A Mini Project Synopsis on

Online Courier Management System

S.E. - I.T Engineering

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CERTIFICATE

This to certify that the Mini Project report on **ONLINE COURIER MANAGEMENT SYSTEM** has been submitted by 21204002, 21204005 and 21204009 who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in **Information Technology**, during the academic year **2021-2022** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

Courier Management System is a software for the cargo offices where the customer can approach the office and book an article or good. The manager/clerk can use this software to enter the details of the customer and goods along with the source and destination points. The details of loading the goods into the physical transport system are also recorded by the system. The system has GUI for the users to manage not only daily transactions but also to keep the historical data in the database for future reference.

The other user of the system is administrator who can manage the vehicles information as well as employees' information. He can also create new branch based on based on branch requests and can decide the route for the cargo to take on a particular day so that delivery happens at the customer's nearest point. Also, it provides the management reports like monthly goods bookings, loadings, deliveries, demurrages and receivers particulars.

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 Within the country, the things can be imported through post service. But it consumes the time & sometimes problem of damage or missing occur. Where as in the international market, the one way is shipping. But it also requires more time.

1.1.**Purpose:**

The purpose of Online Courier Management System is in computer system of the courier service computation of the rate is easily & quickly done. The Online Courier Management System allows the user of the system access all the details such as track details, add courier details, add client details, etc. It is ease to the users which don't have any idea about the courier tracking and can check and track the prices of various courier under one website. The system can also be used for both professional and business trips. The proposed system maintains centralized repository to make necessary clients database and required Courier details and to retrieve information easily. The purpose is to design a system using which one can perform all operations related to adding courier and tracking courier.

1.2 **Objectives:**

The objectives of our project are as follows:

- To handle the entire activity of courier admin.
- To keep track of all the information about the delivery item and service provided.
- To contain database where all the information will be stored safely.
- It is very difficult to do this process manually. Hence it is recommended to computerize the process by developing the relative software as the world is turning into information and technology; computerization becomes necessity in all walks of life.

1.3 **Scope:**

The proposed system is being developed keeping in mind the requirements/need of the client to automate its existing system for record keeping, report generation and management level information system. Keeping in mind the needs, the system has been developed as per guidelines laid by the client's center. The system is capable enough to handle library records, courier's records, tracking records, client's records, etc. It manages all the information about Courier, Bill, Customer, Courier. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The proposed project on Online Courier Management system tries to bridge the gap by tracking whatever the courier they have booked and client Hence, the aim of project entails the design and implementation of a platform that will assist clients in gaining access of booked couriers through Tracking system.

Chapter 2

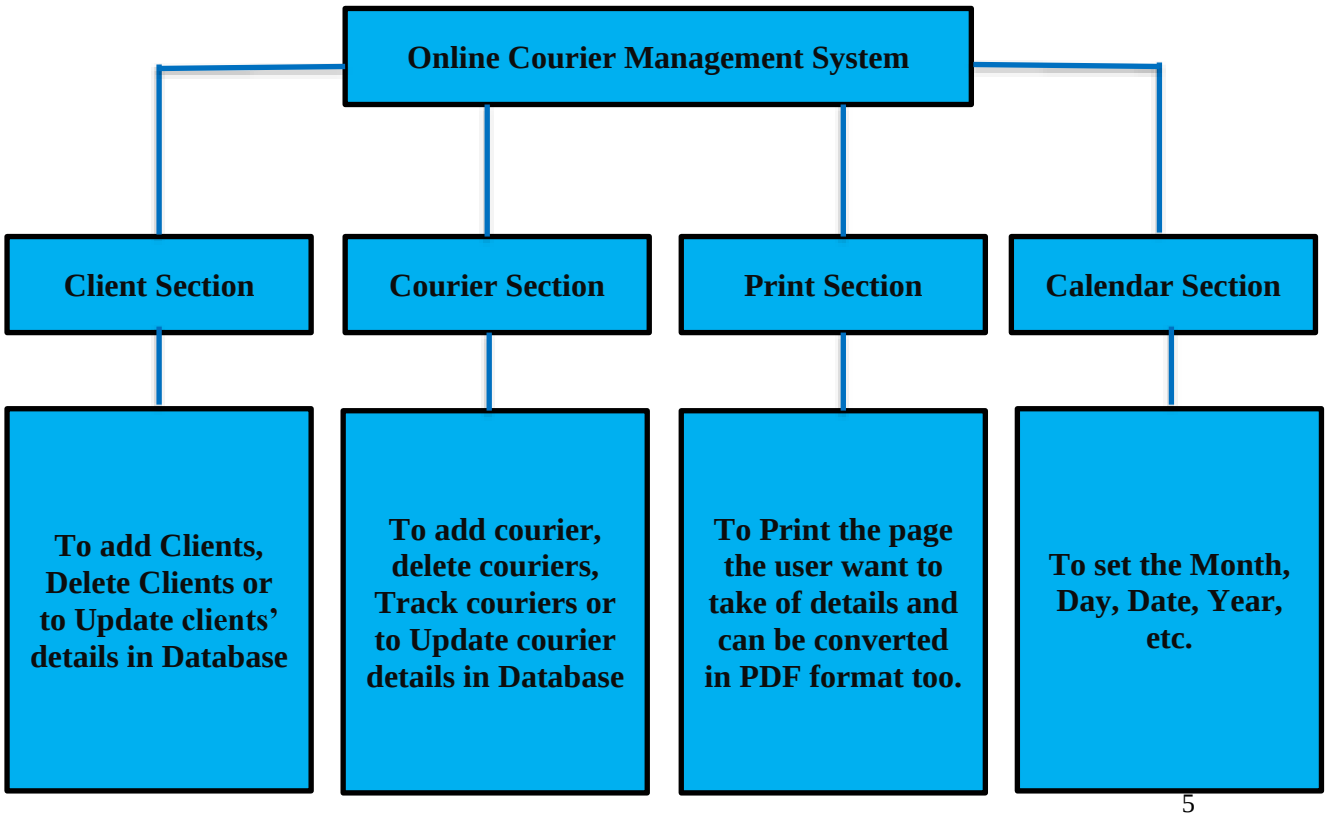
Problem Definition

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 side also. The courier management system is supposed to be effective and utilize the resources in an optimum manner to ensure timely service with least cost. Every aspect of the operation from pickup/receipt must be logged properly. The movement of goods between hubs or zones will have a time limit set under which it must be completed. The last mile delivery will also be important as a lot of delays happen here due to time taken to locate the receiver. Any packages which remain undelivered or unclaimed will be notified to the receiver first and then the sender. The receiver will be sent a tracking ID by the courier service company through SMS/email. This can be used to track its movement. The design and implementation of this system will be the goal of this project

Chapter 3

Proposed System:

- In computer system of the courier service computation of the rate is easily & quickly done.
- Computer system of the courier service provide fast access.
- If our documents or any consignment is missed then we can know it easily using the databases in the computer system of courier services.
- It contains better storage capacity.
- Accuracy in work.
- Easy & fast retrieval of information.
- Well-designed reports.
- Decrease the load of the person involve in existing manual system.
- Access of any information individually.
- Work becomes very speedy.
- Efficient to Track courier
- Easy to update information.



3.1 **Features and Functionality:**

1. **User-friendly interface:**

   - Interface is bound to simple and very friendly as per the user is concerned. That is, we can say that the project is user friendly which is one of the primary concerns of any good project.

2. **Easy Booking /Tracking System:**

   - The user can easily book a courier and can track the courier. They don't have to wait for many days without any update. They will receive every update about courier after booked.

3. **Simple Refund Policy:**

   - If there is some issues or user cancel the booking then it can be deleted the courier.

4. **Add/Delete/Update Clients details:**

   - The new client can be easily created with some details or the client can be deleted or we can update client details if any

5. **Less paper work:**

   - Before, there was so much of paper work when courier was to be booked. Now, they can easily book the courier and can track courier.

Chapter 4

Project Outcomes:

"Online Courier Management System" simplifies the management process in courier details.

Users can decide about places they want to visit and make bookings online for courier and client details.

Any courier management can make use of this project for saving customer details in database.

We can add new features as and when we require.

Navigation through the project is easy.

This application can be easily implemented under various situations. Reusability of this application is also possible.

Fast processing and immediate result with high security.

Minimizing human effort and cost efficiency databases.

Our project invokes all base tasks that are now carried out manually, such as the forms transactions and reports which is added advantage.

The proposed System is completely computer-based application.

Thousands of records can search and displayed without taking any significant time.

Gives accurate information.

- Simplifies the manual work.
- It minimizes the documentation related work.
- Provides up to date information.
- Clients' details can be provided

Chapter 5

Software Requirements:

FRONTEND:

Eclipse IDE(Java): Version

Java JDK: Version 12

Framework Used - Swing & Jframes

BACKEND:

Database used: MySQL

Chapter 6

Project Design:

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

- Design various blocks for overall system processes.
- Design smaller, compact and workable modules in each block.
- Design various database structures.
- Specify details of programs to achieve desired functionality.
- Design the form of inputs, and outputs of the system.
- Perform documentation of the design.
- System reviews.

3. User Interface Design:

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.
3. Message, instructions or information should be displayed long enough to allow the system user to read them.
4. Use display attributes sparingly.
5. Default values for fields and answers to be entered by the user should be specified.
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

Chapter 7

Project Scheduling:

Sr. No	Group Member	Time duration	Work to be done
1	Divyal Chheda	1st week of January	Implementing 1st module/ functionality: Login form with database and Home tab
		2nd week of January	Testing 1st module: Is user able to login and Home tab is working properly or not
2	Bhavika Band	3rd week of January	Implementing 2nd module/ functionality: Print details & Calendar to set module.
3	Pratik Pandit	By the end of march month	Implementing 3rd module/ functionality: Add client & courier details, track courier & Order details

Chapter 8

Conclusion:

This project has solved the problems caused due to centralization and inefficient updating of a traditional courier management system and has additionally used the help of Cloud Computing to enable scaling and load balancing to enable High Availability and Fault Tolerance. Proper checks and balances have been incorporated into this and have reduced the scope of errors to near zero. Deploying it in the cloud can be done through two services and the company can chose one which suits their purpose. The use of public cloud deployment has been made under the assumption that it will be used for a big scale. The use of data visualization by taking data from the application can be used to measure performances and plan better approaches to achieving the target. Finally, we can say that our project "Online Courier Management System" has developed an easy way to add/update/delete client's details and to book courier and track accordingly. Further enhancements can be made to the project, so that the website functions in a very attractive and useful manner than the present one. It is concluded that the application works well and satisfy the needs. The application is tested very well and errors are properly debugged. It also acts as the sharing of files to the valuable resources.

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