COURIER MANAGEMENT SYSTEM

## A Project Report Submitted

**in Partial Fulfillment of the Requirements for the Degree of**

MASTER OF COMPUTER APPLICATION

**By**

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# DECLARATION

We hereby declare that the work presented in this report entitled **“Courier Management System"**, was carried out by us. We have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University or Institute.

We have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, experiments, results, that are not my original contribution. We have used quotation marks to identify verbatim sentences and given credit to the original authors/sources.

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**Harshika Srivastava** (1900290140015)

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to carry out this Project work.

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**Harshika Srivastava**

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**Training Certificate**

# CERTIFICATE

Certified that **Harshika Srivastava ( 1900290140015 )** have carried out the project work having **“Courier Management System”** for Master of Computer Applications from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Technical University, Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself/herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

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# ABSTRACT

This project deals with the ‘Courier Management System’. The system is used for daily activities such as booking, Booking history, staff details, Branch details 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.

Nowadays, people are very busy, and they don’t find much time to go to a dealer to get products. But they need to buy products. And most of the people are accessing Internet. This Courier Management System Project will provide information recipient with following details:- where the current consignment is, till when it will reached its final destination, if any delay then reason of the delay, the route of current consignment, date of placing consignment, final date to reach its destination

Then why don’t we help them in searching & getting products online. Of course this is helpful for company & dealer also to improve the sales. This Courier Management System Project will provide information recipient with following details:- where the current consignment is, till when it will reached its final destination, if any delay then reason of the delay, the route of current consignment, date of placing consignment, final date to reach its destination.

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# CHAPTER 1

## INTRODUCTION

* 1. **PROBLEM STATEMENT**

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 is placing the orders and all the details for the recipient such as its address, name, 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 1 minute.

This Courier Management System Project will provide information recipient with following details:- where the current consignment is, till when it will reached its final destination, if any delay then reason of the delay, the route of current consignment, date of placing consignment, final date to reach its destination.

When the consignment will visit to the city office of destination, a message will be send to the recipient with delivery status confirmation. Then after getting this message its recipient can take its parcels by using their Track Id. When its recipient will receive their parcels, then this Track Id will be deleted automatically from the system database after 1 week by sending final confirmation message to its recipient mobile number which will include information of Track Id, date of receiving and time along with greeting message for providing further service in future.

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. But they cannot get all the things at nearest market or area, so they have to import the things from any place in the world.

## PROJECT BACKGROUND

The system will be used for day-to-day activities like out return, company details, hub rates, booking, non-delivery, and pickup centers. It is not easy to do this process manually because it would become very hectic. Hence it is suggested to automate the process by developing the relevant software as the world is moving from manual working to an information and technology era where automation becomes important in all parts of life.

The main purpose of this system is to connect all branches to the central database so the everywhere information is the same. This system increases efficiency and increases the customer satisfaction level.

People when transfer their products using any courier service wants to know whether their product has been shifted to their right place or not, if not then by what time it will be shifted and where it is now. Taking all this information manually is very difficult and time taking process. To handle all these activities include various processes and paper work from the management.

## OBJECTIVE

In this world of growing technologies everything has been computerized. With large number of works opportunities, the Human workforce has increased. Thus, there is a need of a system which can handle the data of such a large number of Couriers. This project simplifies the task of maintaining records because of its user-friendly nature. The objective of this project is to provide a comprehensive approach towards the management of courier information. This will be done by designing and implementing as Courier Management System that will bring up a major paradigm shift in the way that courier information is handled. The objectives of this system include Design of a web based project to fulfill requirements such as project

* + - Easy to maintain records in computer system of the courier service computation of the rate is easily & quickly done.
    - Well-designed database to store courier information.
    - A user friendly front-end for the user to interact with the system.

## SCOPE

The scope of this project will be limited to the following: Employee profiles:

* Employees will have access to their personal profiles and will be able to edit their details. Electronic leave application
* Complete elimination of paperwork in leave management by enabling an employee for leave as well as check their leave status through the system. This will also enable the HR manager to accept/reject leave application through the system Project Management.
* Assign tasks and projects to employees, assign a project team and keep track of the progress. Report generation.
* The HR manager will be able to generate timely reports in order to monitor employees and this can be used for performance appraisals. The reports will have all the information of an employee from educational background, trainings attended, and projects done well as technical skills.
* The admin will add an employee and a default password and employee id will be generated and sent to the new employee’s email. The HR manager will then have the ability to add an employee’s information to the database.

## EXPECTED BENEFITS

This system is expected to be user friendly and will offer easy access to data as well as services such as online leave management, e-recruitment, and timely report generation, monitoring employee trainings, task management, project management and employee tracking. The employee is expected to have direct interaction with this system through a password protected user account therefore proposed system is web based to enable accessibility from any location as long as internet connectivity is available. This direct interaction with the system will enable employee self-service. Without an employee management system, it’s a tedious job for the human resource department to keep track of each employee and even harder for a project manager to assign tasks to the project team. The Office Collaborator will be developed to provide information of employees and many other facilities at the click of a button.

## REQUIREMENTS AND CONSTRAINTS

* + 1. **FUNTIONAL REQUIREMENTS:**

**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 destination, Total courier out for delivery and Total delivered courier.

1. **Branches:** In this section admin can manage branches (add and update).
2. **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 staff of different branches.

**5.Reports:** In this section admin can view courier details, courier counts and sales

report according to dates.

## 1.5.2 NON FUNCTIOBAL REQUIREMENTS:

* + - User friendly: The system should be user friendly so that it can easily be understand by the user without any difficulty.
    - Ease of maintenance: System should be easy to maintain and use.
    - Less time consuming: The system should be less time consuming which could be achieved by good programming.
    - Error free: The system should easily handle the user error in any case.
    - Static: Application runs on standalone machine. Support only single user.

# CHAPTER 2

# LITERATURE REVIEW

**2.1 JS Optimizer: An Extensible Framework for JavaScript Program Optimization**

JavaScript has become a popular programming language. It is widely used in both client-side and server-side programming in web applications. The robustness and performance of JavaScript programs become vital. Unfortunately, real-world JavaScript programs often suffer from various issues. In this work, we present nine issue patterns derived from open-source projects and propose a general static analysis framework, JSOptimizer, to help detect such patterns of issues and optimize the code accordingly. Comparing to existing work, JSOptimizer is not only highly extensible but also performs code optimizations automatically. We applied JS Optimizer to seven real open-source JavaScript projects and five bugs detected by it have been confirmed by developers. Besides, we conducted a case study based on a popular project and found that addressing the issues detected by our framework can speed up the original project by over 300%. This shows the usefulness of JS Optimizer.

**2.2 Javascript ahead-of-time compilation for embedded web platform**

Web applications (apps) programmed using HTML, CSS, and JavaScript have advantages in portability and productivity, compared to Android or IOS apps. However, web apps are involved with some performance issue, due to JavaScript with its dynamic typing and prototypes which are difficult to execute efficiently. One popular way of accelerating JavaScript is using the just-in-time compilation (JITC), which translates the JavaScript source code to the machine code at runtime. Unfortunately, JavaScript JITC for web apps suffers from the parsing and compilation overhead seriously, which offsets the performance gain of executing the compiled code. In this paper, we propose ahead-of-time compilation (AOTC) of JavaScript at the client device. We save the code generated by the JITC at the first run of the web app, so that we can reuse the code in the next runs to remove the parsing and the compilation overhead.

**2.3 Modern JavaScript frameworks: A Survey Study**

With the increasing popularity of the web, some new web technologies emerged and introduced dynamics to web applications, in comparison to HTML, as a static programming language. JavaScript is the language that provided a dynamic web site which actively communicates with users. JavaScript is used in today's web applications as a client script language and on the server side. The JavaScript language supports the Model View Controller (MVC) architecture that maintains a readable code and clearly separates parts of the program code. The topic of this research is to compare the popular JavaScript frameworks: AngularJS, Ember, Knockout, Backbone. All four frameworks are based on MVC or similar architecture. In this paper, the advantages and disadvantages of each framework, the impact on application speed, the ways of testing such JS applications and ways to improve code security are presented.

**2.4 Integration of HTML pages in Web Pages**

The growing number of Web pages on the Internet introduces a need to combine and integrate information from HTML tables of different Web pages that contain similar information into a single Web page, especially information from the same domain of interest. This paper presents an approach of HTML table integration by combining several existing methods that are proved to solve different issues in the integration processes. The integration of HTML table consists of three phases: (1) extraction of the structure of the tables; (2) integration of the tables' schema; (3) integration of the data values. To solve the conflicts in semantics and naming in the tables schema, domain-ontology is used.

**2.5 Extracting Elements of HTML Documents**

Information on the Web, which are conglomeration of heterogeneous data, such as texts, images and audio clips, are often accessed through documents written according to the HTML specification. According to the HTML specification, HTML documents are semistructured in nature. We propose a high-level stack machine (HSM) which accesses an HTML document through its URL and constructs a semistructured data graph (SDG) of the document. The SDG of an HTML document H precisely captures the structure of the semistructured data embedded in H based on the dependency relationship among the data objects in H. HSM is configurable to accommodate a user's interest with respect to the HTML elements in H to be considered during the construction process of the SDG of H.

**2.6 A Webpage Data Hiding Method by Using Tag and CSS**

**Attribute Settings**

Computer networks connection becomes the most important way for people to contact each other, share information, and transmit privacy data. Because the Internet is not secure enough, data hiding techniques provide a good manner to deliver secret data with security. HTML webpage not only can be used to advertise a company's product but also used to share someone experience or knowledge. The HTML file is different from a digital image because it is composed of tags but pixels. CSS provides more options and assistance to help HTML file coding to create colorful web pages. The proposed method utilizes both HTML and CSS's properties to achieve the goal of secret data delivery. The experimental results indicate that the proposed method has a larger embedding capacity than others.

**2.7 High performance PL/SQL programming**

Performance engineering is a vital aspect in PL/SQL programming, as most of the Database associated applications are built with PL/SQL Code. There subsists many ways of writing PL/SQL statement to retrieve same result set, but the approach which levies minimum impact on DBMS engine is always esteemed. Most commercial transaction scripts are written using PL/SQL code. The proposed idea(s) are envisioned to oblige as tuning utility and benchmark for tuning PL/SQL queries. This paper enunciates different techniques that can reduce time and space complexity of a native SQL query and PL/SQL script. Our analysis reduced the rate of Context switching (an overhead) among SQL engine and PL/SQL engine.

**2.8 On the IO Characteristics of the SQLite Transactions**

This work is dedicated to study the IO characteristics of SQLite transaction in Android platform. We collect the block level IO trace from for six months. We develop an elaborate pattern matching algorithm. It allows us to identify the individual SQLite transactions from the raw IO trace, which is essentially an interleaved mixture of IO requests from concurrently running smartphone applications. Among the various observations obtained from the study, we can summarize the key findings as follows. We carefully believe that these deserve special attention. First, SQLite transaction is under extreme inefficiency. In an SQLite transaction, the IO's for SQLite journaling and EXT4 file system journaling account for over 75% of the entire IO volume in a transaction. Second, the suspend and the wakeup feature of the smartphone can leave the SQLite transaction to an extreme delay, a few minutes.

# CHAPTER 3

**FEASIBILITY STUDY OF THE PROJECT**

## 3.1. FEASIBILITY STUDY:

The feasibility of the system is an important aspect, which is to be considered. The system needs to satisfy the law of economics, which states that the maximum output should be yielded in the minimum available resources.

A feasibility analysis evaluates the project’s potential for success; therefore, perceived objectivity is an essential factor in the credibility of the study for potential investors and lending institutions. There are five types of feasibility study separate areas that a feasibility study examines, described below.

## Technical Feasibility

This assessment focuses on the technical resources available to the organization. It helps organizations determine whether the technical resources meet capacity and whether the technical team can convert the ideas into working systems. Technical feasibility also involves the evaluation of the hardware, software, and other technical requirements of the proposed system. As an exaggerated example, an organization wouldn’t want to try to put Star Trek’s transporters in their building currently, this project is not technically feasible.

This assessment typically involves a cost/ benefits analysis of the project, helping organizations determine the viability, cost, and benefits associated with a project before financial resources are allocated. It also serves as independent project assessment and enhances project credibility helping decision-makers determine the positive economic benefits to the organization that the proposed project will provide.

This assessment investigates whether any aspect of the proposed project conflicts with legal requirements like zoning laws, data protection acts or social media laws. Let’s say an organization wants to construct a new office building in a specific location. A feasibility study might reveal the organization’s ideal location isn’t zoned for that type of business That organization has just saved considerable time and effort by learning that their project was not feasible right from the beginning.

This assessment involves undertaking a study to analyze and determine whether and how well the organization’s needs can be met by completing the project. Operational feasibility studies also examine how a project plan satisfies the requirements identified in the requirements analysis phase of system development.

This assessment is the most important for project success; after all, a project will fail if not completed on time. In scheduling feasibility, an organization estimates how much time the project will take to complete.

When these areas have all been examined, the feasibility analysis helps identify any constraints the proposed project may face, including:

* Internal Project Constraints: Technical, Technology, Budget, Resource, etc.
* Internal Corporate Constraints: Financial, Marketing, Export, etc.
* External Constraints: Logistics, Environment, Laws, and Regulations, etc.

## MAIN ASPECTS

There are three aspects of feasibility to be considered namely.

1. Technical
2. Operational
3. Economical

In the technical aspects one may consider the hardware equipment for the installation of the software. The system being centralized will required very little hardware appliances. Hence this helps the system to work smoothly with limited amount of working capitals.

In the operational aspects may think of the benefits of the workload that many a personal may have to share. This is eased out and the required output may be retrieved in a very short time. Thus, there is accuracy in the work on time is also saved there will be very little work that needs to be performed.

Economical system is definitely feasible because the software requirement is less and the operational working for the system requires less number of recruits. This help introduction over- staffing and wastage funds.

We studied on the position to evaluate solution. Most important factors in this study were tending to overlook the confusion inherent in Application Development the constraints and the assumed studies. It can be started that it the feasibility study is to serve as a decision document it must answer three key questions.

1. Is there a new and better way to do the job that will benefit the user?
2. What are the costs and savings of the alternatives?
3. What is recommended?

## TECHNICAL FEASIABILTY:

This centers on the existing computer system (hardware, software etc.) and to what extent it can support the proposed additional equipment .in this stage of study, we have collected information about technical tools available by which I could decide my system design as the technical requirements.

## OPERATION FEASIBILITY:

In this stage of study, we have checked the staff availability. I concentrate on knowledge of end users that are going to use the system. This is also called as behavioral feasibility in which I have studied on following aspects; people are inherently resistant to change, and computers have been known to facilitate change. An estimate has been made to how strong a reaction the user staff is having toward the development of a computerized system. It is common knowledge that computer installations have something to do with turnover. I had explained that there is need to educate and train the staff on new ways of conducting business.

## ECONOMICAL FEASIABILITY:

Economic analysis is the most frequently used method for evaluating the effectiveness of candidate system. More commonly known as cost\benefit analysis, the procedure is to determine the benefits and savings that benefits outweigh costs. The decision was to design and implement system because it is for having chanced to be approved. This is an ongoing effort that improves the accuracy at each phase of the system life cycle.

In developing cost estimates for a system, I need to consider several cost elements. Among these is hardware personal facility. Operating and supply costs.

## 3.3. BENEFITS

Benefits of conducting a feasibility study:

* + - Improves project teams focus
    - Identifies new opportunities
    - Provides valuable information for a “go/no-go” decision
    - Narrows the business alternatives
    - Identifies a valid reason to undertake the project.

## 3.4. SYSTEM REQUIREMENT SPECIFICATION

Any system can be designed after specifies the requirement of the user about that system. For this first gathered information from user by the preliminary investigation which is starting investigation about user requirement.

The data that the analysts collect during preliminary investigation are gathered through the various preliminary methods.

## Documents Reviewing Organization

The analysts conducting the investigation first learn the organization involved in or affected by the project. Analysts can get some details by examining organization charts and studying written operating procedures.

* + - 1. Collected data is usually of the current operating procedure:
* The information relating to clients, projects and students and the relationship between them was held manually.
* Managing of follow-ups was through manual forms.
* Complaints require another tedious work to maintain and solve.
* Payments details had to be maintained differently.
  + - 1. Gathering Information by Asking Questions

Interviewing is the most used techniques in analysis. It is always necessary first to approach someone and ask them what their problems are, and later to discuss with them the result of your analysis.

* + - 1. Questionnaires

Questionnaires provide an alternative to interviews for finding out information about a system. Questionnaires are made up of questions about information sought by analyst. The questionnaire is then sent to the user, and the analyst analyzes the replies.

* + - 1. Electronic Data Gathering

Electronic communication systems are increasingly being used to gather information. Thus, it is possible to use electronic mail to broadcast a question to several users in an organization to obtain their viewpoint on a particular issue.

In my project, with the help of Marg software solutions, I have send questionnaire through electronic mail to twenty employees of the company and retrieved the information regarding the problem faced by existing system.

* + - 1. Interviews

Interview allows the analysts to learn more about the nature of the project request and reason of submitting it. Interviews should provide details that further explain the project and show whether assistance is merited economically, operationally or technically.

One of the most important points about interviewing is that what question you need to ask.

It is often convenient to make a distinction between three kinds of question that is

* Open questions
* Closed question
* Probes

Open questions are general question that establish a person’s view point on a particular subject. Closed questions are specific and usually require a specific answer.

## 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 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 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 password and recover 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 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 they 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 password and recover password.

## User module:

In this module user can view current delivery status of his parcel and also view the different branches of Courier Company

## Admin module:

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 destination, Total courier out for delivery and Total delivered courier, Admin can view courier status and check the courier detail which is filling by staff of different branches, courier counts and sales report according to dates.

## Staff module:

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 destination, Total courier out for delivery and Total delivered courier.

## User module:

In this module user can view current delivery status of his parcel and also view the different branches of Courier Company.

## Support module:

In this module of our project, we placed a very important feature i.e. feedback and issue complain. At runtime if any problem occurred to user than they may direct contact to us and write us their problem in a very elaborative way.

## TECHNOLOGIES USED

**XAMPP Server**

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.

## Notepad++

Notepad++ is a text and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The product's name comes from the C increment operator. Notepad++ is distributed as free software.

Based on the powerful editing component [Scintilla](https://www.scintilla.org/), Notepad++ is written in C++ and uses pure Win32 API and STL which ensures a higher execution speed and smaller program size. By optimizing as many routines as possible without losing user friendliness, Notepad++ is trying to reduce the world carbon dioxide emissions. When using less CPU power, the PC can throttle down and reduce power consumption, resulting in a greener environment.

TECHNOLOGIES USED

APPLICATION : Xampp Server, Notepad DESIGNING : HTML, CSS, JavaScript

Backend : PHP

## 3.6. LANGUAGE USED

This project has been developed HTML and Java.

## 3.6.1. HTML:

* HTML stands for Hyper Text Markup Language
* HTML is the standard markup language for creating Web pages
* HTML describes the structure of a Web page
* HTML consists of a series of elements
* HTML elements tell the browser how to display the content
* HTML elements label pieces of content such as "this is a heading", "this is paragraph", "this is a link", etc.

## CSS:

* CSS stands for Cascading Style Sheets
* CSS describes how HTML elements are to be displayed on screen, paper, or in other media
* CSS saves a lot of work. It can control the layout of multiple web pages all at once

## JavaScript:

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled and multi-paradigm. It has dynamic typing, prototype-based object-orientation and first-class functions.

## 3.6.3. PHP:

PHP is an acronym for "PHP: Hypertext Preprocessor"

* PHP is a widely used, open-source scripting language
* PHP scripts are executed on the server
* PHP is free to download

# CHAPTER 4

## SOFTWARE REQUIREMENT SPECIFICATION

* 1. **GENERAL DESCRIPTION**

This combined aggregation of information and workplace activity constructs a general, specific program or aim which is to be executed or produced within the workplace while working with others as a squad. The history of coaction began many centuries ago, long before the B.C. or A.D. epochs, where at least two persons had to pass on in the attempt of finishing a undertaking, undertaking, or written papers. Therefore, coaction is not a new term, but an enhanced and improved one in the professional workplace.

## PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

* Seeking for the help to play this traditional mode.
* Excessive use of Paper for maintaining register and updating data.
* More chance of Unfairness while giving marks due to biasness.

## SYSTEM OBJECTIVES

* + 1. **IMPROVEMENT IN CONTROL AND PERFORMANCE**

The system is developed to cope up with the current issues and problems of forgetting the traditional mechanism. The system identifies who is accessing the

profile and the data/information will be updated on the portal. To declare the Project and performance of the employee and details.

## Save cost

The existing system is based on the pen paper mode and several in the digital mode but is not secured and efficient to work.

## Save Time

People at any location will be able to perform or know there seniors subordinate team and there uniqueness etc. by registering or Login in the Portal. People at any location will able to perform or know there seniors subordinate team and there uniqueness etc. by registering or Logging in the Portal.

## REQUIREMENT SPECIFICATION

The application requirement specification is produced at the analysis task. The function and performance allocated to application as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints.

## 4.3. EXISTING VS PROPOSED SYSTEM

Existing system does not have a secure facility of Employee Performance System application with transparency in Workplace whereas proposed system is secure and transparency in the work of the people.

Existing system does not have any facility of generating Email Online whereas proposed system is working on the facility of generating email and password online by the admin with security.

Existing System does not have the facility of registering and generating organizational password whereas proposed system are more focused on it.

## 4.3.1. SOFTWARE SYSTEM ATTRIBUTES

* **Portability**: - The system should be machine independent.
* **Security**: - The system is designed in such a way that it will store the recorded data in the system of the owner. The system will be secure from unauthorized access of the application.
* **Maintainability**: The system will be designed in a maintainable order. The system can be easily modified and renewed according to the need of the organization

## 4.4. FEATURES OF COURIER MANAGEMENT SYSTEM

* No internet connection required against the computer.
* Multiple users can login and register on the same portal remotely.
* People can register and login in the system.
* Graphics with a classic look and the feel of a royal Web Application.
* Classic Profile Details to display status of each Courier.
* Security of data to be stored.
* Ensures data accuracy (number of alert generated).
* Minimize manpower.
* Minimize time consumption.
* Greater efficiency.
* Fast.
* Better services.
* User friendliness and Interactive.
* Minimum time required.
* Easy to add & update

## 4.5. PRELIMINARY INVESTIGATION:

After obtaining the background knowledge, we began to collect data on the existing system.

The tools that are used in information gathering are as follows:

* + - Online Apps observation.
    - Review of the peoples.

The model we have used is Incremental Model. In this model, first of all the existing system is observed, then customer requirements are taken in consideration then planning, modelling, construction and finally deployment and again adding the new system if asked by the customer to do so.

## 4.6. MODEL USED: INCEMENTAL MODEL

## Diagram Description automatically generated

Fig 1.0: Incremental Model

Incremental Model is a software development process where requirements are divided into several stand-alone software development modules. In this project the first increment is often core product where the basic requirements are addressed, and supplementary features are added.

## 4.7. PRELIMINARY DISCRIPTION:

The first step in the system development life cycle is the preliminary investigation to determine the feasibility of the system. The purpose of preliminary investigation is to evaluate project requests. It is not a design study, nor does it include the collection of details to describe the system in all respect. Rather, it is the collecting of information that helps committee members to evaluate the merits of project request and make an informed judgement about the feasibility of the proposed project.

**Analyst working on the preliminary investigation should accomplish the following objectives:**

* Clarify and understand the project request.
* Determine the size of the project.
* Access costs and benefits of alternative approaches.
* Determine the technical and operational feasibility of alternative approaches.
* Report the findings to management with recommendations outlining the acceptance and rejection of the proposal

# CHAPTER 5

## PLANNING AND SHEDUELING

**5.1. GANTT CHART**

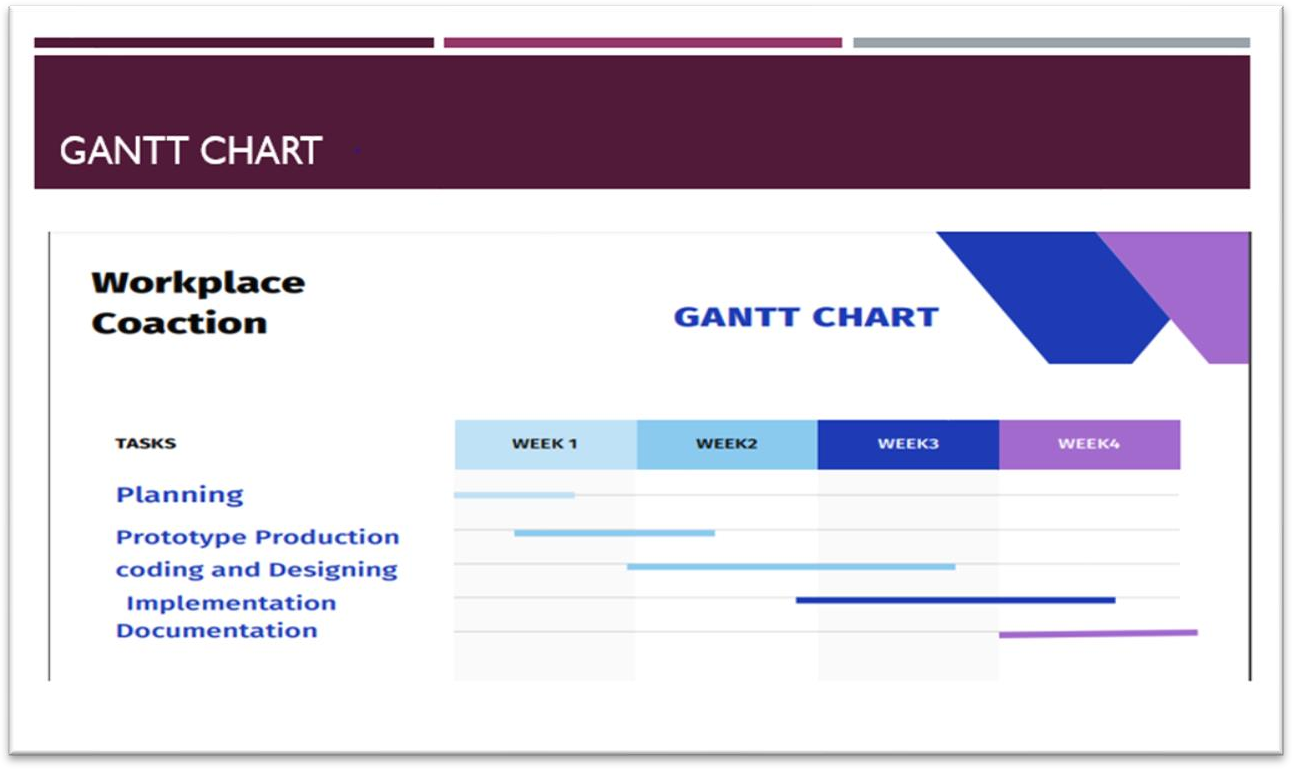
A Gantt chart can be developed for the entire project, or a separate chart can be developed for each function. A tabular form is maintained where rows indicate the task with milestones and columns indicate duration (Days).

Fig 2.0 Gantt Chart

## 5.1.1. SOFTWARE REQUIREMENTS:

|  |  |
| --- | --- |
| Name of Components | Specifications |
| Operating system | Windows |
| Language | HTML, CSS, JavaScript, PHP |

|  |  |
| --- | --- |
| Software Development kit | XAMPP, Google Chrome |
| Markup Language Enable | HTML |

**5.1.1. HARDWARE REQUIREMENTS:**

|  |  |
| --- | --- |
| Name of Components | Specifications |
| Desktop/Laptop | Any Configuration |
| Memory Used | 6.31 MB |

## 5.2. DATA FLOW DIAGRAM

A Data Flow Diagram (DFD) is a diagram that describes the flow of data and the processes that change data throughout a system. It’s a structured analysis and design tool that can be used for flowcharting in place of or in association with information. Oriented and process- oriented system flowcharts. Four basic symbols are used to construct data flow diagrams. They are symbols that represent data source, data flows, and data transformations and data storage. The points at which data are transformed are represented by enclosed figures, usually circles, which are called nodes.

For achieving the abovementioned criteria’s, we have to make use of various features that are available with the RDBMS by enforcing integrity constrains, it is possible to ensure data integrity and reduce data inconsistency to a great extent.

These are used to graphically represent the flow of data in a Employee Performance System. DFD describes the processes that are involved in a system to transfer data from the admin to the employee, employee to the employee, employee to admin etc.

Employee Performance System this system shows the flow of data in admin Modules on many Actions. It shows the flow of data among the sub module in it Admin data flow on the sub screen.

When analysts prepare the Data Flow Diagram, they specify the user needs at a level of detail that virtually determines the information flow into and out of the system and the required data resources.

The Data Flow Diagram reviews the current physical system, prepares input and output specification, and specifies the implementation plan.

**Steps to Construct Data Flow Diagrams**

Four steps are commonly used to construct a DFD

* Process should be named and numbered for easy reference. Each name should

be representative of the process.

* The destination of flow is from top to bottom and from left to right.
* When a process is exploded in to lower level details they are numbered.
* The names of data stores, sources and destinations are written in capital letters.

**Rules for constructing a Data Flow Diagram**

* Arrows should not cross each other.
* Squares, circles and files must bear names.
* Decomposed data flow squares and circles can have same names.
* Draw all data flow around the outside of the diagram.

**Data Flow Diagram Symbols**

* + **Source or Destination of data**
  + **Data Flow**
  + **Process**
  + **Storage**

**DATA FLOW DIAGRAMS**

**![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAqACoAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhhcnNoaWthAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMDEAAJKSAAIAAAADMDEAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fig 3.1 Data flow diagram

This software allows the administrator to edit employees, add new employees, transfer/promote/terminate employees. Each employee in the database is associated with a position can be added and edited when need arises. Employees can be transferred between positions easily without having to retype back their information in the database.

Each employee in the database is associated with a position can be added and edited when need arises. Employees can be transferred between positions easily without having to retype back their information in the database. You can check to see if there are duplicate positions/employees in the database. Most of all, the employer can assign tasks to employees and

Courier system shows the flow of data in Status Modules on many Actions It shows the flow of data among the sub module in it. Employee data flow on the sub screen. It is with who is someone’s reporting manager.

A diagram of a flowchart

Description automatically generated with low confidence

Courier Management System shows the flow of data in Employee Modules on many Actions. It shows the flow of data among the sub module in it Employee data flow on the sub screen. It is with who is not someone’s reporting manager. In this we can find the status of our courier and timing of its destination.

It is very helpful for a new user, as it will him to understand that whole working in less

Diagram

Description automatically generatedtime

Fig 3.3 Component Diagram

## 5.3. ENTITY RELATIONSHIP DIAGRAM:

This ER Diagram represents the model of Courier Management System. The Entity Relationship Diagram show all visual instrument of Database table and relation between Homepage, Admin Page, Customer Page. All of it have Structured data and every entity may have some attributes.

Workplace Coaction System Entity and their Attributes:

1. Admin: Attribute of admin: Email id, Password, Forget Password.
2. Insert New Courier Details: Attributes are Name, Email, Password, Gender, Qualification, Project, Project Manager, and Phone.
3. Delete New Employee: Attributes are Name, Email, Password, Gender, Qualification, Project, Project Manager, and Phone.
4. Update Details of Courier: Attributes are Name, Email, Password, Status, and Phone.
5. Employee: Attribute of Employee: Email id, Password, Forget Password.
6. Employee Update Details: Attributes are Name, Email, Gender, Qualification, Project, Project Manager, and Phone.
7. Search Courier: Attributes are Name, Email, Location, and Date.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAqACoAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhhcnNoaWthAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzgAAJKSAAIAAAADMzgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ROM4dfcZP5mvCPD/jHXfgJr0nhXxylxqHh1tz2F3CNxUdtmT0z1XPBzQB9Kr90UN2OM4rN0bX9N8QabDf6LeQ3drKgcPG2SoPTI7d+tXt+WAP4kdqAOc8QeH9RuPEVjr/h+4tYb+1he2dLxWMckTkEj5eQcgc1zg+HGsS6PrUV7q9tNeahqseok+WyxOqgDyXHUocY47V6SBkYz+NGwe9AHnuifDy5svEeoand/wBlWkN7p5smtdLtzGq5/i56mmN8PdUv/BsXh3WbvTpIdPkjk02aKFiSUOV81W4I7ECvRdgzmjYPU0Acj4V8NX+kanJdX1h4dtgYjGraTatE7cg/MT9Oldcme+Pwpdv160jHb0oAVunNMJPfrnvTJriO3heW4lSKNfvSOwVR9Sa8M+Ifxuk1K4fwf8MI7i91qeY2xu41BVPUxnuckjccAYzQBl/EVbv4hftF6HoGlmFodDKSy3MWXEeCHcPjoQU2/Uivo0HIzXm3wm+Fdt8PNMe6v3+169fJ/pl1uJCgnJRT3Gep7mvSVxtGOlAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABTSmR+OadRQB598U/hbp/xE0QLlbXV7UbrS9C8g/3GxyV/lXk/hr4meKvg5qP/AAjfxRsrq9tpMSW9153mtGCfmIfneoyeOoPFfSrKS2R2PFUNX0HTdfsGsdb0+3vrVwN8cyBgcHP8xQBS8K+M9A8Y2IuvDupQ3aBQzRA4kiByBuTqvQ9a3g/qK8L1r9nFLDUn1j4eeILnRryNfMggkOV83JP3xyBg4xg4rGtPF/xr8Ao7eJNDfXtKs5GWW4OGeYE4Uh1JbGSMfL0oA+jd4/woDhiQOcda8D0v9p6wiuJo/F/hm+0twqtCsP7wuOc5DbcD0/Guq0H9oLwBq8Mz3OpSaX5bbVW+jIaTIzkbc8DpQB6mRu+npTW4wT+lcMPjb8OQMf8ACV2n/fEn/wATSH42/Dk/8zXaf98Sf/E0AdwAAwJGc9/896fvx19cD3ryTWf2jvAWk3/2aCW71JNgbzrOIFCT2+Yg5H9a5m6/aae4vpR4Z8HXmpWKYxO7sr7sZIIVWA596APoEuO3P0rifG/xY8J+BonGrXyy3oB22Vud8pbbuAYD7oPHJ45rylovjz47vore5H/CNWexmMqERK6Nj5TgsS2OnTvXVeFP2b/DOiXbXniKeXxFcbjtFwu2MDbjBXJ3HvnNAHn91L46/aD1rfpaz6R4ThkFu4aXC7TyxYf8tG4HHQcV9DeD/CGkeCtAg0nQrcRQxj53P35W7ux7k1qwWcdtEkdtFHDGnARFAAHtj8KsAYP+NAC1l654c0rxJpz2Ou2Fve27qyhZUBKZGCVPVTjuOa1KKAPnqf4B+KfBmpy6n8MPFDxlAHSzuG2mV+Rhv4CACcbhUFj8ZviJ4OQD4heEri4s7V3inv0gMbSNuIXDfcxn0619EFW3Z569M9qY8AlTZMiyoTkrIAw9utAHkekftM+B7ux83VPtumXG4g27wNKcdjuUY5rsdL+LXgbVtNivYPEthCkmcJczCKQYOOVbkVa1f4c+ENevje6v4bsLu5KBPMki5wOg4rktS/Zz+H+p6hJd/YLqz8zH7m1uNka4AHAwcdM0Add/wsrwT/0Nekf+Bif40H4leCgpP/CVaTgel2h/rXD/APDMnw+/uan/AOBf/wBjQP2Zfh+D/q9UP/b3/wDY0AWLj9pH4dxRymO/upnQHai2j/OR2Bxjn1rlJf2jNc8RL5XgHwTdXk8ILXHnAy7FPCkBOnOetenwfCTwJbSRSw+FNNEsTBkfyuQR0NdXFaRQAmCKOJj18tAufrigD53i+G3xV+KGnwTeOfEB0uyO0i0K7WkjY7m3ImACMDAavYPAnwy8PfD/AEtLfSLZZboFi9/OgMz5/wBrHAxgYHFdcAd3NOoAZ5Y/LpTlG1QKWigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAOtJtHHGMdMUtFAGffaBo+qXAn1LSbG8mVdokuLZJGA9MkZxzXOa58IfAfiK4im1Tw3al4VKp9md7cYJzyImUH6muzooA83P7P3wyY5Phn/yfuf/AI5Sr+z/APDJCSvhnqMf8f8Ac/8AxyvR6KAOV0b4ZeC9AsPsem+G7AQ7y+LiP7Q2T1+aTc2OOmcVv6fpOnaTG0elWFtZI5yy20Kxhj6kKBk1booAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/Z)Fig 3.4 Entity relationship Diagram

Fig 4.3 Entity Relationship Diagram

# CHAPTER 6

**SYSTEM TESTING AND IMPLEMENTATION**

## SYSTEM TESTING:

The common view of testing held by users is that it is performed to prove that there are no errors in a program. It is extremely difficult since designer cannot prove to be one hundred percent accurate. Therefore, the most useful and practical approach is with the understanding that testing is the process of executing a program with explicit intention of finding errors that make the program fail.

Testing has its own cycle. The testing process begins with the product requirements phase and from there parallels the entire development process. In other words, for each phase of the development process there is an important testing activity. It is extremely difficult since designer cannot prove to be one hundred percent accurate. Therefore, the most useful and practical approach is with the understanding that testing.

Successful testing requires a methodical approach. It requires focusing on basic critical factors:

* Planning
* Project and process control
* Risk management
* Inspections
* Measurement tools

## TEST PLAN

Before going for testing, first we must decide upon the type of testing to be carried out. The following factors are taken into consideration:

* To ensure that information properly flows into and out of program
* To find out whether the local data structures maintain its integrity during all steps in an algorithm execution
* To ensure that the module operate properly at boundaries established to limit or restrict processing
* To find out whether error - handling paths are working correctly or not
* To find out whether the values are correctly updated or not
* Check for validations

## BLACK BOX TESTING

It is a software testing approach in which the tester doesn’t know the internal working of the item being tested. For example, in a Black box test, on software design the tester only knows the input and the expected outputs. Tester doesn’t know how the program derives the output. Tester doesn’t even imagine as to how; the coding is done. Testers need to know only the specifications.

The advantages of black box testing approach are:

* The test is unbiased because the designer and the tester is independent of each other
* The tester needs no specific knowledge on any programming language
* The test is done from the point of view of the user, not the designer.
* The test can be designed as soon as the specifications are complete The disadvantages of black box testing approach are
* The test can be redundant if the software designer has already run a testcase.

## UNIT TESTING

Unit or module testing is the process of testing the individual components (subprograms or procedures) of a program. The purpose is to discover discrepancies between the modules interface specification and its actual behavior. In our system each module must be tested independently for validation.

## INTEGRATION TESTING

Integration testing is the process of combining and testing multiple components together. The primary objective of integration testing is to discover errors in the interfaces between the components. In our system each of the modules mentioned above, are tested for checking the integration between them, after each of them are tested individually.

Software testing is an investigation conducted to provide stakeholders with information about the [quality](https://en.wikipedia.org/wiki/Software_quality) of the [software](https://en.wikipedia.org/wiki/Software) product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding [software bugs](https://en.wikipedia.org/wiki/Software_bug) (errors or other defects), and verifying that the software product is fit for use.

Software testing involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the extent to which the component or system under test:

* meets the requirements that guided its design and development,
* responds correctly to all kinds of inputs,
* performs its functions within an acceptable time,
* it is sufficiently usable,
* can be installed and run in its intended [.](https://en.wikipedia.org/wiki/Operating_environment)

# CHAPTER 7

## CODING

**Admin.php**

<?php

session\_start();

ini\_set('display\_errors', 1);

Class Action {

private $db;

public function \_\_construct() {

ob\_start();

include 'db\_connect.php';

$this->db = $conn;

}

function \_\_destruct() {

$this->db->close();

ob\_end\_flush();

}

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;

}

}

function logout(){

session\_destroy();

foreach ($\_SESSION as $key => $value) {

unset($\_SESSION[$key]);

}

header("location:login.php");

}

function login2(){

extract($\_POST);

$qry = $this->db->query("SELECT \*,concat(lastname,', ',firstname,' ',middlename) as name FROM students where student\_code = '".$student\_code."' ");

if($qry->num\_rows > 0){

foreach ($qry->fetch\_array() as $key => $value) {

if($key != 'password' && !is\_numeric($key))

$\_SESSION['rs\_'.$key] = $value;

}

return 1;

}else{

return 3;

}

}

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') ";

}

$check = $this->db->query("SELECT \* FROM users where email ='$email' ".(!empty($id) ? " and id != {$id} " : ''))->num\_rows;

if($check > 0){

return 2;

exit;

}

if(empty($id)){

$save = $this->db->query("INSERT INTO users set $data");

}else{

$save = $this->db->query("UPDATE users set $data where id = $id");

}

if($save){

return 1;

}

}

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' ";

}

}

}

$check = $this->db->query("SELECT \* FROM users where email ='$email' ".(!empty($id) ? " and id != {$id} " : ''))->num\_rows;

if($check > 0){

return 2;

exit;

}

if(isset($\_FILES['img']) && $\_FILES['img']['tmp\_name'] != ''){

$fname = strtotime(date('y-m-d H:i')).'\_'.$\_FILES['img']['name'];

$move = move\_uploaded\_file($\_FILES['img']['tmp\_name'],'../assets/uploads/'. $fname);

$data .= ", avatar = '$fname' ";

}

if(empty($id)){

$save = $this->db->query("INSERT INTO users set $data");

}else{

$save = $this->db->query("UPDATE users set $data where id = $id");

}

if($save){

if(empty($id))

$id = $this->db->insert\_id;

foreach ($\_POST as $key => $value) {

if(!in\_array($key, array('id','cpass','password')) && !is\_numeric($key))

$\_SESSION['login\_'.$key] = $value;

}

$\_SESSION['login\_id'] = $id;

return 1;

}

}

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' ";

}

}

}

if($\_FILES['img']['tmp\_name'] != ''){

$fname = strtotime(date('y-m-d H:i')).'\_'.$\_FILES['img']['name'];

$move = move\_uploaded\_file($\_FILES['img']['tmp\_name'],'assets/uploads/'. $fname);

$data .= ", avatar = '$fname' ";

}

$check = $this->db->query("SELECT \* FROM users where email ='$email' ".(!empty($id) ? " and id != {$id} " : ''))->num\_rows;

if($check > 0){

return 2;

exit;

}

if(empty($id)){

$save = $this->db->query("INSERT INTO users set $data");

}else{

$save = $this->db->query("UPDATE users set $data where id = $id");

}

if($save){

foreach ($\_POST as $key => $value) {

if($key != 'password' && !is\_numeric($key))

$\_SESSION['login\_'.$key] = $value;

}

if($\_FILES['img']['tmp\_name'] != '')

$\_SESSION['login\_avatar'] = $fname;

return 1;

}

}

## Classes.php

<?php include'db\_connect.php' ?>

<div class="col-lg-12">

<div class="card card-outline card-primary">

<div class="card-header">

<div class="card-tools">

<a class="btn btn-block btn-sm btn-default btn-flat border-primary new\_class" href="javascript:void(0)"><i class="fa fa-plus"></i> Add New</a>

</div>

</div>

<div class="card-body">

<table class="table tabe-hover table-bordered" id="list">

<colgroup>

<col width="20%">

<col width="60%">

<col width="20%">

</colgroup>

<thead>

<tr>

<th class="text-center">#</th>

<th>Level</th>

<th>Section</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<?php

$i = 1;

$qry = $conn->query("SELECT \* FROM classes order by level asc, section asc ");

while($row= $qry->fetch\_assoc()):

?>

<tr>

<th class="text-center"><?php echo $i++ ?></th>

<td><b><?php echo $row['level'] ?></b></td>

<td><b><?php echo $row['section'] ?></b></td>

<td class="text-center">

<div class="btn-group">

<a href="javascript:void(0)" data-id='<?php echo $row['id'] ?>' class="btn btn-primary btn-flat manage\_class">

<i class="fas fa-edit"></i>

</a>

<button type="button" class="btn btn-danger btn-flat delete\_class" data-id="<?php echo $row['id'] ?>">

<i class="fas fa-trash"></i>

</button>

</div>

</td>

</tr>

<?php endwhile; ?>

</tbody>

</table>

</div>

</div>

</div>

<script>

$(document).ready(function(){

$('#list').dataTable()

$('.new\_class').click(function(){

uni\_modal("New class","manage\_class.php")

})

$('.manage\_class').click(function(){

uni\_modal("Manage class","manage\_class.php?id="+$(this).attr('data-id'))

})

$('.delete\_class').click(function(){

\_conf("Are you sure to delete this class?","delete\_class",[$(this).attr('data-id')])

})

})

function delete\_class($id){

start\_load()

$.ajax({

url:'ajax.php?action=delete\_class',

method:'POST',

data:{id:$id},

success:function(resp){

if(resp==1){

alert\_toast("Data successfully deleted",'success')

setTimeout(function(){

location.reload()

},1500)

}

}

})

}

</script>

## Home.php

<?php include('db\_connect.php') ?>

<?php

$twhere ="";

if($\_SESSION['login\_type'] != 1)

$twhere = " ";

?>

<!-- Info boxes -->

<?php if($\_SESSION['login\_type'] == 1): ?>

<div class="row">

<div class="col-12 col-sm-6 col-md-4">

<div class="small-box bg-light shadow-sm border">

<div class="inner">

<h3><?php echo $conn->query("SELECT \* FROM branches")->num\_rows; ?></h3>

<p>Total Branches</p>

</div>

<div class="icon">

<i class="fa fa-building"></i>

</div>

</div>

</div>

<div class="col-12 col-sm-6 col-md-4">

<div class="small-box bg-light shadow-sm border">

<div class="inner">

<h3><?php echo $conn->query("SELECT \* FROM parcels")->num\_rows; ?></h3>

<p>Total Parcels</p>

</div>

<div class="icon">

<i class="fa fa-boxes"></i>

</div>

</div>

</div>

<div class="col-12 col-sm-6 col-md-4">

<div class="small-box bg-light shadow-sm border">

<div class="inner">

<h3><?php echo $conn->query("SELECT \* FROM users where type != 1")->num\_rows; ?></h3>

<p>Total Staff</p>

</div>

<div class="icon">

<i class="fa fa-users"></i>

</div>

</div>

</div>

<hr>

<?php

$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");

foreach($status\_arr as $k =>$v):

?>

<div class="col-12 col-sm-6 col-md-4">

<div class="small-box bg-light shadow-sm border">

<div class="inner">

<h3><?php echo $conn->query("SELECT \* FROM parcels where status = {$k} ")->num\_rows; ?></h3>

<p><?php echo $v ?></p>

</div>

<div class="icon">

<i class="fa fa-boxes"></i>

</div>

</div>

</div>

<?php endforeach; ?>

</div>

<?php else: ?>

<div class="col-12">

<div class="card">

<div class="card-body">

Welcome <?php echo $\_SESSION['login\_name'] ?>!

</div>

</div>

</div>

<?php endif; ?>

**Index.php**

<?php endif; ?>

<!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">

<?php include 'topbar.php' ?>

<?php include 'sidebar.php' ?>

<!-- Content Wrapper. Contains page content -->

<div class="content-wrapper">

<div class="toast" id="alert\_toast" role="alert" aria-live="assertive" aria-atomic="true">

<div class="toast-body text-white">

</div>

</div>

<div id="toastsContainerTopRight" class="toasts-top-right fixed"></div>

<!-- Content Header (Page header) -->

<div class="content-header">

<div class="container-fluid">

<div class="row mb-2">

<div class="col-sm-6">

<h1 class="m-0"><?php echo $title ?></h1>

</div><!-- /.col -->

</div><!-- /.row -->

<hr class="border-primary">

</div><!-- /.container-fluid -->

</div>

<!-- /.content-header -->

<!-- Main content -->

<section class="content">

<div class="container-fluid">

<?php

$page = isset($\_GET['page']) ? $\_GET['page'] : 'home';

if(!file\_exists($page.".php")){

include '404.html';

}else{

include $page.'.php';

}

?>

</div><!--/. container-fluid -->

</section>

<!-- /.content -->

<div class="modal fade" id="confirm\_modal" role='dialog'>

<div class="modal-dialog modal-md" role="document">

<div class="modal-content">

<div class="modal-header">

<h5 class="modal-title">Confirmation</h5>

</div>

<div class="modal-body">

<div id="delete\_content"></div>

</div>

<div class="modal-footer">

<button type="button" class="btn btn-primary" id='confirm' onclick="">Continue</button>

<button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>

</div>

</div>

</div>

</div>

<div class="modal fade" id="uni\_modal" role='dialog'>

<div class="modal-dialog modal-md" role="document">

<div class="modal-content">

<div class="modal-header">

<h5 class="modal-title"></h5>

</div>

<div class="modal-body">

</div>

<div class="modal-footer">

<button type="button" class="btn btn-primary" id='submit' onclick="$('#uni\_modal form').submit()">Save</button>

<button type="button" class="btn btn-secondary" data-dismiss="modal">Cancel</button>

</div>

</div>

</div>

</div>

<div class="modal fade" id="uni\_modal\_right" role='dialog'>

<div class="modal-dialog modal-full-height modal-md" role="document">

<div class="modal-content">

<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>

</div>

</div>

</div>

<div class="modal fade" id="viewer\_modal" role='dialog'>

<div class="modal-dialog modal-md" role="document">

<div class="modal-content">

<button type="button" class="btn-close" data-dismiss="modal"><span class="fa fa-times"></span></button>

<img src="" alt="">

</div>

</div>

</div>

</div>

<!-- /.content-wrapper -->

<!-- Control Sidebar -->

<aside class="control-sidebar control-sidebar-dark">

<!-- Control sidebar content goes here -->

</aside>

<!-- /.control-sidebar -->

<!-- Main Footer -->

<footer class="main-footer">

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<div class="float-right d-none d-sm-inline-block">

<b><?php echo $\_SESSION['system']['name'] ?></b>

</div>

</footer>

</div>

<!-- ./wrapper -->

<!-- REQUIRED SCRIPTS -->

<!-- jQuery -->

<!-- Bootstrap -->

<?php include 'footer.php' ?>

</body>

</html>

**Manage.php**

<?php

include('db\_connect.php');

session\_start();

if(isset($\_GET['id'])){

$user = $conn->query("SELECT \* FROM users where id =".$\_GET['id']);

foreach($user->fetch\_array() as $k =>$v){

$meta[$k] = $v;

}

}

?>

<div class="container-fluid">

<div id="msg"></div>

<form action="" id="manage-user">

<input type="hidden" name="id" value="<?php echo isset($meta['id']) ? $meta['id']: '' ?>">

<div class="form-group">

<label for="name">First Name</label>

<input type="text" name="firstname" id="firstname" class="form-control" value="<?php echo isset($meta['firstname']) ? $meta['firstname']: '' ?>" required>

</div>

<div class="form-group">

<label for="name">Last Name</label>

<input type="text" name="lastname" id="lastname" class="form-control" value="<?php echo isset($meta['lastname']) ? $meta['lastname']: '' ?>" required>

</div>

<div class="form-group">

<label for="email">Email</label>

<input type="text" name="email" id="email" class="form-control" value="<?php echo isset($meta['email']) ? $meta['email']: '' ?>" required autocomplete="off">

</div>

<div class="form-group">

<label for="password">Password</label>

<input type="password" name="password" id="password" class="form-control" value="" autocomplete="off">

<small><i>Leave this blank if you dont want to change the password.</i></small>

</div>

</form>

</div>

<style>

img#cimg{

max-height: 15vh;

/\*max-width: 6vw;\*/

}

</style>

<script>

function displayImg(input,\_this) {

if (input.files && input.files[0]) {

var reader = new FileReader();

reader.onload = function (e) {

$('#cimg').attr('src', e.target.result);

}

reader.readAsDataURL(input.files[0]);

}

}

$('#manage-user').submit(function(e){

e.preventDefault();

start\_load()

$.ajax({

url:'ajax.php?action=update\_user',

data: new FormData($(this)[0]),

cache: false,

contentType: false,

processData: false,

method: 'POST',

type: 'POST',

success:function(resp){

if(resp ==1){

alert\_toast("Data successfully saved",'success')

setTimeout(function(){

location.reload()

},1500)

}else{

$('#msg').html('<div class="alert alert-danger">Username already exist</div>')

end\_load()

}

}

})

})

</script>

**Parcel.php**

<?php include'db\_connect.php' ?>

<div class="col-lg-12">

<div class="card card-outline card-primary">

<div class="card-header">

<div class="card-tools">

<a class="btn btn-block btn-sm btn-default btn-flat border-primary " href="./index.php?page=new\_parcel"><i class="fa fa-plus"></i> Add New</a>

</div>

</div>

<div class="card-body">

<table class="table tabe-hover table-bordered" id="list">

<!-- <colgroup>

<col width="5%">

<col width="15%">

<col width="25%">

<col width="25%">

<col width="15%">

</colgroup> -->

<thead>

<tr>

<th class="text-center">#</th>

<th>Reference Number</th>

<th>Sender Name</th>

<th>Recipient Name</th>

<th>Status</th>

<th>Action</th>

</tr>

</thead>

<tbody>

<?php

$i = 1;

$where = "";

if(isset($\_GET['s'])){

$where = " where status = {$\_GET['s']} ";

}

if($\_SESSION['login\_type'] != 1 ){

if(empty($where))

$where = " where ";

else

$where .= " and ";

$where .= " (from\_branch\_id = {$\_SESSION['login\_branch\_id']} or to\_branch\_id = {$\_SESSION['login\_branch\_id']}) ";

}

$qry = $conn->query("SELECT \* from parcels $where order by unix\_timestamp(date\_created) desc ");

while($row= $qry->fetch\_assoc()):

?>

<tr>

<td class="text-center"><?php echo $i++ ?></td>

<td><b><?php echo ($row['reference\_number']) ?></b></td>

<td><b><?php echo ucwords($row['sender\_name']) ?></b></td>

<td><b><?php echo ucwords($row['recipient\_name']) ?></b></td>

<td class="text-center">

<?php

switch ($row['status']) {

case '1':

echo "<span class='badge badge-pill badge-info'> Collected</span>";

break;

case '2':

echo "<span class='badge badge-pill badge-info'> Shipped</span>";

break;

case '3':

echo "<span class='badge badge-pill badge-primary'> In-Transit</span>";

break;

case '4':

echo "<span class='badge badge-pill badge-primary'> Arrived At Destination</span>";

break;

case '5':

echo "<span class='badge badge-pill badge-primary'> Out for Delivery</span>";

break;

case '6':

echo "<span class='badge badge-pill badge-primary'> Ready to Pickup</span>";

break;

case '7':

echo "<span class='badge badge-pill badge-success'>Delivered</span>";

break;

case '8':

echo "<span class='badge badge-pill badge-success'> Picked-up</span>";

break;

case '9':

echo "<span class='badge badge-pill badge-danger'> Unsuccessfull Delivery Attempt</span>";

break;

default:

echo "<span class='badge badge-pill badge-info'> Item Accepted by Courier</span>";

break;

}

?>

</td>

<td class="text-center">

<div class="btn-group">

<button type="button" class="btn btn-info btn-flat view\_parcel" data-id="<?php echo $row['id'] ?>">

<i class="fas fa-eye"></i>

</button>

<a href="index.php?page=edit\_parcel&id=<?php echo $row['id'] ?>" class="btn btn-primary btn-flat ">

<i class="fas fa-edit"></i>

</a>

<button type="button" class="btn btn-danger btn-flat delete\_parcel" data-id="<?php echo $row['id'] ?>">

<i class="fas fa-trash"></i>

</button>

</div>

</td>

</tr>

<?php endwhile; ?>

</tbody>

</table>

</div>

</div>

</div>

<style>

table td{

vertical-align: middle !important;

}

</style>

<script>

$(document).ready(function(){

$('#list').dataTable()

$('.view\_parcel').click(function(){

uni\_modal("Parcel's Details","view\_parcel.php?id="+$(this).attr('data-id'),"large")

$('.delete\_parcel').click(function(){

\_conf("Are you sure to delete this parcel?","delete\_parcel",[$(this).attr('data-id')])

})

})

function delete\_parcel($id){

start\_load()

$.ajax({

url:'ajax.php?action=delete\_parcel',

success:function(resp){

if(resp==1){

alert\_toast("Data successfully deleted",'success')

setTimeout(function(){

location.reload()

},1500)

} </script>

# CHAPTER 8

## SNIPPETS

**Screenshot 1**

Graphical user interface, application

Description automatically generated

**Screenshot 2:**

Graphical user interface

Description automatically generated with medium confidence

**Screenshot 3:**

**Graphical user interface, application

Description automatically generated**

**Screenshot 4:**

**Screenshot 5:**

Graphical user interface, text, application, email

Description automatically generated

# Screenshot 6:

# Graphical user interface, text, application, email Description automatically generated

# CHAPTER 9

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