Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering

Semester: (Spring, Year: 2023), B.Sc. in CSE (Day)

Course Title: Integrated Design Project II

Course Code: CSE-406

Section: 201 D5

Lab Project Name: Courier Management System

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Submission Date : 19th June 2023
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Lab Project Status
Marks: ..... **Signature:** .....
Comments: .....**Date:** .....

Abstract

This Courier Management System Project will have different modules. The login section will have login facility for the admin and for the user who will operate this system. While taking orders from its customers, it will take all the details of its customers who are placing the orders and all the details for the recipient such as its address, name, and mobile number. Through the tracking id, customers or its recipient will able to track their products from any location using internet. It will provide status of the product after placing orders within 1 minute. The admin can manipulate the data through admin login page and add any new consignment if required. The profile section shows the data of the user and the rising section of the project shows the price that will be charged for the consignment according to the product categories.
Using the courier service person can easily send his/her parcel to other person in the particular destination within the time & safely.

Contents

1 Chapters –

Chapter – 1

4.1 Introduction:

This Courier Management System Project will have different modules. The login section will have login facility for the admin and for the user who will operate this system. While taking orders from its customers, it will take all the details of its customers who are placing the orders and all the details for the recipient such as its address, name, and mobile number. During billing process system will generate a tracking id for their products. Through this tracking id, customers or its recipient will able to track their products from any location using internet. It will provide status of the product after placing orders within a minute.
The courier service is one of the solutions of these problems. It is used to send some things to any person in the world within time. The courier company has number of branches, which are spread over the country or the world. So that when person wants to send things then he has to contact at nearest courier service branch. The courier company creates the schedule & gives internal/external services. The courier service work as destination office or source office.
In modern age, as time increase, needs & requirements of the person are also increased. They want more facility & try to do their task quickly & within time.
Within our country, the things can be imported through post service. But it consumes the time & sometimes problem of damage or missing occur. Where as in the international market, the one-way is shipping. But it also requires more time.

4.2 Motivation behind this project:

To gain maximum business region, customer demands good service. So to make more profit and gain maximum business region, their administration must also have a system to tackle all these problems on time. Its administration can take immediate orders and provide a receipt which will include all the details of the products along with appropriate price to their customers. Thus saving time and eliminating line making process.

4.3 Objectives:

• To Improve Customer Service.
• To Optimize Routing and Delivery.
• To Reporting and Analytics.
• To Data Security and Compliance.
• To Cost Reduction.

4.4 Features of proposed system:

These are the important features of the project Courier Management System:
• In computer system of the courier service computation of the rate is easily & quickly done.
• Computer system of the courier service provides fast access.
• Using this computerized system, bill issued procedure becomes fast.
• Computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
• In computer system, it is not necessary to create the Manifest but we can directly print it, which saves our time.
• It contains better storage capacity.
• Accuracy in work.
• Easy & fast retrieval of information.
• Access of any information individually.

- Work becomes very speedy.
- Easy to update information.

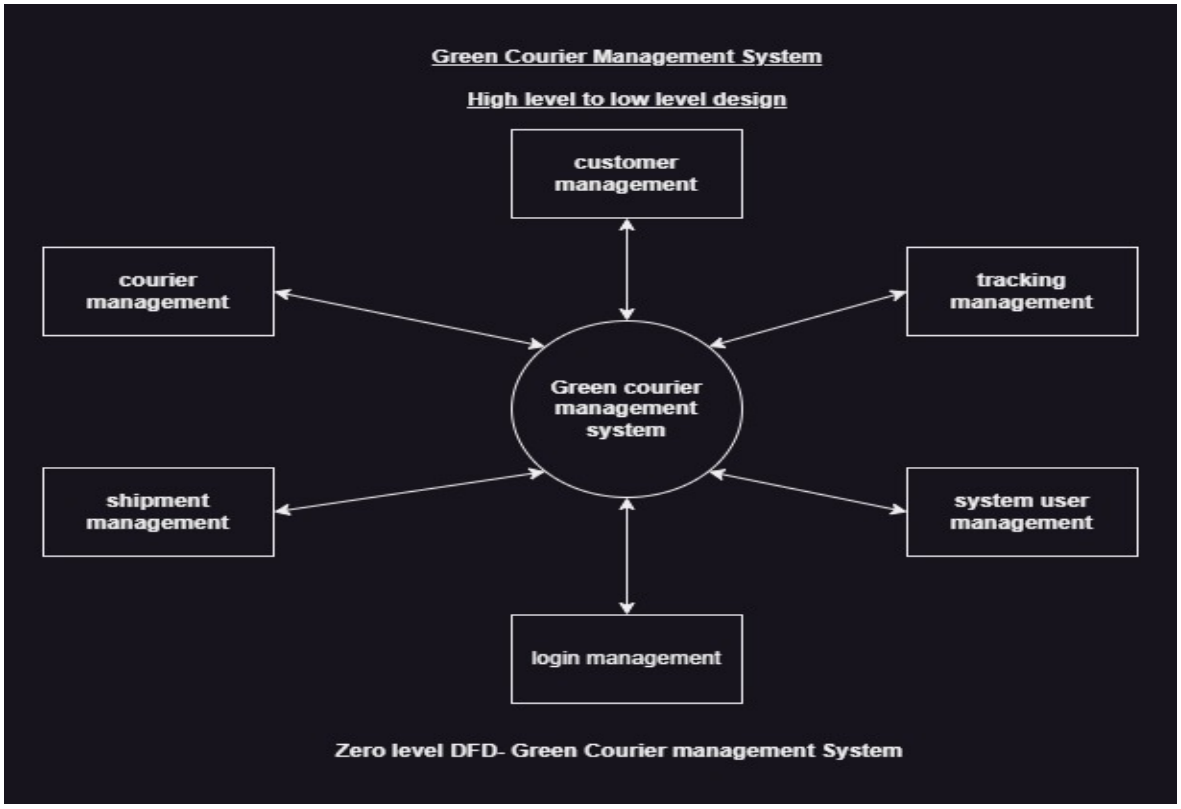
Chapter – 02

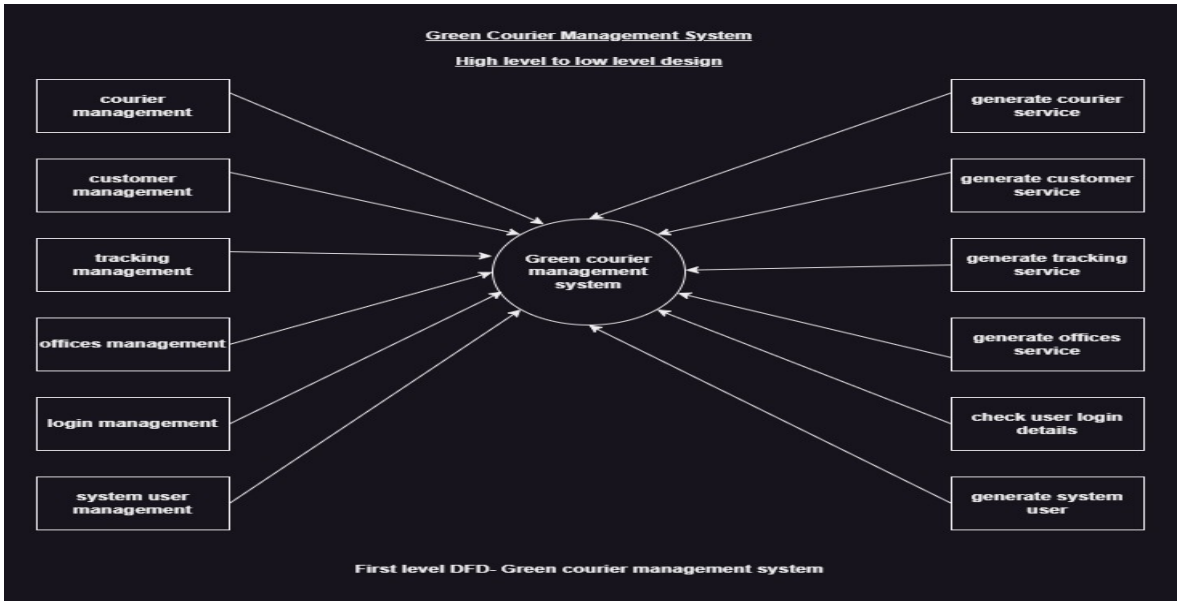
1. Requirements:
System Requirements:
Software Requirement:

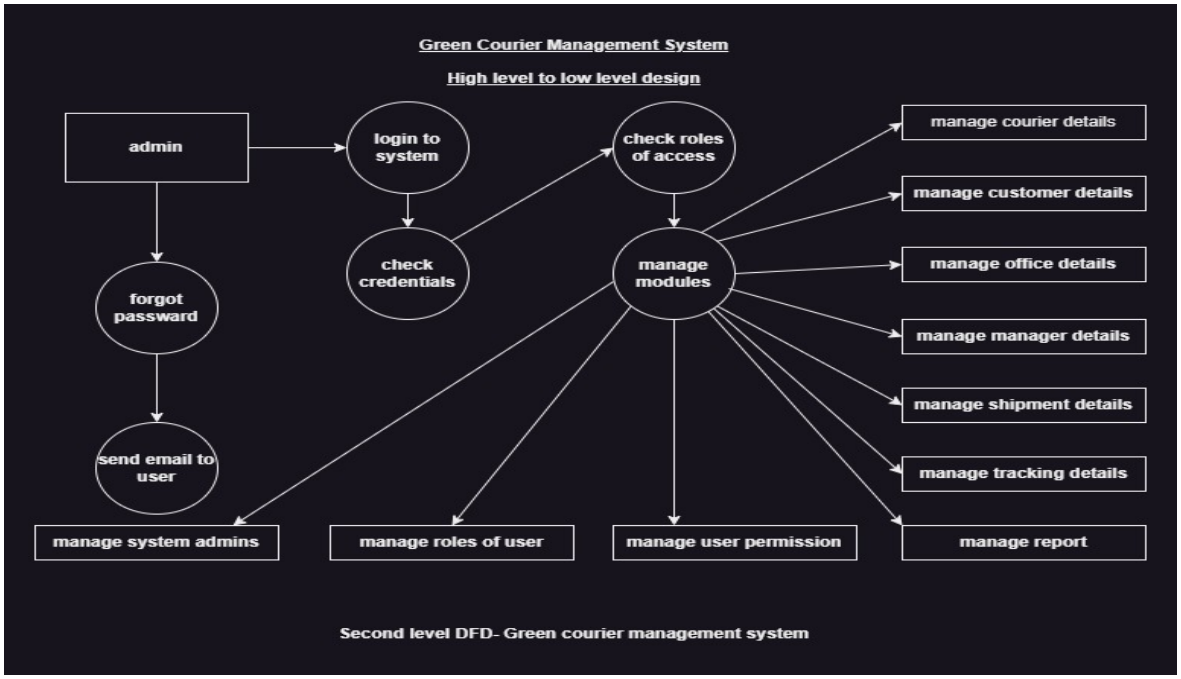
- Apache Server 2.0
- PHP Version 5.3 or above
- MySQL Version 5.5 or above
- Latest browser : Chrome, Firefox, etc
- Operating System : Any (Linux, Windows, Mac etc).
  Hardware Requirements:
- Processor Pentium IV or higher version.
- Ram 128 MB or above.
- Hard Disk 150 MB or above.

Chapter -03

1. DFD diagram (high to low level):
DFD (data flow diagram) can be drawn to represent the system of different levels of abstraction. Higher-level DFDs are partitioned into low levels-hacking more information and functional elements. Levels in DFD are numbered 0, 1, 2 or beyond. Here, we will see mainly 3 levels in the data flow diagram, which are: 0-level DFD, 1-level DFD, and 2-level DFD.
Now we will see the DFD diagram of our proposed system in below:


Green Courier Management System
High level to low level design
customer management
courier management
tracking management
Green courier management system
shipment management
system user management
login management
Zero level DFD- Green Courier management System

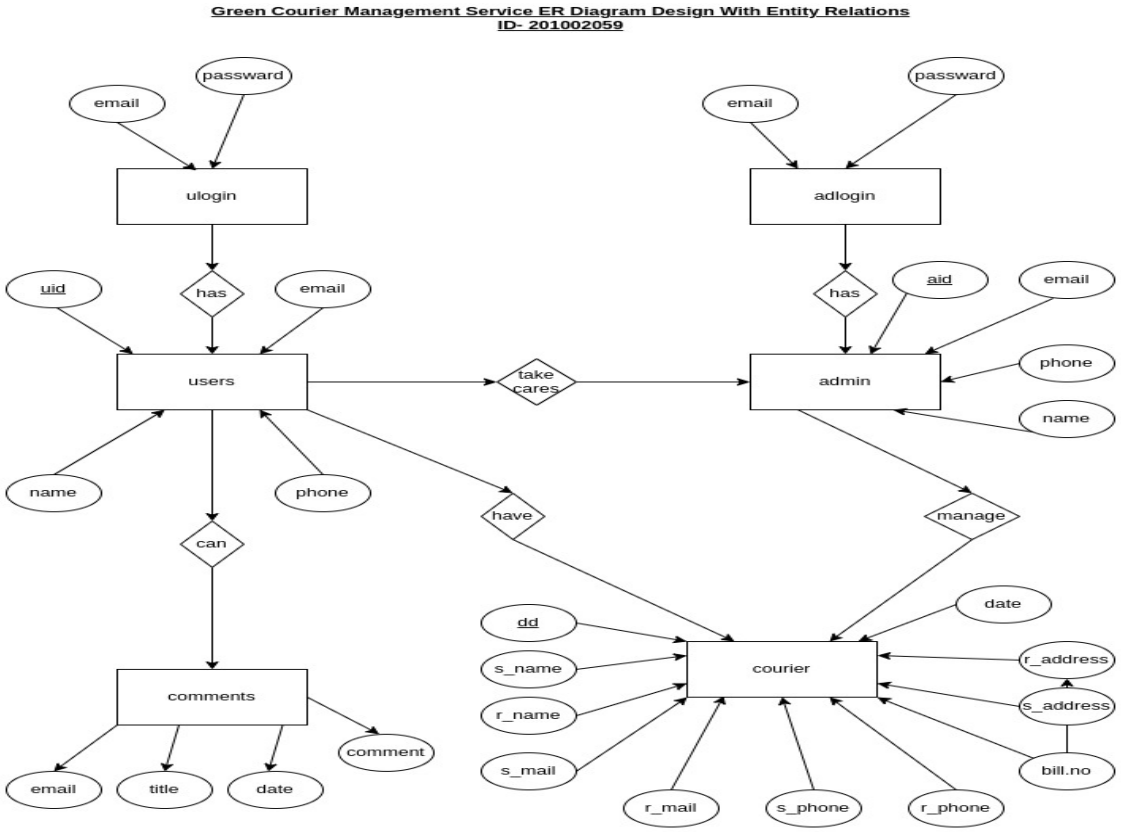

Green Courier Management System
High level to low level design
courier management
customer management
tracking management
offices management
login management
system user management
Green courier management system
generate courier service
generate customer service
generate tracking service
generate offices service
check user login details
generate system user
First level DFD- Green courier management system



Chapter – 04

1. Entity Relationship Diagram:

ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. ER model helps to systematically analyze data requirements to produce a well-designed database. The ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing our database.
Now we will see the ER diagram of our proposed system in below:



Chapter-05

1. Implementation:

Fronted code:

- **Index.php-**

```
<!DOCTYPE html>
<html lang="en">
<?php session_start() ?>
<?php
    if(!isset($_SESSION['login_id']))
        header('location:login.php');
    include 'db_connect.php';
    ob_start();
  if(!isset($_SESSION['system'])){

$system = $conn->query("SELECT * FROM system_settings")->fetch_array();
foreach($system as $k => $v){
  $_SESSION['system'][$k] = $v;
}
}
ob_end_flush();

include 'header.php'
```

```
?>
<body class="hold-transition sidebar-mini layout-fixed layout-navbar-fixed layout-footer-fixed">
<div class="wrapper">
      </div>
    </div>
   <div id="toastsContainerTopRight" class="toasts-top-right fixed"></div>
  <div class="col-sm-6">
        <h1 class="m-0"><?php echo $title ?></h1>
       </div> </div>
        <hr class="border-primary">
    </div> </div>
   <section class="content">
    <div class="container-fluid"> <?php
        $page = isset($_GET['page']) ? $_GET['page'] : 'home';
        if(!file_exists($page.".php")){
            include '404.html';
</div>
 </div>
 <div class="modal fade" id="uni_modal" role='dialog'>
   <div class="modal-dialog modal-md" role="document">
    </div>
    <div class="modal-body">
    </div>
 <div class="modal-header">
      <h5 class="modal-title"></h5>
      <button type="button" class="close" data-dismiss="modal" aria-label="Close">
       <span class="fa fa-arrow-right"></span>
      </button>
    </div>
    <div class="modal-body">
    </div>
            <button type="button" class="btn-close" data-dismiss="modal"><span class="fa fa-
times"></span></button>
          <img src="" alt="">
    </div>
 <aside class="control-sidebar control-sidebar-dark">
 </aside>
 <footer class="main-footer">
  <strong> <a href="https://www.facebook.com/estiakhasan.emon.5">estiakhasan.com</a> </strong>

   <div class="float-right d-none d-sm-inline-block">
    <b><?php echo $_SESSION['system']['name'] ?></b>
   </div>
 </footer>
</div>

<?php include 'footer.php' ?>
</body>
</html>
```

- **Login.php-**

```
function login(){
        extract($_POST);
```

```
$qry = $this->db->query("SELECT *,concat(firstname,' ',lastname) as name FROM users where email = '".$email."' and password = '".md5($password)."' ");
if($qry->num_rows > 0){
    foreach ($qry->fetch_array() as $key => $value) {
        if($key != 'password' && !is_numeric($key))
            $_SESSION['login_'.$key] = $value;
    }
        return 1;
}else{
    return 2;
}}
```

- **User.php-**

```
function save_user(){
    extract($_POST);
    $data = "";
    foreach($_POST as $k => $v){
        if(!in_array($k, array('id','cpass','password')) && !is_numeric($k)){
            if(empty($data)){
                $data .= " $k='$v' ";
            }else{
                $data .= ", $k='$v' ";
            }
        }
    }
    if(!empty($password)){
            $data .= ", password=md5('$password') ";
}
```

- **Signup.php-**

```
function signup(){
    extract($_POST);
    $data = "";
    foreach($_POST as $k => $v){
        if(!in_array($k, array('id','cpass')) && !is_numeric($k)){
            if($k =='password'){
                if(empty($v))
                    continue;
                $v = md5($v);


    }
    if(empty($data)){
        $data .= " $k='$v' ";
    }else{
```

```
            $data .= ", $k='$v' ";
        }
    }
}
```

- **Update_user.php-**

```
function update_user(){
    extract($_POST);
    $data = "";
    foreach($_POST as $k => $v){
        if(!in_array($k, array('id','cpass','table')) && !is_numeric($k)){
            if($k =='password')
                $v = md5($v);
            if(empty($data)){
                $data .= " $k='$v' ";
            }else{
                $data .= ", $k='$v' ";
            }
        }
    }
```

- **Delete_user.php-**

```
function delete_user(){
    extract($_POST);
    $delete = $this->db->query("DELETE FROM users where id = ".$id);
    if($delete)
        return 1;
```

- **Branch.php-**

```
function save_branch(){
    extract($_POST);
    $data = "";
    foreach($_POST as $k => $v){
        if(!in_array($k, array('id')) && !is_numeric($k)){
            if(empty($data)){
                $data .= " $k='$v' ";
            }else{
                $data .= ", $k='$v' ";
            }
        }
    }
```

- **Parcel.php-**

```
function save_parcel(){
    extract($_POST);
```

```
foreach($price as $k => $v){
    $data = "";
    foreach($_POST as $key => $val){
   if(!in_array($key, array('id','weight','height','width','length','price')) && !is_numeric($key)){
        if(empty($data)){
            $data .= " $key='$val' ";
        }else{
            $data .= ", $key='$val' ";
        }
    }
    }
```

- **history.php-**

```
function get_parcel_heistory(){
    extract($_POST);
    $data = array();
      $parcel = $this->db->query("SELECT * FROM parcels where reference_number = '$ref_no'");
    if($parcel->num_rows <=0){
        return 2;
```

- **report.php**

```
function get_report(){
    extract($_POST);
    $data = array();
  $get = $this->db->query("SELECT * FROM parcels where date(date_created) BETWEEN '$date_from' and '$date_to' ".($status != 'all' ?  " and status = $status " :  "")." order by unix_timestamp(date_created) asc");
  $status_arr = array("Item Accepted by Courier","Collected","Shipped","In-Transit","Arrived At Destination","Out for Delivery","Ready to Pickup","Delivered","Picked-up","Unsuccessfull Delivery Attempt");
```

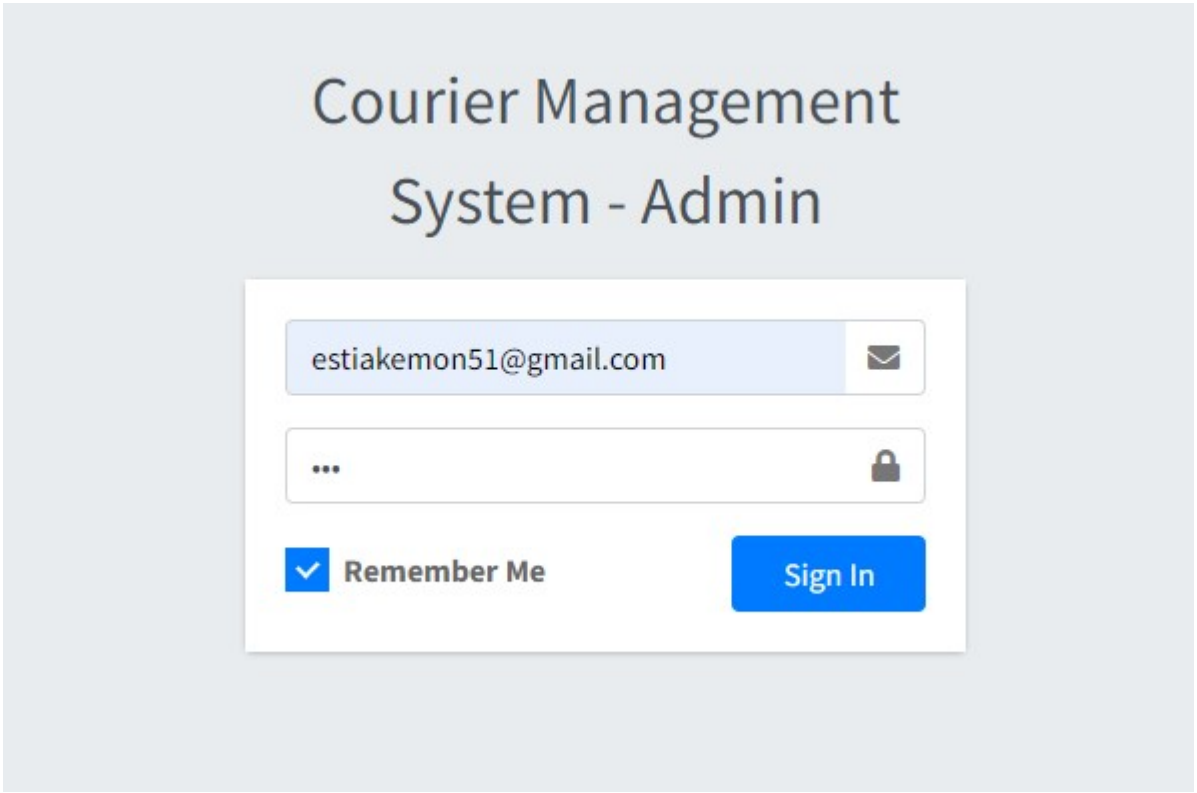
- **backend code-**

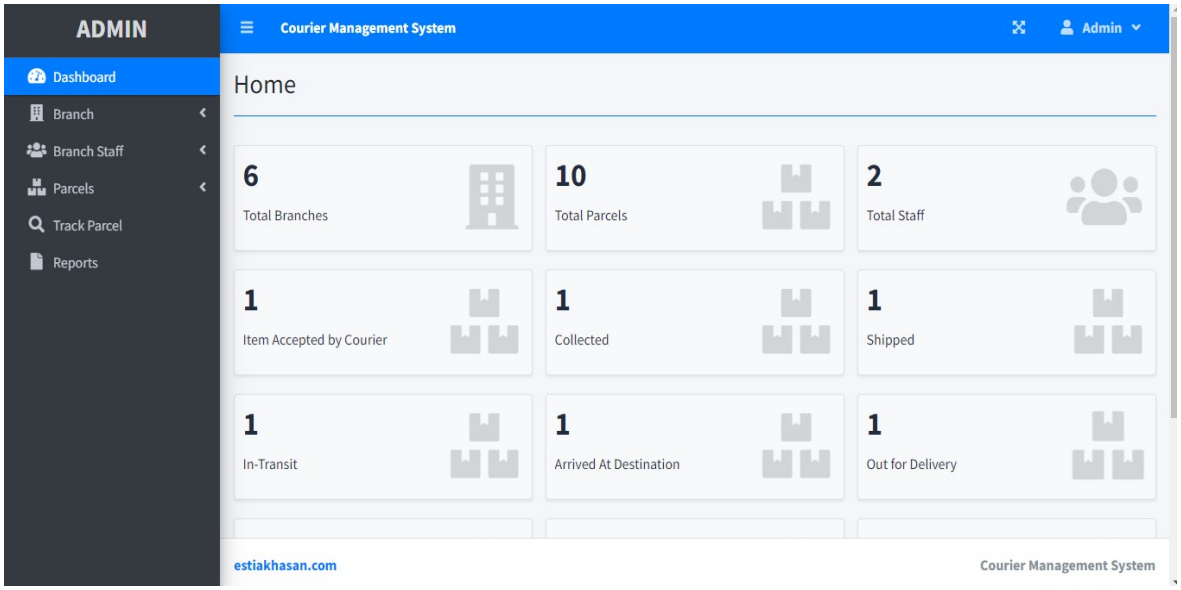
```
– phpMyAdmin SQL Dump
– version 5.0.4
– https://www.phpmyadmin.net/
–
– Host: 127.0.0.1
– Generation Time: Jun 09, 2023 at 09:35 AM
– Server version: 10.4.17-MariaDB
– PHP Version: 7.2.34
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
```

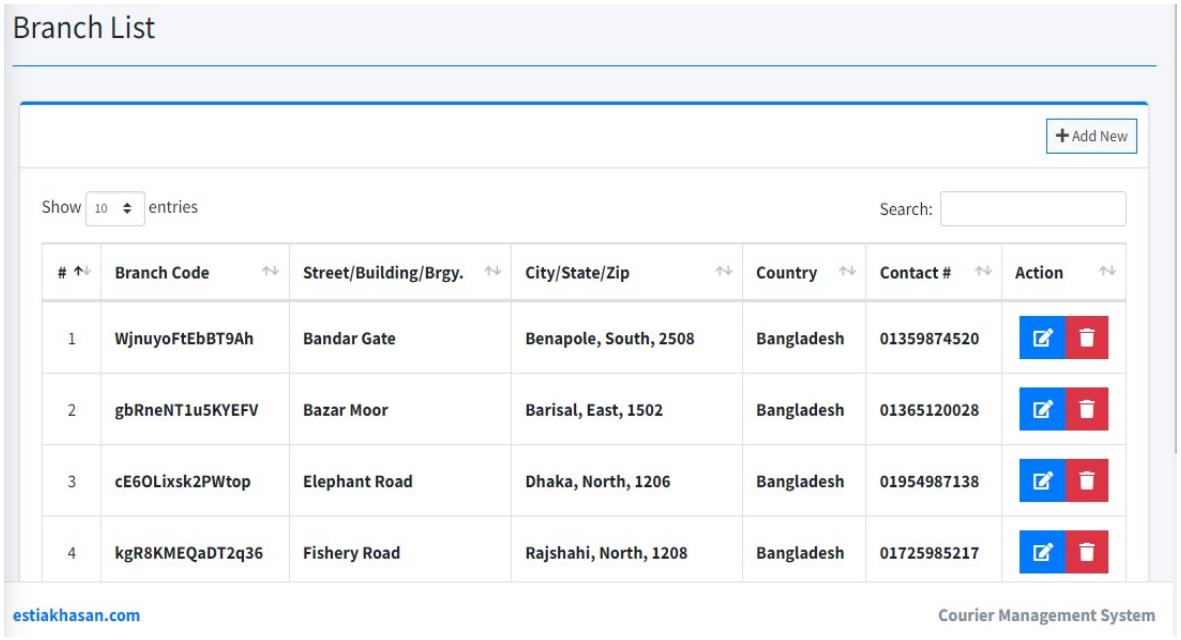
```
SET time_zone = "+00:00";
– Database: ‘cms_db‘
– Table structure for table ‘branches‘
CREATE TABLE ‘branches‘ (
  ‘id‘ int(30) NOT NULL,
  ‘branch_code‘ varchar(50) NOT NULL,
  ‘street‘ text NOT NULL,
  ‘city‘ text NOT NULL,
  ‘state‘ text NOT NULL,
  ‘zip_code‘ varchar(50) NOT NULL,
  ‘country‘ text NOT NULL,
  ‘contact‘ varchar(100) NOT NULL,
  ‘date_created‘ datetime NOT NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Chapter-06

1. Snapshots:




ADMIN
Courier Management System
Admin
Dashboard
Branch
Branch Staff
Parcels
Track Parcel
Reports
Home
6
Total Branches
10
Total Parcels
2
Total Staff
1
Item Accepted by Courier
1
Collected
1
Shipped
1
In-Transit
1
Arrived At Destination
1
Out for Delivery
estiakhasan.com
Courier Management System


Branch List
+ Add New
Show 10 entries
Search:
Branch Code Street/Building/Brgy. City/State/Zip Country Contact # Action
1 WjnuyoFtEbBT9Ah Bandar Gate Benapole, South, 2508 Bangladesh 01359874520
2 gbRneNT1u5KYEFV Bazar Moor Barisal, East, 1502 Bangladesh 01365120028
3 cE6OLixsk2PWtop Elephant Road Dhaka, North, 1206 Bangladesh 01954987138
4 kgR8KMEQaDT2q36 Fishery Road Rajshahi, North, 1208 Bangladesh 01725985217
estiakhasan.com
Courier Management System

Parcel List

+ Add New

Show 10 entries

Search:

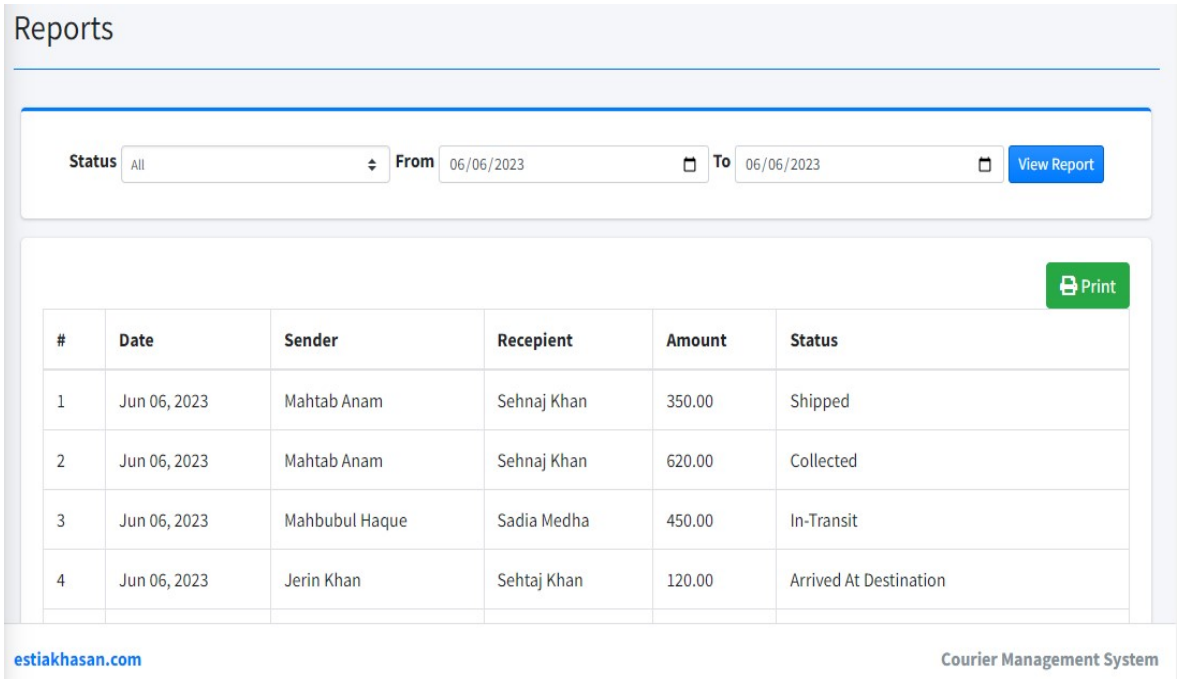
#	Reference Number	Sender Name	Recipient Name	Status	Action
1	378545732700	Sahin Alam	Babar Mia	Out for Delivery	
2	239926114566	Sahin Alam	Babar Mia	Ready to Pickup	
3	674135847198	Sahin Alam	Babar Mia	Delivered	
4	601233214259	Sahin Alam	Babar Mia	Picked-up	

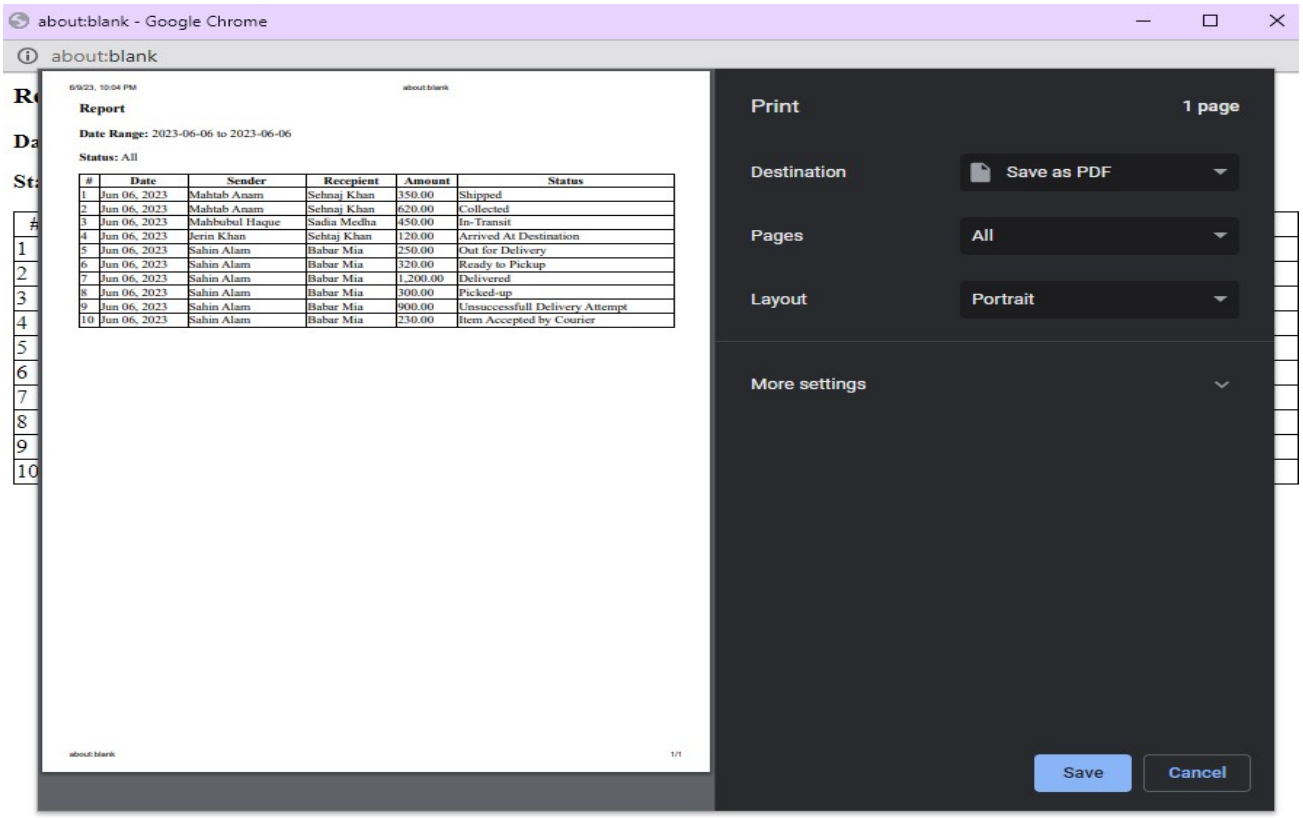
Track

Enter Tracking Number 239926114566

Item accepted by Courier Jun 06, 2023 10:18 PM

Ready to Pickup Jun 06, 2023 10:19 PM


Reports
Status All
From 06/06/2023
To 06/06/2023
View Report
Print
Date Sender Recepient Amount Status
1 Jun 06, 2023 Mahtab Anam Sehnaj Khan 350.00 Shipped
2 Jun 06, 2023 Mahtab Anam Sehnaj Khan 620.00 Collected
3 Jun 06, 2023 Mahbubul Haque Sadia Medha 450.00 In-Transit
4 Jun 06, 2023 Jerin Khan Sehtaj Khan 120.00 Arrived At Destination
estiakhasan.com
Courier Management System


about:blank - Google Chrome
about:blank
6/9/23, 10:04 PM about:blank
Report
Date Range: 2023-06-06 to 2023-06-06
Status: All
Date Sender Recepient Amount Status
1 Jun 06, 2023 Mahtab Anam Sehnaj Khan 350.00 Shipped
2 Jun 06, 2023 Mahtab Anam Sehnaj Khan 620.00 Collected
3 Jun 06, 2023 Mahbubul Haque Sadia Medha 450.00 In-Transit
4 Jun 06, 2023 Jerin Khan Sehtaj Khan 120.00 Arrived At Destination
5 Jun 06, 2023 Sahin Alam Babar Mia 250.00 Out for Delivery
6 Jun 06, 2023 Sahin Alam Babar Mia 320.00 Ready to Pickup
7 Jun 06, 2023 Sahin Alam Babar Mia 1,200.00 Delivered
8 Jun 06, 2023 Sahin Alam Babar Mia 300.00 Picked-up
9 Jun 06, 2023 Sahin Alam Babar Mia 900.00 Unsuccessfull Delivery Attempt
10 Jun 06, 2023 Sahin Alam Babar Mia 230.00 Item Accepted by Courier
about:blank 1/1
Print 1 page
Destination Save as PDF
Pages All
Layout Portrait
More settings
Save
Cancel

2. Scope of future work:

The future work scope for a courier management system project can involve several areas of improvement and expansion. Here are some potential aspects that can be considered for future enhancements:

- Mobile Application Development.
- Route Optimization.
- Customer Self-Service Features.
- Enhanced Reporting and Analytics.
- Internationalization and Multilingual Support.

3. Conclusion:

System development is also considered as a process backed by engineering approach. We have tried to incorporate & develop new particles for our education particles have been followed not during the coding but also during the analysis, design phases & in documentation.

Courier agency is considered as an expansion of business relations. It contributes a lot by providing quick & fast services of sending documents letters (formal & informal both) to business as it enables any business to flourish.

References:

- http://www.bluedart.com/
- http://www.xamppserver.com/en/
- http://www.php.net/
- http://youtube.com/