VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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A Mini Project Report on

"COURIER MANAGEMENT SYSTEM"

Submitted in the partial fulfillment for the requirements for the conferment of degree of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING

Submitted By

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2022-2023

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CERTIFICATE

This is to certify that the Mini Project work entitled **"COURIER MANAGEMENT SYSTEM"** is a bonafide work has been carried out by **Mr. AMITH R (1BY20CS020) and Mr. SUHAS J M (1BY20CS068), bonafide students of BMS Institute of Technology and Management, Autonomous Institute Affiliated to VTU,** in partial fulfillment for the award of **Bachelor of Engineering Degree in Department of Computer Science and Engineering** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in this report. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini project work for the B.E Degree.

Signature of the Guide1	Signature of the Guide2	Signature of the HOD
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Assistant Professor	Assistant Professor	Professor & HOD
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Name of the Examiners **Signature with Date**

1.

2.

ABSTRACT

This **Courier Database Management System** Project will have different modules. The login section will have a 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 their address, name, and mobile number. Through the tracking id, customers or its recipient will able to track their products from any location using the internet. It will provide the status of the product after placing orders within 1 minute.

The admin can manipulate the data through the admin login page and add any new consignment if required. The profile section shows the data of the user and the pricing section of the project shows the price that will be charged for the consignment according to the weight categories.

ACKNOWLEDGEMENT

We are happy to present this Mini project after completing it successfully. This project would not have been possible without the guidance, assistance and suggestions of many individuals. I would like to express my deep sense of gratitude and indebtedness to each and every one who has helped me to make this project a success.

We heartily thank our **Principal, Dr. MOHAN BABU G N, BMS Institute of Technology & Management, Autonomous Institute Affiliated to VTU** for his constant encouragement and inspiration in taking up this Mini project.

We heartily thank our **Head of the Department, Dr. Thippeswamy .G, Dept. of Computer Science and Engineering, BMS Institute of Technology & Management, Autonomous Institute Affiliated to VTU** for his constant encouragement and inspiration in taking up this Mini project.

We gracefully thank our Project guide**, Mr. Jagadish P, Assistant Professor, Dept. of Computer Science and Engineering,** for his encouragement and advice throughout the course of the Mini Project work.

Special thanks to all the staff members of Computer Science Department for their help and kind co-operation.

Lastly, we thank our parents and friends for their encouragement and support given to me in order to finish this Mini Project work.

By,

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CHAPTER 1

INTRODUCTION

Ecommerce is growing at a rapid pace, and it's making parcel delivery a major concern for companies of all sizes. Large corporations and small businesses alike are wading into the waters of in-house delivery to reduce shipping costs and maintain control over their customer experience.

In-house courier delivery can be extremely beneficial if you do it well. You'd be hard-pressed to find a third-party courier service that cares more about *your* products and *your* customers than you do. But there's a lot to consider when running your own delivery operation.

To conquer courier management, you need a solid understanding of the basics, a handy guide for spotting areas that need improvement, and easy-to-use software—a robust courier management system.

What Is Courier Management?

Courier management is the process of organizing last-mile delivery operations. Courier management involves scheduling order deliveries and assigning them to couriers, overseeing operations, planning and optimizing routes, overseeing vehicles, managing fuel, and handling courier expense approvals.

The 3 Objectives of Courier Management

There are three main objectives of courier management:

1. Deliver products to customers.
2. Support the couriers in delivering those products.
3. Ensure that customers have a great buying experience, so they come back for more.

CHAPTER 1

1.1 Background

- **Introduction:-**

The success of our delivery business hinges on getting orders to customers on time and undamaged. The faster and more efficiently you execute deliveries, the higher your earning potential. This is what it means to deliver products quickly and efficiently:

1. Transport products safely.
2. Consistently meet or surpass due dates and times.
3. Drive efficiently.

- **Purpose:-**

A courier service delivers products. The vast majority of the products handled by courier services are meant to be delivered to customers by various businesses. However, legal entities and individuals can also send objects between them

- **Scope:-**

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute or organization. But later on the project can be modified to operate it online.

Feasibility Study:

1) Technical Feasibility:

Technical feasibility is concerned with the availability of hardware and software required for the development of the system, to see the compatibility and maturity of the technology proposed to be used, and to see the availability of the required technical manpower to develop the system. After the study, we came to the conclusion that we proceed further with the tools and development environment chosen by us. This was important in our case as we were working on two various phases of the department that will need to be integrated in the future to make an extended system.

2) Operational Feasibility:

Operational feasibility is all about problems that may arise during operations. There are two aspectsrelated to this issue:

- What is the probability that the solution developed may not be put to use or may not work?
- What is the inclination of the management and end users towards the solution? Though there is the very least possibility of management being averse to the solution, there is a significant probability that the end users may not be interested in using the solution due to a lack of training, insight etc.

3) Economic Feasibility:

It is the measure of the cost-effectiveness of the project. The economic feasibility is nothing but judging whether the possible benefit of solving the problems is worthwhile or not. At the feasibility study level, it is impossible to estimate the cost because members' requirements and alternative solutions have not been identified at this stage. However, when the specific requirements and solutions have been identified, the analyst weighs the cost and benefits of all solutions, this is called "cost-benefit analysis.

CHAPTER 2

LITERATURE SURVEY

2.1 International Research Journal of Modernization in Engineering Technology and Science (Peer-Reviewed, Open Access, Fully Refereed International Journal) Volume:04/Issue:05/May-2022 Impact Factor- 6.752 www.irjmets.com www.irjmets.com @International Research Journal of Modernization in Engineering, Technology and Science [3896] COURIER MANAGEMENT SYSTEM

- The ordering system paper tackled a similar project but it was not able to finish and confirm the order, as they lacked the payment
- Menu Service Management paper only was able to generate a real-time menu of the items available but unable to place Detail About Branches and Their Staff.
- Order Courier Management paper, this paper could only help the user to Add Details about Branches And Their Staff but is unable to process it to the merchant.
- Server based system – They implemented the project but with the drawback of payment only through cash on delivery.
- Branch who provide courier service Not for direct to customer it goes through a branch .
- It is a one type of small module which is include in any type of Courier System and also our web application content is able to use for any other Online Service Management.
- Where they wants to add any distrubuter of their company on their system to register themselves Online Service Management System.
- Users can search courier by Tracing.
- Users can view the courier details.
- Admin can manage the customer and Courier packet
- We also conducted a survey where we asked the Service Management about the current system, they gave us an idea if we could device a system keep a digital record of the shoppers and their order history which might facilitate the merchandiser predict the long run sales of food things.

2.2 Online Courier Management System S. Ammulu 1 , K.Madhu Sudhan Reddy 2 1Department of MCA, Srikalahastiswara Institute of Information and Management Sciences, Kapugunneri (Affiliated to S.V.University, Tirupati) 2 Assistant Professor, Department of MCA, Srikalahastiswara Institute of Information and Management Sciences, Kapugunneri(Affiliated to S.V.University, Tirupati)

As per our client requirement, our main object should be managing consignment in an effective manner. The Proposed System is eliminating all problem of the existing system and automates all process in hightech. It should keep record of customer booking and delivery details and so on can be proficient without much effort the success criteria depend on The accuracy in calculating the bill for each consignment. The accuracy in predicting the time required to reach the destination. User interface simplicity and userfriendliness. The system will be used for day to day activities like out return, company details, hub rates, booking, and non-delivery and pickup centers. It is not easy to do this process manually because it would become very hectic.

CHAPTER 3

SOFTWARE REQUIREMENTS SPECIFICATION

3.1 HARDWARE REQUIREMENTS (Minimum Requirement)

Minimum RAM:- 1GB

Hard Disk:- 128 GB

Processor:- Intel Pentium 4(1.50 GHZ) or above

3.2 SOFTWARE REQUIREMENTS (minimum Requirement)

Operating system : Windows XP

Front_Design: VB.Net version 10.0 ,.NET framework 4.0

Front-End Language : Visual basic

Back-End : Oracle 10g

Back-End Connectivity: ADO.net

CHAPTER 4

DESIGN

4.1 Schema Design

ADLOGIN:

Email	Password	Aid (FK)

ADMIN:

Aid (PK)	Email	Name	Phone

LOGIN:

Email	Password	Uid (FK)

USER:

Uid (PK)	Name	Email	Phone	Aid (FK)

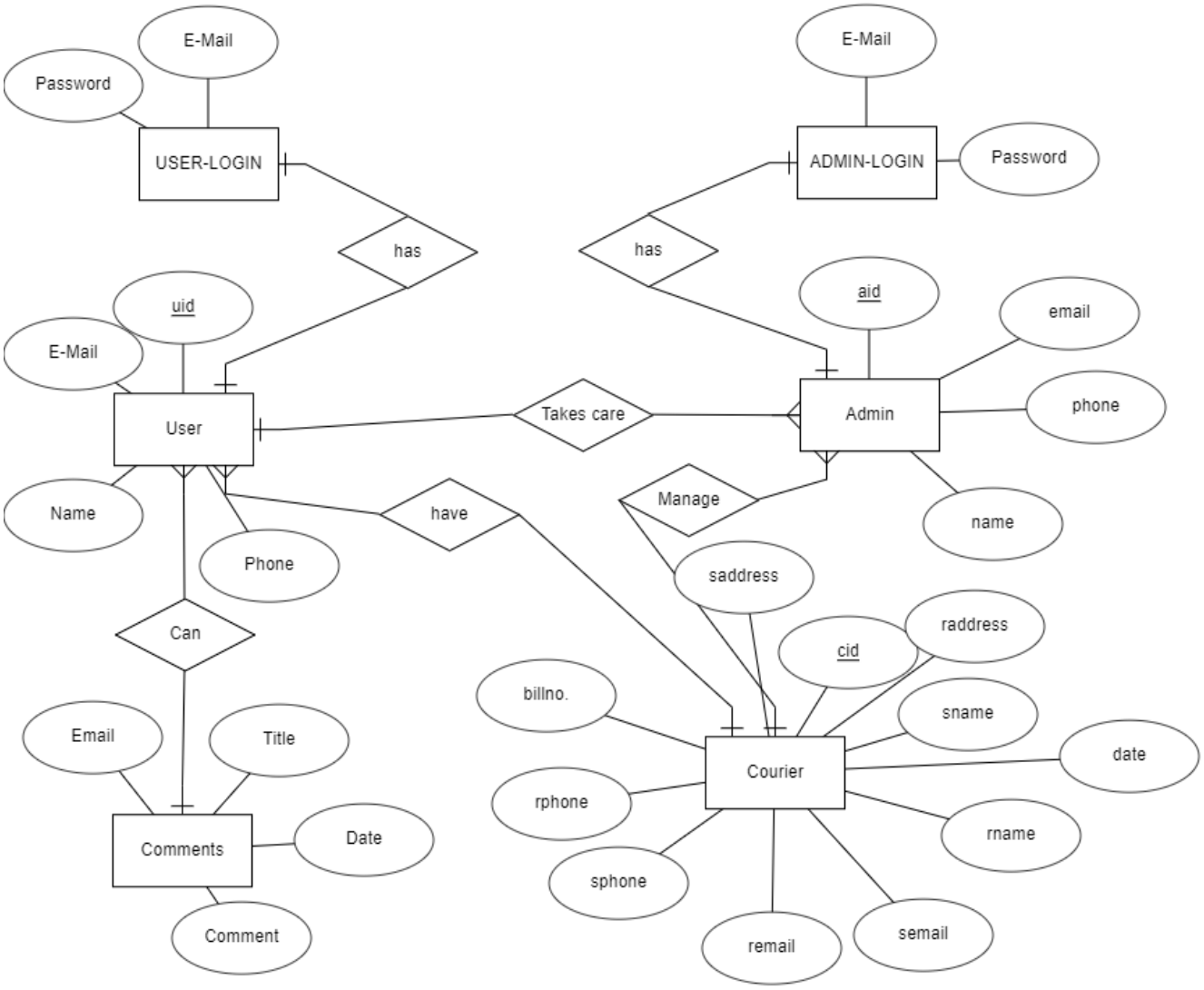
COURIER:

cid (PK)	sname	rname	semail	remail	addr	phone	billno	date	Uid (FK)	Aid (FK)

COMMENTS:

Email	Title	Comment	Date	uid (FK)

4.2 Entity Relationship Diagram



CHAPTER 5

IMPLEMENTATION

Fig 5.1: Initial Login Page for Courier Management System

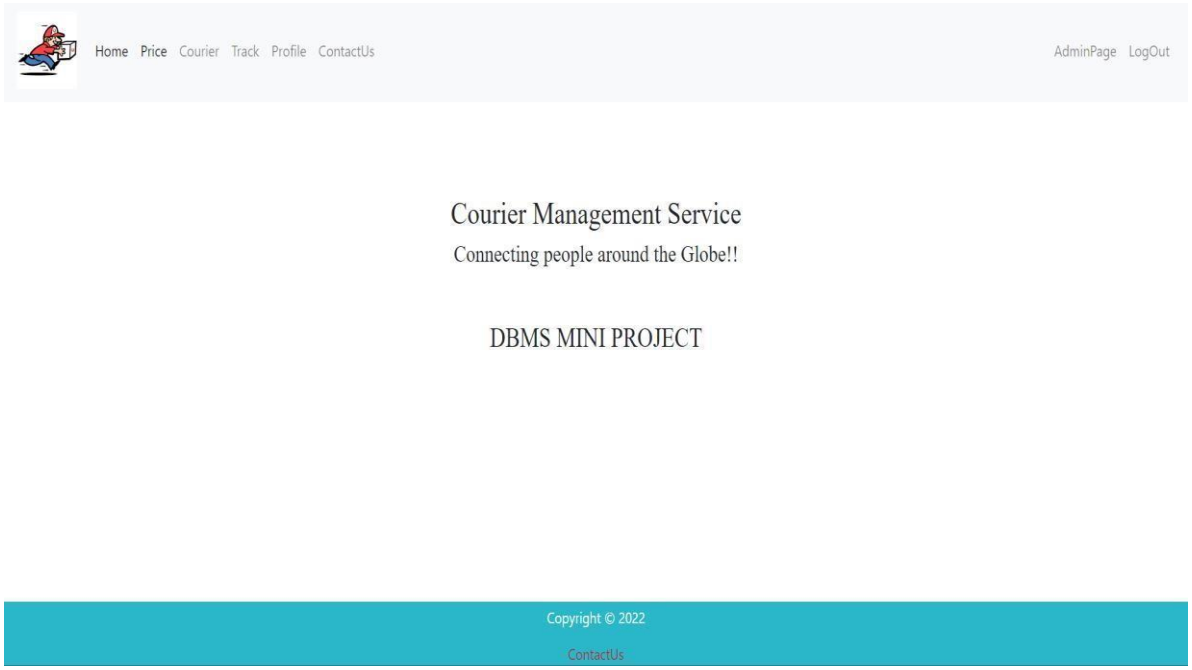


Fig 5.2: Home Page

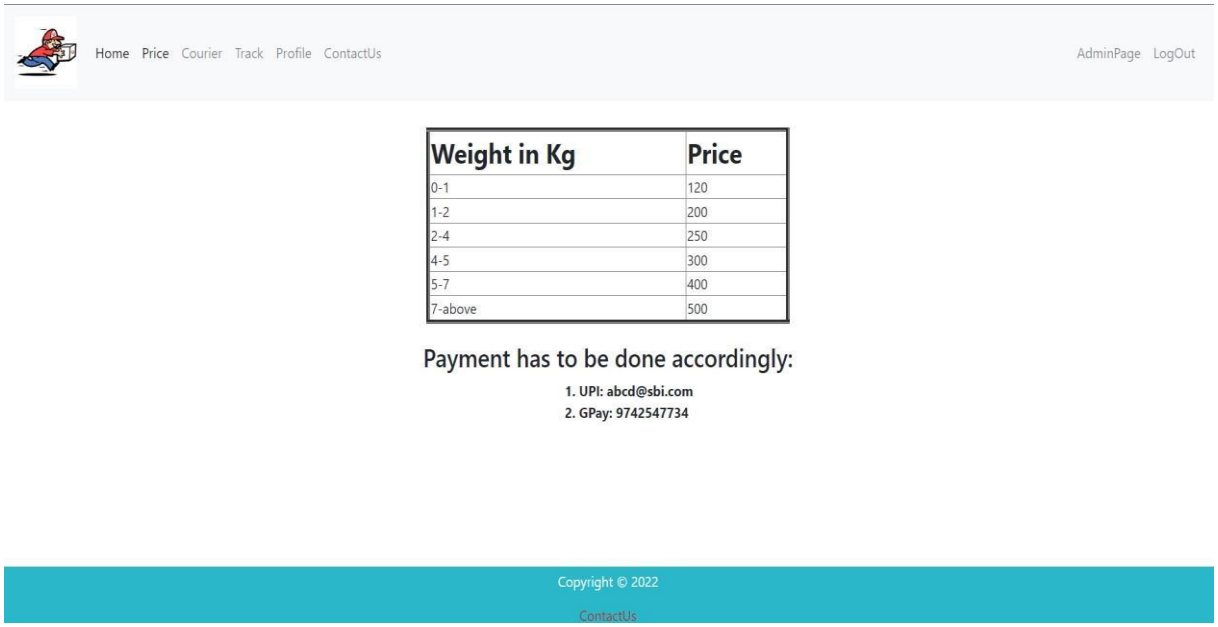


Fig 5.3 : Pricing

Fig 5.4 : Courier Form Page

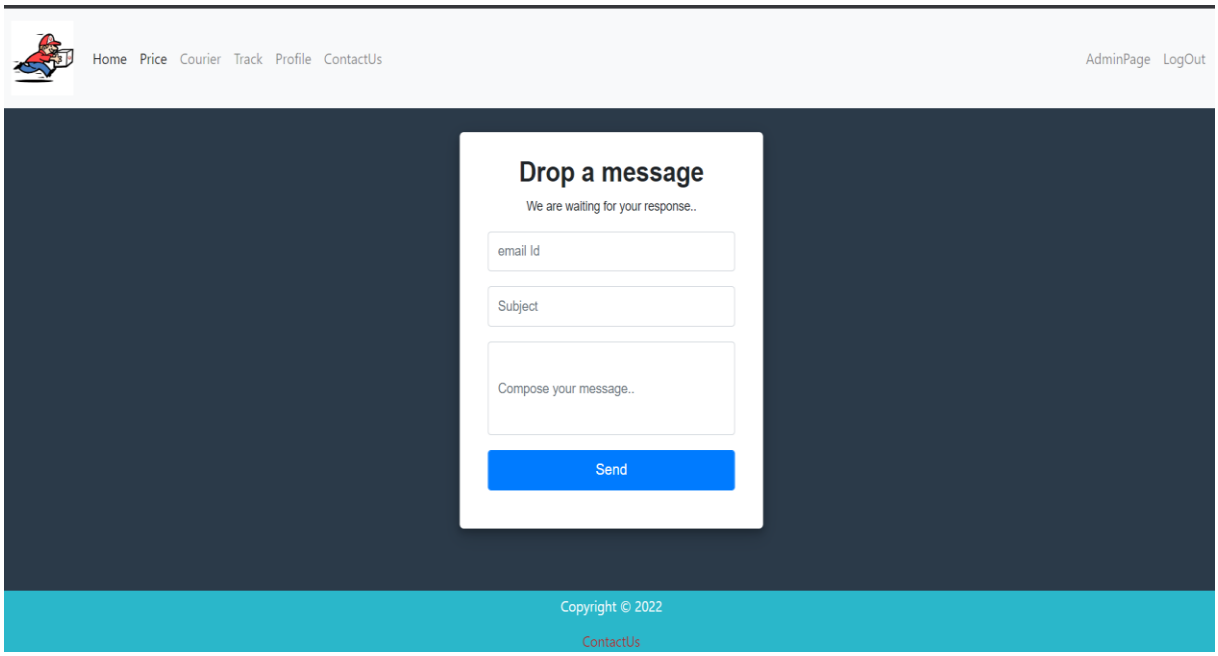


Fig 5.5 : Comment Page

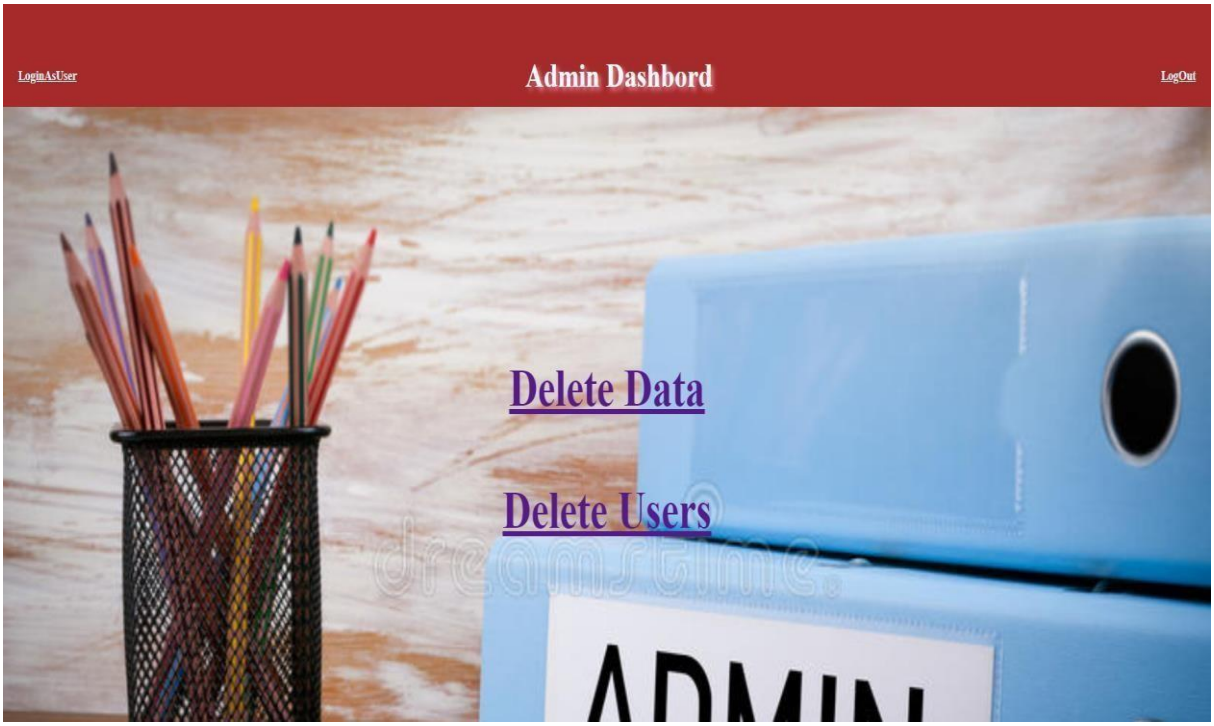


Fig 5.6 : Admin Dashboard

CHAPTER 6

CONCLUSION

The main aim of this system was to put what we learnt in our software engineering class into practice. The Courier Management system designated to our team allowed us to fully exercise the techniques of Windows.

We were able to attain our set objectives, and this helped us again confidence in writing our own code and our own applications. In addition, the use of serialization was an experimentation to cut down the time taken in designing.

The front-ends and back-ends of applications separately. With our OOP approach and serialization, we only concentrated on designing the objects/classes, and then just serialized them on disk. So, we did not spend any time on designing how to store data.

We also worked as a team, and gained some experience on how professional programmers work in the industry.

This system overcome many limitations incorporated in attendance, this system saves a great amount of time and reduces errors which may occur during attendance calculation.

The system I have developed is fully responsive which can be used in mobile, tablets and in various Different operating systems. Some other benefits are,

- Automated and web-based for easy accessibility
- It is a dynamic and flexible system
- It is very user friendly and handy
- The records of current and previous records are available.

CHAPTER 7

Future Enhancements

Benefit to Organization

The organization will obviously be able to gain benefits such as savings in operating costs, reduction in paperwork, better utilization of human resources, and a more presentable image increasing goodwill. The other benefits are improved service and faster and better access to up-to-date information.

The Initial Cost

The initial cost of setting up the system will include the cost of hardware (server/clients, network adapter, and related hardware), software (server OS, add-on software, utilities) & labor (setup & maintenance). The same has to be bear by the organization.

Need for Training

The users along with the administrator need to be trained at the time of implementation of the system for the smooth running of the system. The client will provide the training site

REFERENCES

[1] Aaron (2008). " Relevance of courier services" Tamaza Publishing Co. Ltd., Zaria-Nigeria.

[2] Carola (2012)."Building the Business Case for e- Delivery," Retrieved on September 22, 2013, from www.elearningguild.com.

[3] Collins English Dictionary - Complete &Unabridged 10th Edition 2009 © William Collins Sons &Co.Ltd.

[4] McGuigan (2013)."Messengers in the County ofArtois, 1295-1329". Canadian Journal of History 25 (2): 163–175.

[5] Dictionary.com Unabridged Based on the Random House Dictionary, © Random House, Inc. 2013.

[6] http://www.parcelperfect.com/resources/the-festive-season-parcel.html.Retrieved 2012-10-09