Project Report on

COURIER SERVICE

Submitted in Partial Fulfillment of the Requirements for the Degree Of

BACHELOR OF COMPUTER APPLICATION
North Lakhimpur College (Autonomous)
2020

GUIDED BY

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SUBMITTED BY

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BCA 5th semester
DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE OF AUTHENTICITY

This is to certify that the project report entitled "**Courier Service**" submitted to North Lakhimpur College (Autonomous) in partial fulfillment of the requirement for the Minor Project of BCA 5th Semester is an original work carried out by **Madhurya Dutta** enrolment no. **18BC002** under my guidance. The matter embodied in this project is authentic and genuine work done by the student and has not been submitted whether to this university or to any other university/institute for the fulfillment of the requirement of any course.

Signature of Project Guide

Name: Ponjit Borgohain

Signature of the Student

Date:

Name: Madhurya Dutta

Designation: Professor of Computer Science department

Date:

North Lakhimpur College (Autonomous)

North Lakhimpur College (Autonomous)
Estd. 1952
[*Affiliated to Dibrugarh University*]

CERTIFICATE

This is to certify that **Madhurya Dutta** bearing Roll No. **18BC002** Registration No. **18941368** has prepared the project report entitled "**Courier Service**".

The project is the result of his effort and endeavors. The project is found worthy of acceptance for the award of Bachelor of Computer Application. He worked under the supervision and guidance of **Ponjit Borgohain.**

_____

Signature of External
Date:

_____

Signature of Internal
Date:

_____

Signature of HoD

(Ranjit Paul)

Date:

Department of Computer Science

North Lakhimpur College (Autonomous)

<u>DECLARATION</u>

       I do here by, declare that the project report entitled "**Courier Service**" is authentic work developed by me at "North Lakhimpur College" and submitted as BCA 5th Semester minor project work for the course of Bachelor of Computer Application under North Lakhimpur College (Autonomous).

       I also declare that, any or all contents incorporated in this project report has not been submitted earlier either in this University or any other university/institute for any form of award of any degree or diploma.

1.   ————————————

      Signature of the Student

Name: **Madhurya Dutta**

Date:

ACKNOWLEDGEMENT

   With immense pleasure I would like to express my indebtedness to all persons whose support and guidance have helped me to carry out this project. At the very outset, I would like to express our very great appreciation and thanks to our advisor Ponjit Borgohain Professor of Computer Science Department, North Lakhimpur College. You have been a tremendous mentor for me. I would like to thank you for your edifying guidance and support for me in this Project.

   I would also like to thank all the members of Computer Science Department for timely help and inspiration for completion of the project.

Madhurya Dutta

Roll No: 18BC002

BCA 5th Semester

Department of Computer Science,

North Lakhimpur College (Autonomous)

CONTENT

INTRODUCTION

1.1- Purpose of Project:

This project deals with the 'Courier Service". The system is used for daily activities such as booking, non delivery, out return, company details, hubr ates, and pickup centers. It is very difficult to do this process manually. Hence it is recommended to computerize the process by developing the relative software as the world is turning into information and technology; computerization becomes necessity in all walks of life.

1.2- Project Overview:

Module Description:

1. Admin
2. Staff

Admin Module

1. Dashboard: In this section, admin can see all detail in brief like total courier, Total Courier Pickup, Total Shipped, Total In-transit, Total Courier arrived at the destination, Total courier out for delivery and Total delivered courier.

2. Branches: In this section, admin can manage branches(add and update).

3. Staffs: In this section, admin can manage Staffs(add, update and delete).

4. Courier: In this section, admin can view courier status and check the courier detail which is filling by the staff of different branches.

5. Reports: In this section admin can view courier details, courier counts and sales report according to dates.

Admin can also update his profile, change the password and recover the password.

Staff Module

1. Dashboard: In this section, staffs can see all detail in brief like total courier, Total Courier Pickup, Total Shipped, Total In-transit, Total Courier arrived at the destination, Total courier out for delivery and Total delivered courier.

2. Add Courier: In this section, staffs fill the courier detail of parcel.

3. Status: In this section, staffs can view the courier details and them have also right to change courier status according to current status.

4. Search Courier: In this section, staffs can search particular courier with the help of tracking number/reference number.

Staffs can also update his profile, change the password and recover the password.

1.3- Project Profile:

Project title: *"Courier Service"*

Organization involved: North Lakhimpur College (Autonomous)

Platform/Language: PHP

User Interface Design   :   HTML, AJAX,JQUERY,JAVASCRIPT

DBMS: MySql

Web Server: Apache

Guide: Ponjit Buragohain

                                                        Dept. Of Computer Science,

                                                        North Lakhimpur College (Autonomous)

Submitted by: Madhurya Dutta (18BC002)

                                                        BCA 5th semester

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OBJECTIVE AND CHARACTERISTICS

The main objective of the project on Courier Service is to used the sytem for daily activities such as booking, non-delivery, out return, company details, hub rates, and pickup centers. It is very difficult to do this process manually. Hence it is recommended to computerize the process by developing the relative software as the world is turning into information and technology; computerization becomes necessity in all walks of life.

2.1-Scope of the Project:

Courier management computerization is "the incorporate of appropriate technology to help administrator manage information. Technology is considered appropriate, when it utilizes the most abundant domestic resources and conserves capital and skilled personnel". This project deals with the maintenance of booking details, incoming courier details, courier non delivery details and courier return details etc; the main aim of this project is to computerize the maintenance of courier management. It may help collecting perfect management in details in a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Courier System. It will be also reduced the cost of collecting the management and collection procedure will go on smoothly.

It satisfies the user requirement.

It is easy to understand by the staff and the admin.

It is easy to operate.

It has a good user interface.

It is expandable.

It is inexpensive.

Delivered to schedule within the budget.

2.2- **Characteristics of the Project:**

1. User Friendly: Courier Service is a very user friendly project because the Parcel Record searching from categories is very simple, fast and data is secured. The user interface of the project is very simple.

2.Courier reports of the system can be easily generated. User can generate the report of any particular date and period. In this way they can get delivery status of customers and get information about what is being ordered.

3. Very less paper work: Courier Service requires less paper work. In this project all record is fetched directly into the computer and reports can be generated through just a click. In this way it saves time. As data is directly entered into computer so there is no need to do any paper work.

4. Computer operator control: Courier Service is operated by the admin so there is no chance of clerical mistakes. Data feeding and retrieving in this system is very easy. So the work can be done on time.

2.3- **Technology Used:**

Server :   Apache 2.4.41

Front-end: PHP 7.4.3

 Back-end: MySQL 5.5.32 (using phpmyadmin 5.0.1)

 Platform: Windows 10

We have used XAMPP 7.4.3 which is a free and Open Source Cross-Platform Web Server Solution Stack. It comes with Apache Web Server, MySQL Database,.

A couple of advantages of using XAMPP for development are:

1. You can start and stop the whole web server + database stack with one command. 2. XAMPP is portable so you can carry it around on a thumb drive.

3. The security settings are strict by default, nobody but you will be able to access the web server.

 4. PHP error reporting is enabled by default, which helps when debugging scripts.

5. Easy to install.

Apache Server Web server

Apache is an open source server application. There are a lot of benefits and advantages that are provided from the server. Numerous features like the openness, extensibility, portability and flexibility of apache server provide advantages to administrator leading to higher efficiency and utility.

MySQL

MySQL is easy to use, yet extremely powerful, secure, and scalable. And because of its small size and speed, it is the ideal database solution for Web sites.

Some of its advantages include the following:

1. It's easy to use.

2. It's secure.

3. It's inexpensive.

4. It's fast.

5. It's scalable.

6. It manages memory very well.

7. It runs on many operating systems.

8. It supports several development interfaces.

PHP

PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server.PHP code is embedded into the HTML source document. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting and client-side GUI applications. PHP can be deployed on many web servers and operating systems, and can be used with many relational database management systems (RDBMS). It is available free of charge, and the PHP Group provides the complete source code for users to build, customize and extend for their own use.

3.1- Feasibility Study:

A feasibility study aims to objectively and rationally uncover the strengths and weaknesses of an existing business or proposed venture, opportunities and threats present in the environment, the resources required to carry through, and ultimately the prospects for success. In its simplest terms, the two criteria to judge feasibility are cost required and value to be attained. A well-designed feasibility study should provide a historical background of the project, a description of the product or service, accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations. Generally, feasibility studies precede technical development and project implementation. A feasibility study evaluates the project's potential for success; therefore, perceived objectivity is an important factor in the credibility of the study for potential investors and lending institutions. It must therefore be conducted with an objective, unbiased approach to provide information upon which decisions can be based. Preliminary investigation examines project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study In the Courier Management System project, the project can give any kind of information through reports and queries if required. This is very sophisticated to use and modify. The project is designed in such a way that it can afford any changes that occurs in feature .The project can also be modified according to the needs. It is feasible to have an integrated system with GUI and Relational Database for the courier System. The wastage of storage space is avoided by eliminating the data redundancy, which needs careful programming. The careful programming minimizes the processing time. The user can easily handle the system.

3.2- Technical Feasibility :

Technical feasibility: The minimum hardware configuration for his Project to run is as follows: Atom Processor Onwards♣ 512 MB RAM♣ For its execution it is mandatory that it be used with a GUI based Operating System like Windows XP and above. Technical feasibility report: Since the institution already has the required hardware and a supporting Operating System, it is technically feasible. HARDWARE• Intel based processor-run computer system, which have keyboard and mouse as input devices. This has been decided for its case of availability and up-gradation. The various registers maintained at the different department have enough information recording, which will help in digitizing the available data. Technical feasibility centre on the existing computer system (hardware, software) and to what extent it can support the proposed addition. If the budget is a serious constraint, then the project is judged not feasible.

3.3- Behavioural Feasibility :

The project has a very user friendly, GUI based interface also featuring help menu, which leaves no room for any confusion at the user end. There were some errors at the beginning of the project but it all has been taken out. It Was made for the user clean UI programing that means it was made with very simplistic UI (user interface) so the user can understand easily at the very first time. No need for training the user to use the Project. Hence it is operationally feasible. The aim of the system is only to satisfy the information needs; no employees will lose their position by the proposed system. In fact, the proposed system will help the organization in reducing the voluminous work involved. Also the involvement of users in every stage of the project is going to increase the success factor. The staff in not well educated for running a computerized system. They are adamant in perceiving a mechanical process of working as they have long been used to the manual entry system. This aspect needs considerable amount of attention. Our system is also feasible for organization because it supports of the organization and its strategic plan.
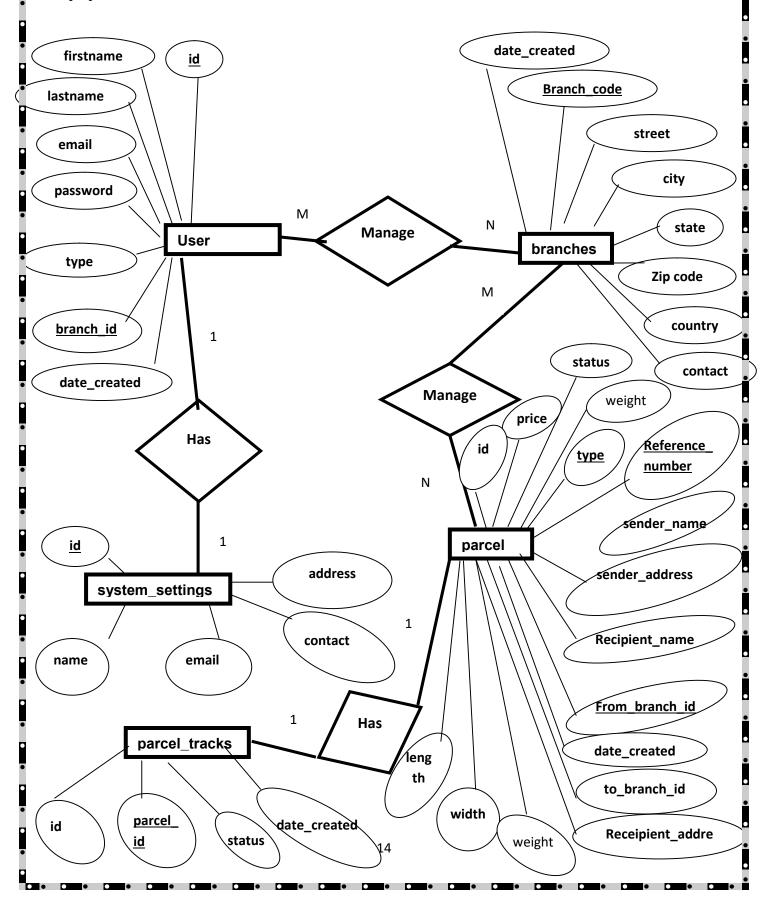
3.4- Economic Feasibility:

The cost of developing this project is merely the man-hours that are put into it, apart from this, on the institutional front the costs that it will be bearing is to comply with the minimum system requirements for the same. Since the institution that will employ this project already has the required facilities, This project is economically feasible. The procedure is to determine the benefits and savings that are expected from a candidate system and compare it with the costs. If a benefit outweighs costs, then the decision is made to design and implement the system. Otherwise further alterations are made in the proposed system 1. Manpower cost 2. Hardware and software cost

4.1- ER Diagram:

The most important consideration is designing the database is how the information will be used. In our project entitled **"Courier Service"** the database contain details and features with their attributes.
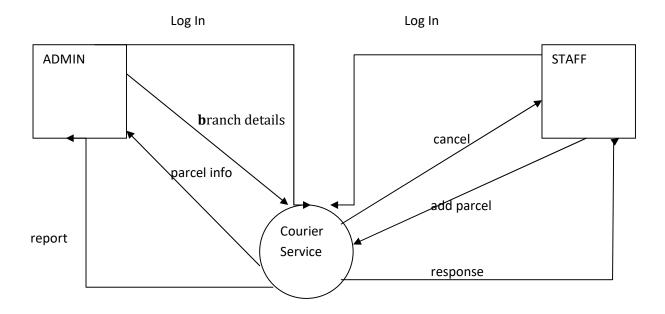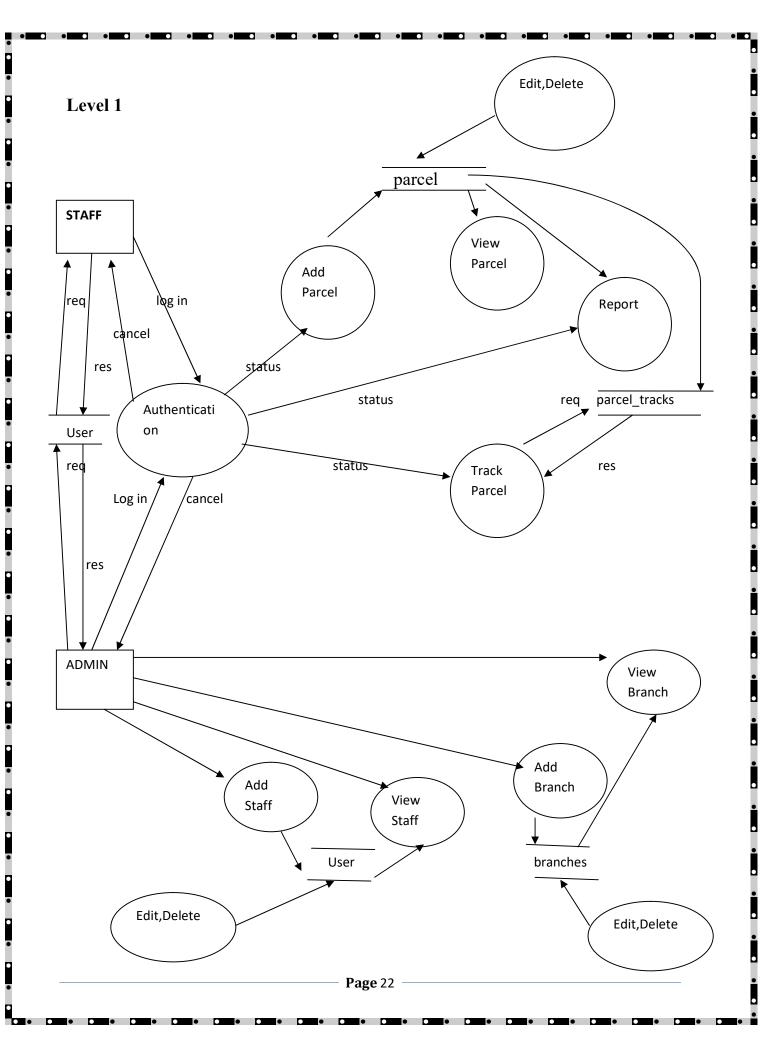
4.2- Relational Model:

id	firstname	lastname	email	password	type	branch_id	date_created

id	date_created	Branch_code	street	city	state	Zip code	country	contact

price	status	type	id	reference_number	sender_name	sender_address	recipient_name	recipient_address	from_branch_id	to_branch_id	weight	height	width	lenght	date_created

Id	parcel_id	status	date_created

Id	name	email	contact	address

4.3-DFD:

Level 0

Log In   Log In

```
ADMIN                                     STAFF
```

branch details

cancel

parcel info

add parcel

report

Courier
Service

response

Level 1

SYSTEM DESIGN

4.1- Product Function:

Features

Admin Side

Login Page: The page where the admin user submits their system credentials to access the admin side of the system.

Home Page: The page where the admin user is being redirected by default after logging into the system. This page displays a summary of the data of the system.

New Branch Page : The page where the admin submits the information of the new branch of the courier company.

List of Braches Page : The page where all the branches of the courier company are listed and managed.

New Branch Staff Page: The page where the system admin creates a new user for the specific branch of the company.

Branch Staff List Page: The page where all of the staff user of the system in all branches are listed and managed.

Both User

New Parcel Page: The page where can system users submit the information of the parcels such as the sender and recipient details.

Parcel List Page: The where the parcels are listed and managed.

Track Parcel Page: The page that displays the movement of the client's packages or parcels.

Report Page: The page where the printable list of transaction of the courier company with the clients are listed.
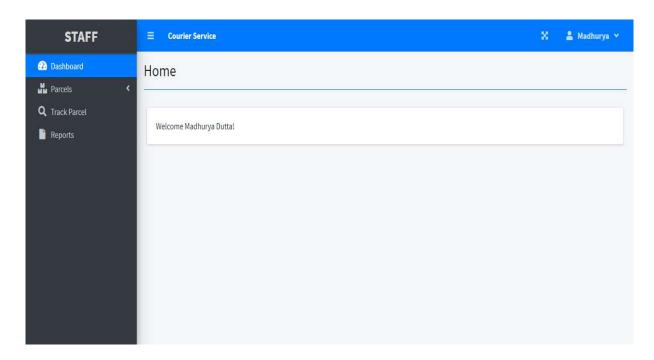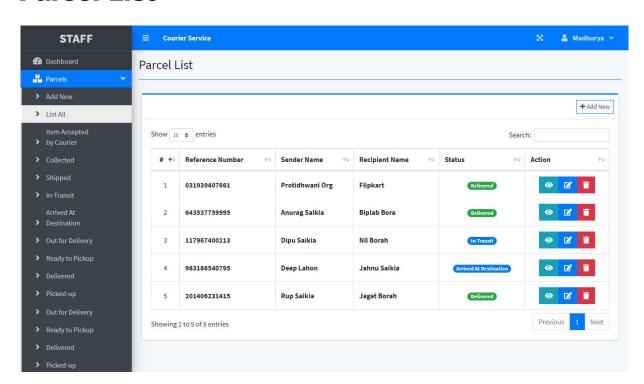
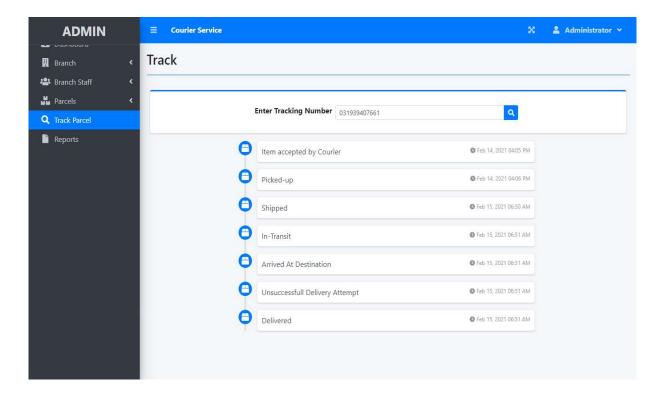## 4.1- Project Preview:
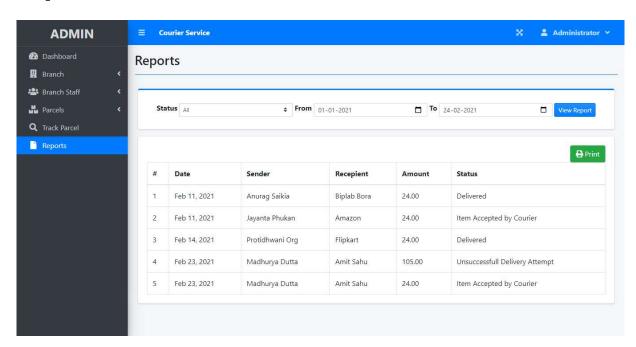
Log In Page

Admin Dashboard

Staff Dashboard

Parcel List
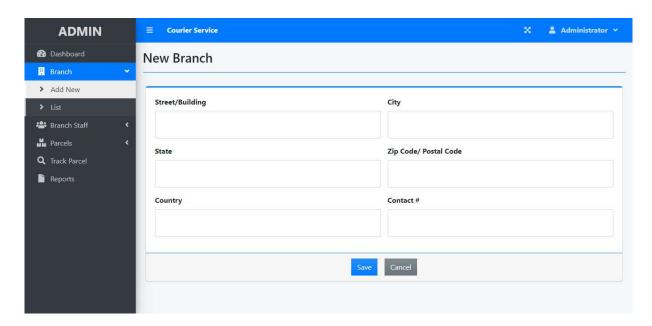
Parcel Track

Reports

Add New Branch

Add New Staff

Add New Parcel

Parcel Details

Websites:

- www.w3school.com (21 Feb 2021)
- www.webdevloper.com (21 Feb 2021)
- www.youtube.com (21 Feb 2021)