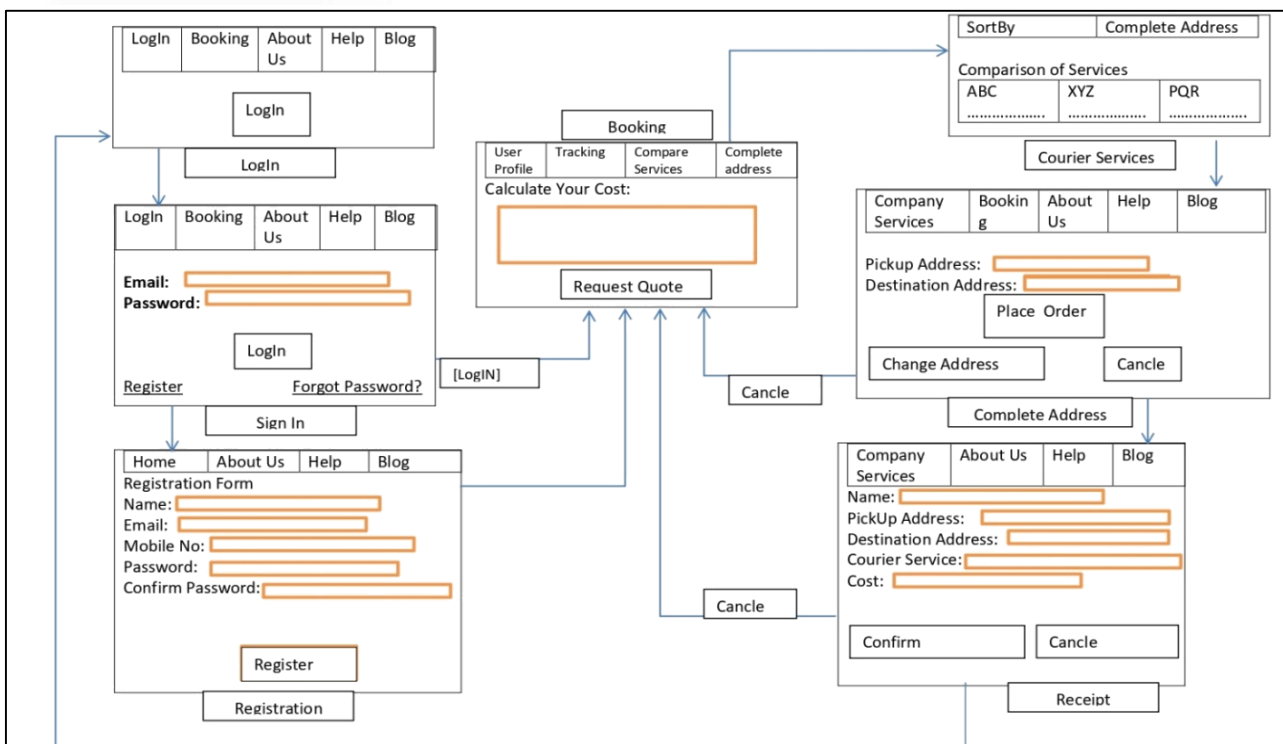
C. Courier:-

After choosing the best courier company courier the parcel, our proposed website link to the company website customer choose.

IV. OBJECTIVE OF PAPER

All customers either from urban and rural region must be connected to postal services at effective cost. The customer must be provided with all the required information for postal services. The customer is provided the option based on rating and reviews.

V. CONTROL FLOW



VI. CONCLUSION

The problems are that people have to spend extra money for their products to be sent through any postal service due to lack of information. The problem is not only up to this point as there are many applications to give calculated cost but their estimation is not on rating basis and they only shows the tie up companies. Also they do not provide system to help customer or guide them rather only perform comparisons based on cost. The system proposed by review paper resolves the problem by putting all information related to all organization present, for same postal into the hand of each and every person through a web application. This makes the decision making of sender easier by providing option to sender from which he might choose best option for himself. The solution is based on the fact that the money of customer and his time and easiness is top priority. The System can be better understood by seeing at the control flow diagram given below.

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