# DHL Courier Service as an E-Courier Service: As Perspective of Pakistan

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#### ABSTRACT

It is a new global website; customers can order to send their documents, parcels and shipment from one place to another place. First Customers create account then transfer documents, parcels and shipments. Customer can check status with tracing number and receive updates in their email or mobile phone. Customers can also see detail about services and office time. On admin side managers should be added new branches and new employee. Admin can store consignment record and transfer it to the destination place. Admin should be updated consignment record which is delivered or not. PHP is the latest language for developing web applications. MySQL is used as backend. The main reason to use SQL Server was to make the data secure and also it provides greater compatibility with PHP language. The server I have used is XAMP Server. The beneficiaries of this research are the courier companies and related customers.

Keywords: E-courier Services, Customers, Destination Locator, Shipment Search DOI: 10.7176/CEIS/10-7-01 Publication date: November 30th 2019

#### 1. Introduction

This project is for online courier services system. Courier services are an important role in the world to transfer things one place to another place in today. I have selected to work on this project for sake of online this system. The basic theme is that the work which is currently being done manually in this organization to be now done with the help of computer [1]. This will bring efficiency in the system and also better facilitate the users send their documents or other shipment details online to the destination. In this organization, there may be many systems at work. The scope of our project is limited to the courier system[2]. The scope of my project is to add new employee, manager, calculation of freight of shipment from source to destination place. The objective of the project is to online the current manual system of the courier[3]. This includes activities. First authentication of login to use admin site. To facilitate add/update employees data[4]. To facilitate customer track its consignment online and check status. To facilitate admin updated status of consignment [5]. Tracing consignment result on provide short message on mobile and also on email.

#### 1.1. Feasibility Study

An analysis and evaluation of a proposed project to determine if it is technically feasible, is feasible within the estimated cost, and will be profitable. Feasibility studies are almost always conducted where large sums are at stake. Also called feasibility analysis.[6]

#### 1.2. Existing System Data Gathering

A key part of system analysis of the existing system is gathered in gall relevant information about the present system. The system analyst has to find out how the current system works [7]. He must know what information together, where to find it. How to collect it so he has to spend a lot of time in talking with users and gathering the information [8]. The various tools can also be used for gathering the information.

#### **1.2.1** What kinds of information do we need?

Much of the information, we need to analyze is related to the organization, the user staff and the work flow as shown in figure below.

It depends, which type of information we need then we will proceed further to collect that information [9].

#### **1.2.2** Information sources: the major sources of information are:

- User/Users staff of the system.
- Forms documents, manuals, reports etc. Used in the organization.
- Financial reports
- Personnel staff
- Computer programs of existing systems.
- Government documents, vendors, newspapers, journals

- Procedure manuals and rule books which specify how various tasks are carried out in the Organization.
- Professional staff.



Fig1. Information

Information should be obtained from all the above mentioned sources. The consistency should be checked between them and summarized briefly [10].

**1.2.3 How to collect the information**: At this stage, the system analyst should decide which information method or tool should be used to collect the information and how it must be used. An important strategy to collect the information is that information and how it be acquired, accurately, methodically, under the right conditions and with minimum interruption to the user [11].

The various tools or methods are forms, procedures, on site observation, interviews and questionnaires etc. The information gathering methods are shown in figure below [12].



Fig. 2 Information types

#### 2. Existing System Data Analysis

- Detail study of Existing system
  - It is very important for the designer to understand the existing system before its improvement. In this process the designer must know what he want to do [13].

### Understanding the Existing System

Without the proper understanding of the existing system the computerized system cannot work properly. The existing system of the DHL Courier system based on the manual system keep the record of the Add shipment, update, and delivered it[14].

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### Add Shipment

In add shipment admin add post with sender and receiver information to transfer it.

- Update Shipment
   The admin update shipment that the post where place. Using this portion when customer take update its consignment so he is known about it.
- Delivered Shipment Admin use this portion to deliver the post that show it into the report when customer check status about his consignment then show that consignment is delivered.

#### 2.1. Requirements

We analyzed our gathered information and we have decided our system should have following functionalities:

## Authentication of User

- Admin
- Creation of Register User account
- Creation of Employee account
- Creation of Client account
- Authorization of admin
- Authorization of Client
- Authorization of Employee account
- **Functionality portion**
- Admin
- Employee
- Visitor
- Client
- Register user
- Different type of Module
- User related data entries
- Detailed Courier Tracking
- Summarized Courier Tracking

#### 3. Introduction to System Design

This unit introduces students to requirements systems design, as well as databases. The principles and concepts of data storage, management and modeling are considered, including the role of data in business. The systems analysis and design component uses the traditional Structured Systems Analysis and Design Method (SSADM), and acts as a design precursor to the database section of the unit. Different methodologies for database design and implementation are covered. These include the flat file, hierarchical, network and relational approaches.

#### 3.1. Proposal System and its features

A Systems Proposal is usually offered as both a written report and as a presentation. It often ends the second phase of a project, and suggests the following phases, most accurately the Design phase which should finally define the total project's costs, which are still very tentative. Its purpose is to convince the client's decision makers to proceed with the project, and to gain their consensus about the best way to proceed. Note that a Proposal is not a quotation! That comes later, when the specifications have been agreed. Its most important quality is credibility. These should be as specific as possible, and obviously attractive to the readers, individually and together.

#### 3.2. System Design using UML

Unified Modeling Language is a graphical visualization language. It consists of a series of symbols and connectors that can be used to create process diagrams and is often used to model computer programs and workflows.

The UML standard defines nine types of diagram:

- Activity: model the flow of a system from action to response
- Class: define the structure of a system
- Collaboration: represents interaction between objects as a series of messages
- **Component**: describe the organization of software components
- **Deployment:** depict the physical resources of a system
- **Object:** describe the static structure of a system at a particular time
- Package: method of organizing the elements of a system into related groups
- Use Case: models the functionality of a system in terms of user interaction
- Sequence: describes the interaction between classes in terms of message exchange

• State chart: describe the dynamic behavior of a system in response to external Stimulus

#### 3.3 Use Case Diagram



Fig 4. Sequence diagram

#### 4. Data Base Design

A database is a place to store information. That information could be sales figures, an inventory of computers you own, a list of key customers, timesheet information; the possibilities are endless. By having the database on your site, you can easily share the information with people who need access to it.

#### 4.1 Entity

The thing about which data is collected is called entity. For example Person, Place, Event etc. are entities. Entity

is always written in rectangular box:

#### 4.2 Attribute

Attributes define the properties of a data object and take on one of three different characteristics. They can be used to:

- Name an instance of data object.
- Describe the instance.
- Make reference to another instance in other table



Fig 5. Attributes

#### 4.3 Data object

A data object encapsulates data only there is no reference within a data object to operations that act on the data.

#### 4.4 ER Diagram of DHL Courier Management System



#### 4.5.Add Shipment

#### **Table No.1 Add Shipment**

	1	Courier_ID	int(11)		No	None	AUTO_INCREMENT	🥜 Change	Drop	Browse distinct values	Primary	▼ More
	2	Consign_NO	text	latin1_swedish_ci	No	None		🥜 Change	Orop	Browse distinct values	Primary	▼ More
	3	Shiper_name	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	4	Shiper_Phone	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	5	Shiper_Addr	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	
	6	Rcvr_Name	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	7	Rcvr_Phone	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	🔎 Primary	▼ More
	8	Rcvr_Addr	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	9	Consig_Type	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	10	weight	int(11)		No	None		🥜 Change	Orop	Browse distinct values	🔑 Primary	▼ More
	11	Invoice_NO	int(11)		No	None		🥜 Change	Drop	Browse distinct values	🔑 Primary	▼ More
	12	Qty	int(11)		No	None		🥜 Change	Drop	Browse distinct values	🔑 Primary	▼ More
	13	Book_mode	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	🔎 Primary	▼ More
	14	Freight	int(11)		No	None		🥜 Change	🔵 Drop	Browse distinct values	Primary	▼ More
	15	Ship_Mode	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	✓ More
	16	Pick_date	date		No	None		🥜 Change	Orop	Browse distinct values	🔑 Primary	▼ More
	17	Pick_time	time		No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	18	Status	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	19	Comments	text	latin1_swedish_ci	No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
	20	Book Date	date		No	None		Change	C Drop	Browse distinct values	A Primary	▼ More

#### 4.6. Courier track

#### Table No 3 Courier Track

-					1 a	bie	110 5 (	Julier Hack					ues Primary ▼ Mo Primary ▼ Mo ues Primary ▼ Mo ues Primary ▼ Mo	
	# Name		Туре	Collation	Attributes	Null	Default	Extra	Action					
	1 <u>ID</u>		int(11)			No	None	AUTO_INCREMENT	🥜 Change	😂 Drop	Browse distinct	values	🔎 Primary	▼ More
	2 Courie	r_ID	int(11)			No	None		🥜 Change	🔵 Drop	Browse distinct	values <sub>c</sub>	🔑 Primary	▼ More
	3 Consig	n_NO	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct	values	Primary	▼ More
	4 Curren	t_City	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct	values (	Primary	▼ More
2	5 Status		text	latin1_swedish_ci		No	None		🥜 Change	🥥 Drop	Browse distinct	values <sub>(</sub>	🄑 Primary	▼ More
	6 Comme	ents	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct	values	🖉 Primary	▼ More
	7 Book_1	lime	datetime	9		No	None		🥜 Change	Drop	Browse distinct	values	Primary	▼ More

#### 4.7. New Officer Add

#### Table No 4 New Officer Add

#	Name	Туре	Collation	Attributes	Null	Default	Extra	Action	
1	<u>ID</u>	int(11)			No	None	AUTO_INCREMENT	🥜 Change	🥥 Drop 📑 Browse distinct values 🔑 Primary 🔻 Mor
2	Office_Name	text	latin1_swedish_ci		No	None		🥜 Change	Q Drop ☐ Browse distinct values Primary ▼ Mor
3	Address	text	latin1_swedish_ci		No	None		🥜 Change	⊖ Drop
4	City	text	latin1_swedish_ci		No	None		🥜 Change	Q Drop ☐ Browse distinct values Primary ▼ Mor
5	Phone_NO	text	latin1_swedish_ci		No	None		🥜 Change	🤤 Drop 📑 Browse distinct values 🔑 Primary 🔻 Mor
6	Office_Time	text	latin1_swedish_ci		No	None		🥜 Change	Q Drop ☐ Browse distinct values Primary ▼ Mor
7	Contact_Person	text	latin1_swedish_ci		No	None		🥜 Change	🤤 Drop 🔄 Browse distinct values 🔑 Primary 👻 Mor

#### 4.8. New Office

				r	Гab	le No 4	4 new Office					
#	Name	Туре	Collation	Attributes	Null	Default	Extra	Action				
1	Courier_ID	int(11)			No	None	AUTO_INCREMENT	🥜 Change	Drop	Browse distinct values	Primary	▼ More
2	Officer_Name	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct values	Primary	▼ More
3	username	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct values	Primary	▼ More
4	Password	text	latin1_swedish_ci		No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
5	Contact_No	text	latin1_swedish_ci		No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
6	E_Mail	text	latin1_swedish_ci		No	None		🥜 Change	Orop	Browse distinct values	Primary	▼ More
7	S_Que	text	latin1_swedish_ci		No	None		🥜 Change	Drop	Browse distinct values	🖉 Primary	▼ More
8	Y_Ans	text	latin1_swedish_ci		No	None		🥜 Change	🔵 Drop	Browse distinct values	Primary	▼ More
9	Office_Name	text	latin1_swedish_ci		No	None		🥜 Change	Drop	Browse distinct values	Primary	▼ More
10	Reg_Date	datetime	:		No	None		🖉 Change	Drop	Browse distinct values	Primary	▼ More

#### **5. Introduction to System Development**

The systems development life cycle (SDLC) is a conceptual model used in project management that describes the stages involved in an information system development project, from an initial feasibility study through maintenance of the completed application.



#### 5.1 Tool/Language Selection

Dreamweaver MySQL WINDOW 7

#### 5.2 Software Development & Implementation

In order to effectively implement a solution, it is necessary to understand the needs and expectations of the client and the problem. Intrafinity's five-phase Smart Work implementation methodology guides both our client and team through a proven process that ensures the best possible solution with defined expectations, budgets, and timeframes. The methodology's phases are Envisioning, Planning, Developing, Stabilizing, and Deploying.



Fig 8.System development life cycle

#### 5.3 Admin login

Home Adm Your E_Mail: Password: Select your office:	Ex: 1JNU2L6V Traking	
Your E_Mail: Password: Select your office:	in Login	
	DHL-Courier_Multan - <i>Eorget Password</i> [Log in]	

Figure 9. admin login with email, Password and office name.

#### 5.4 Record Link

	Ex: 1JNU2L6V Traking
Home   New Manager   Add Courier   Reports   Log Out	
Courier Management System	
Add Shipment	
List Shipment	
New Office	
New Officer	
Pasword Change	
© 2013 - DHL Couner	webdesign: <u>dni.com</u>   Sponsored by: <u>Javed Ramzan</u>

5.5 Add Shipment

Figure 10	). all	list recor	d lu	ık.
-----------	--------	------------	------	-----

	ADD Shipment	
Shipper info : Shipper Name :	Required	
Phone :		
Address :	al Required	
Receiver info :		
Receiver Name :	Required	
Phone :		
Address: :	al Required	
Shipment info :		
Consignment No :	DI482QWP	
Type of Shipment :	Documents -	
Weight :	(kg)	
Invoice no :		
Qnty :		
Booking Mode :	Paid -	

Figure 11. admin store new shipment record.

#### 5.6 Deliverd Report

-DHL-		
	Ex: 1JNU2L6V Traking	
Home New Manager Add Courier Reports Log Out		
Reports:       Image: Datewise Report       Image: Datewise Report       Image: Datewise Report       Image: Datewise Report		

Figure 12. admin check datewise & Deliverd report.

#### 5.7 Datewise Report

_2	HL_						
_				Ex: 1JNU2L6V	Traking		
Home	New Manager Add	Courier   Repor	ts Log Out				
	Date wise Report						
Edit	Consignment No	Shipper	Receiver	Pickup Date/Time	Status		
	WK1DI05V			0000-00-00 - 00:00:00	In Transit		
	1FMU2G6G	Ali	Adeel Hassan	2013-07-06 - 11:00:09 2013-06-19 - 14:00:00	In Transit		
1000							
© 2013 - <u>DH</u>	© 2013 - <u>DHL Courier</u> Webdesign: <u>dhl.com</u>   Sponsored by. <u>Javed Ramzan</u>						

Figure 13. Datewise report

#### **5.8** Consignment Report

	<b>72</b> _								
				Ex: 1JNU2L6V	Traking				
Home   New Manager   Add Courier   Reports   Log Out									
Delivered Report									
Edit	Consignment No	Shipper	Receiver	Pickup Date/Time	Status				
	5TCXL30Q	Anwar	Yasir	0000-00-00 - 00:00:00 2013-06-18 - 14:00:00	Delivered Delivered				
@ 2013 - DHL C	ourier	Webdesign: <u>dhl.com</u>   Sponsored b	y: Javed Ramzan						

Figure 14. delivered consignment report.

#### 5.9 Tracking System

Home New Manager Add Courier Report	Home New Manager Add Courier Reports Log Out									
Tra	Traking Result									
Shipper Name : Anwar Shipper Phone : 0436598741 Shipper Address : Mdi town , Lahore	Receiver Name : Yasir Receiver Phone : 0518547264 Receiver Address : Y Block, Islamabad									
Consignment N	0: 5TCXL30Q									
Ship Type	: Documents									
Weigh	nt: 1kg									
Invoice n	o: 98745									
Booking Mode	e: Pald									
Total freigh	nt : 100Rs.									
Mode	e: Road									
Pickup Date/Time	e : 2013-06-18(14:00:00)									
Statu	s : Delivered									
Comment	s: Piz Complete it									

Figure 15. users search consignmet with tracking number.

#### 5.10 Couriar List

Ext 100202         Home       New Manager       Add Courler       Reports       Log Out         Courier List       Edit       Consignment No       Shipper       Receiver       Pickup Date/Time       Status         1       FMU2266G       Ali       Hassan       2013-06-18 - 14:00:00       In Transit         1       FMU226GG       Ali       Hassan       2013-06-18 - 14:00:00       In Transit         1       FMU230G       Junaid       Adeel       2013-06-18 - 14:00:00       Delivered         1       Wix1010SV       Junaid       Adeel       2013-06-18 - 14:00:00       Delivered	-	<b>D</b> fi	<b>~_</b>				
Home       New Manager       Add Courier       Reports       Log Out         Courier List       Edit       Consignment No       Shipper       Receiver       Pickup Date/Time       Status         1FMU2666       Ai       Hassan       2013-06-19 - 14:00:00       in Transit         1FMU2666       Ai       Hassan       2013-06-19 - 14:00:00       in Transit         1       FCXL30Q       Anwar       Yasir       2013-06-19 - 14:00:00       in Transit         1       RH0UY33G       Junaid       Adeel       2013-07-06 - 11:00:09       in Transit         1       WK1DI05V       0000-00-00 - 00:00:00       Delivered						Ex: 1JNU2L6V	Traking
Courier List         Edit       Consignment No       Shipper       Receiver       Pickup Date/Time       Status         1       FMU2G6G       Ai       Hassan       2013-06-19       14.00.00       In Transit         1       5TCXL30Q       Anwar       Yasir       2013-06-18       14.00.00       Delivered         1       FM02Y3SG       Junaid       Adeel       2013-07-06       110.00.90       in Transit         1       Wik1Dl05V       Junaid       Adeel       2013-07-06       100.000       Delivered         1       Wik1Dl05V       Junaid       Adeel       2013-07-06       0000-00-00       Delivered	Но	ome Ne	ew Manager 🕴 Add C	ourier Reports	s Log Out		
Edit       Consignment No       Shipper       Receiver       Pickup Date/Time       Status         1       1FMU2G6G       Ali       Hassan       2013-06-19 - 14.00.00       in Transit         5       5TCXL30Q       Anwar       Yasir       2013-06-18 - 14.00.00       Delivered         1       RH0UY3SG       Junaid       Adeel       2013-07-06 - 11.00.09       in Transit         1       Wik1DI05V       0000-00-0 - 00:00.00       Delivered         2       Vik1DI05V       0000-00-0 - 00:00.00       Delivered				Co	ourier List		
1FMU2GEG         Ali         Hassan         2013-06-19 - 14:00:00         in Transit           1FMU2GEG         Anwar         Yasir         2013-06-18 - 14:00:00         Delivered           1FMU2Y3G         Junaid         Adeel         2013-07-06 - 11:00:09         in Transit           1FMU2GEG         WK1DI05V         0000-00-00 - 00:00:00         Delivered           1FMU2GEG         VK1DI05V         0000-00-00 - 00:00:00         Delivered		Edit	Consignment No	Shipper	Receiver	Pickup Date/Time	Status
STCXL30Q       Anwar       Yasir       2013-06-18 - 14:00:00       Delivered         RH0UY3SG       Junaid       Adeel       2013-07-06 - 11:00:09       In Transit         WK1Di05V       0000-00-00 - 00:00:00       Delivered		<b>*</b>	1FMU2G6G	Ali	Hassan	2013-06-19 - 14:00:00	In Transit
RH0UY3SG       Junaid       Adeel       2013-07-06 - 11:00:09       In Transit         WK1DI05V       0000-00-00 - 00:00:00       Delivered         Ultrain       Delivered       Delivered         VIA       Delivered       Delivered         Ultrain       Sponsored by Javed Ramzan		E DIT	5TCXL30Q	Anwar	Yasir	2013-06-18 - 14:00:00	Delivered
WK1Di05V       0000-00-00 - 00:00:00       Delivered         WK1Di05V       WK1Di05V       Delivered <th></th> <th>EDIT</th> <th>RH0UY3SG</th> <th>Junaid</th> <th>Adeel</th> <th>2013-07-06 - 11:00:09</th> <th>In Transit</th>		EDIT	RH0UY3SG	Junaid	Adeel	2013-07-06 - 11:00:09	In Transit
© 2013 - <u>DHL Courier</u> Webdesign: <u>dhl com</u>   Sponsored by: <u>Javed Ramzan</u>		2007	WK1DI05V			00:00:00 - 00:00:00	Delivered
© 2013 - <u>DHL Courier</u> Webdesign: <u>dhi com</u> i Sponsored by: <u>Javed Ramzan</u>							
© 2013 - <u>DHL Courier</u> Webdesign: <u>dbl.com</u>   Sponsored by: <u>Javed Ramzan</u>							
© 2013 - <u>DHL Courter</u> Webdesign: <u>dhL com</u>   Sponsored by: <u>Javed Ramzan</u>							
© 2013 - DHL Counter Webdesign: dhLcom   Sponsored by, Javed Ramzan			1				
	© 201	3 - <u>DHL Cor</u>	<u>irier</u>			Webdesign: dhl.com   Sponsored b	y: <u>Javed Ramzan</u>

Figure 16. all consignment list which is stored in the DHL record.

#### 5.11 Add New Branch

Home 📋 New Manager	Home   New Manager   Add Courier   Reports   Log Out   Add New Office				
New Office informatio	n :				
Office Name	):	Required			
Addres	<b>3:</b>				
Cit	/:	Required			
Phone Numbe	r:	Required			
Office Timin	J: Required				
Contact Person		Required			
	Add Office				

Figure17. admin add new branch.

#### 5.12 Change Password

_DHL_			
		Ex: 1JNU2L6V Traking	
Home i New Manager i Add Col	uner Reports Log Out		
Current Password:	Change Password		
New Password: Confirm Password:			
	Submit		
- /	Υ.		
⊗ 2013 - DHL Courier	Webdesi	ign: <u>dhl.com</u>   Sponsored by: <u>Javed Ramzan</u>	

Figure 18. admin change or update current password.

#### 5.13 Verification of Password

Home         Verification of Password         Enter your E_mail:         Select Question:         Select Question:         Your Answer:         Submit	_DHL_			
Home          Verification of Password         Enter your E_mail:         Select Question:         Select         Your Answer:         Submit			Ex: 1JNU2L6V Traking	
Verification of Password         Enter your E_mail:         Select Question:         Select         Your Answer:         Submit	Home			
Enter your E_mail: Select Question: Select • Your Answer: Submit		Verification of Password		
Select Question: Select  Your Answer: Submit	Enter your E_mail:			
Submit	Select Question: Your Answer:	Select •		
		Submit		
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Figure 19. admin verify password if he forget current password.

#### Conclusion

This project is on **DHL Courier System.** This project provides facilities to admin as well as user. With the help of this software the admin can store data easily as compared to old manual system. In this project admin can search consignment current status with the help of consignment number and also update data. In this software admin can login to their profile and also retrieve or reset password. Customer can also get online information about their consignment with the help of tracking number and also about other DHL courier branches detail and their services. Using this software admin can update website. This software provide following facilities:

- Admin can see all consignment detail and can perform all type of operation on data.
- Admin have the access to all the employee profile and also can edit it.
- Customers can track consignment at home online by using this website.
- Customers can have the facility of online booking of their documents and other parcel.

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