Cost Calculation System for the Products which have to Travel across Multiple Offices

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Abstract—Chalo Ship Kare is the result oriented, enthusiastic Company Leader within all over the world and it also provides Ocean Transportation, Transport operation, International Freight Forwarding and all type of Logistics Service Provide Sectors. This brand has been leading in the top market of freight as getting the best & efficient cost for the shipment.

Our Company Chalo Ship Kare will own 35 ships or more consisting of Tankers and Container vessels providing domestic ocean transportation under the sabotage regulations of India.

With additional services utilizing our vast network of owned and managed modern warehousing, including state of the art cold storage and operating through multiple owned CY’s and utilizing our extensive in house land transportation and we will try our best to be one of India’s most logistics and shipping service provider.

I. OVERVIEW

1.1 Cost Calculation System for the Products which Have To Travel Across Multiple Offices

In this project “COST CALCULATION FOR THE PRODUCTS WHICH HAVE TO TRAVEL ACROSS MULTIPLE OFFICES”, we will be making a website which gives information about the cost calculation of multiple offices for any product to travel from one location to another. This includes the shipping cost, travelling cost, managing employee cost, etc. and aggregating of all those cost to get an efficient & correct cost.

Before implementing it, we will go through the existing model of this project and then make strategies to be performed for enhancement of it. For example, if we take a route, say from place A to place B. The distance among both the place is X km.

Then we will calculate the cost between each office where the product has travelled throughout its journey from A to B. To implement this, firstly we will take the real market price and show them in the tabular form so that a system can be formed for products cost which has to travel through multiple offices.

Now the cost will definitely vary based upon different aspects, we will be adding each of the variations like mode of transport, time to be taken to complete the delivery, weight of the product, packaging charge of the product, where to ship the product and many more.

1.2 Current Working System and its Drawbacks:

This project is based on how the cost of a product varies when it is being travelled from one office to another. The major problem is that there is no proper information about how the charges are being made. Therefore, this project will be helpful to calculate various increments and decrements that occur while transporting any product.

In the existing courier system, there is no such place where a customer can get the benefits of services under one system like Ocean Transport Operation, Door to Door, International Freight Forwarding and others all type of Logistics Service Provide Sectors. There are several clients facing the problem of getting the correct information to user where a user can get to know what costs are included in freight forwarding a parcel from one station to another.

1.3 Benefits of Cost Calculation System for The Products Which have To Travel Multiple Offices

We have a number of offices worldwide delivering services to the needy. All of our shipment service includes ocean transportation, road freight, door to door, air freight. We want to centralize and standardize the process of the bookings of parcels. The website will have personal information of the staff and the officers, using which they will be able to create a login ID, along with details of all the offices, including their location on Google maps.

At present, there is no uniform policy in the practice for advanced booking. Option of one month advance booking for parcel may be provided for in the software. Management of RRH and HH system controls and manages the information of staff agents, administrator and all other system users. It allows a platform to book the parcels and get the services of door pickup getting them the benefit to access the necessary services.

Our Management of Couriers & booking will provide authentication and authorization mechanism. Every end user/courier agent can be able to login to the system with his/her username and password. Site users enter the booking id to track for the parcels. After getting the tracking details they can view where their parcel is and when it is expected to reach the destination. We have a number of offices worldwide delivering services to the needy.
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II. WORKFLOW

![DFD 0 LEVEL](image1)

![DFD 1 LEVEL](image2)

III. MODULES

3.1 Admin Module:

Admin module in the Cost Calculation System for the product which have to travel across multiple offices allows the system administrator to set up the back-end of the system and perform basic system configuration, mainly definition of predefined drop-down fields, the definition of classes, time schedule, etc. All the new packages and promo bundles as well as new prices and price types for classes, new subjects offered, etc. are defined here.

Part of the admin set up is user management which allows users to be set up with definable access level/roles, access to single or multiple branches. Admin can also set up overall system security settings such as required password strength, inactive session timeout, inactive accounts lockout, a password reset period, etc. An important part of security is audit log – any changes in the system are logged here – so it’s easy to check who changed/removed what, at what time, what was the original value and what is the new value set.

The Functionalities of the Administrator is:
1. The administrator should log in into the system with a unique his/her password and username.
2. If the username and password is validated then he can gain access to the system.
3. View the available parcel and change the status of the parcel.
4. Insert /View the Availability and Price.
5. Post the links. Adding the links to the various offices and as well view the links.
6. Blocks the user and view the status of the users.

The Administrator can do the following actions:
1. Login
2. Change Password
3. Admin Functionalities
   1. Change the courier package delivery destination
   2. Post Special details
   3. Edit / Delete courier packages
   5. Logout

3.2 User Module:

The user module in Cost Calculation System for the product which have to travel across multiple offices allows users to register, log in, and log out. Users benefit from being able to sign on because this associates content they create with their account and allows various permissions to be set for their roles.

The user module supports user roles, which can be set up with fine-grained permissions allowing each role to do only what the administrator permits. Each user is assigned one or more roles. By default there are three roles: anonymous (a user who has not logged in) and authenticated (a user who is registered), and administrator (a signed in user who will be assigned site administrator permissions).

The Functionalities of the User is:
1. A new User can register with the application by entering his appropriate details.
2. The User should login into the system with unique his/her password and username.
3. If the username and password is validated then he can gain access to the system.
4. The User can change his password. To change the password, it should ask for the old password, new password and confirm new password.
5. View Parcel.

The User can do the following actions:
1. Register
2. Login
3. Change Password
4. User Functionalities
   1. Advanced Search
This section describes the snapshots of the working module in developed product. The application is developed through HTML, CSS, JavaScript at the server side. The database for the application is MySQL.

V. ADVANTAGES
These are the following advantages of the website:

- The application is eliminating almost complete usage of pen and paper.
- The application provides the user with easy availability and status checking.
- The application provides actual services of the tracking the parcel as well as calculate the shipment.

VI. CONCLUSION
The development of software or website includes so many people like user system developer, user of system and the management, it is important to identify the system requirements by properly collecting required data to interact with supplier and customer of the system. Proper design builds upon this foundation to give a blueprint, which is actually implemented by the developers.

On realizing the importance of systematic documentation all the processes are implemented using a software engineering approach. Working in a live environment enables one to appreciate the intricacies involved in the System Development Life Cycle (SDLC).

This project is designed to meet the requirements of Cost Calculation System to make the process easy and systematic.

For designing the system we have used simple data flow diagrams.

Overall the project teaches us the essential skills like:

- Using system analysis and design techniques like data flow diagram in designing the system.
- Understanding the database handling and query processing.

Basically, the proposed system allows the shipping officers and staff members to see the availability of services and can ship according to their need. The admins and staff members to do the same just require to Login to the system with their respective Login IDs and passwords. After Login they can search for the availability of courier services by simply clicking on the drop down list under cities. After that officers or staff members have to proceed for payment to confirm their booking. The end user can check their status on their respective dashboards.

In future, we can add the feature of Google maps in the system to make it more effective and convenient for the system users.

REFERENCES