

DATABASE MANAGEMENT SYSTEMS
MINI - PROJECT
TITLE : COURIER MANAGEMENT SYSTEM

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CC COURIERS

AIM :

To develop an interactive web application which places, updates and tracks the delivery status of packages with customer-friendly query support.

MOTIVATION FOR THE PROJECT :

Recently, I faced an issue with one of the famous e-commerce site's delivery policy. They didn't have the facility to deliver my package to another address of friend's as I was unable to receive it. It's policy stated that the alternate address must be given only while the order is placed. I wished to develop an application which tackles this issue and provides the flexibility of adding an alternate address anytime before it is out for delivery.

PROJECT ABSTRACT :

This DBMS Mini-project focuses on various routines followed in logistics which includes placing, updating and tracking delivery packages. This interactive web application provides the facility of tracking the package for the customers, who can access the delivery status of their package using an unique Tracking ID, which displays the date-time details of stages such as Dispatched and shipped from the origin office, also received by the destination office and delivered to the receiver successfully. Also provides the facility to replace the receiver's address by their neighbour's or friend's address of the same city anytime before it is out for delivery from the destination office. For the employees, it provides the facilities of placing new order and update the delivery status of the orders. The delivery charge depends upon the weight of the parcel, source and destination state.

Stacks Used :

1. Frontend Development - HTML5, CSS3, Bootstrap 4
2. Backend Development - PHP7, MySQL
3. XAMPP - PHP Development environment

PROJECT OUTLINE :

This is an interactive web application which provides several logistical features and developed using PHP for server-side scripting and MySQL database. HTML5 and CSS3, along with Bootstrap 4, is used for designing the web application.

Salient features :

- ❖ Delivery status tracking for the customers.
- ❖ Placing new package, updating the status of the existing packages and consignment history for accounting at the staff end.
- ❖ Feature for specifying and arranging delivery to a neighbour or friend any time before it is out for delivery, in case the receiver is unable to receive. This feature is lacked by most of the delivery services and e-commerce sites available and an issue faced by me practically.
- ❖ Customer-friendly feedback and query system.
- ❖ Details about the employee of the month based on credit points and various branch contact details.

There are some more additional and covid specific features I'm planning to implement during the course of the project.

The various relations used to represent the data in the database include :

STAFF (StaffID, Name, Designation, Gender, DOB, DOJ, Salary, Mobile, Email, Credits)

CREDENTIALS (StaffID, Pwd)

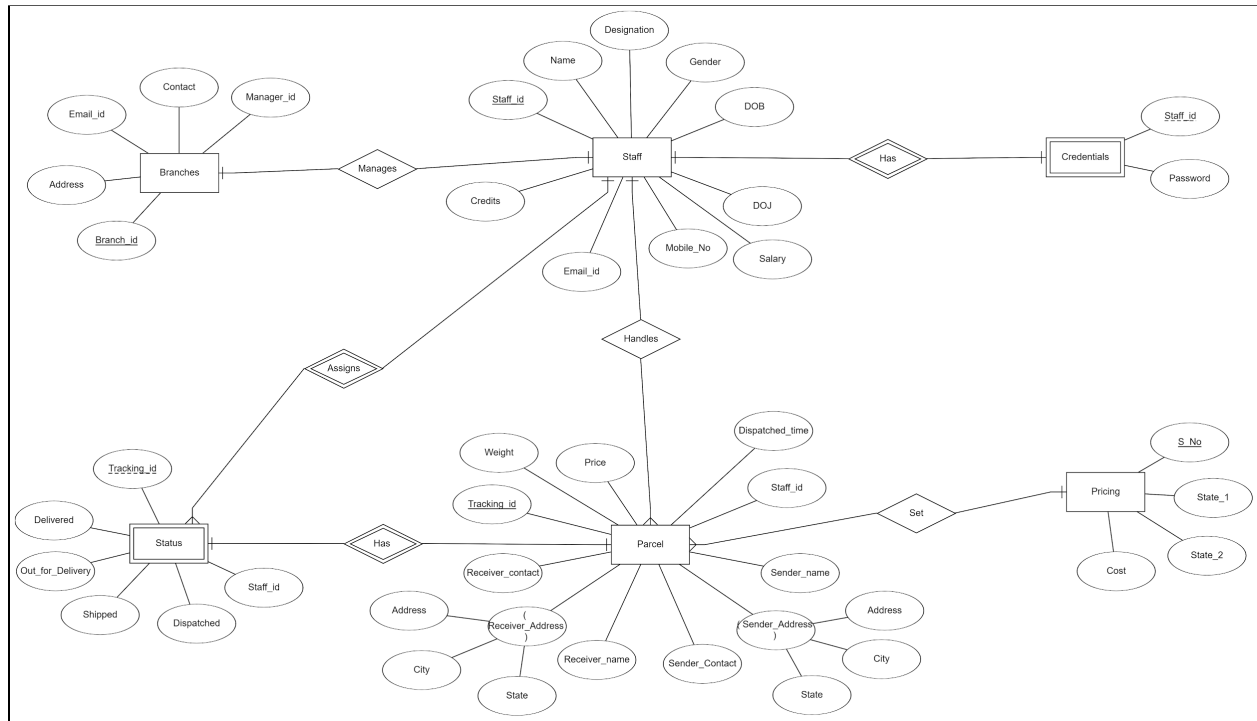
BRANCHES (Branch_id, Address, Contact, Email, Manager_id)

PARCEL (TrackingID, StaffID, S_Name, S_Add, S_City, S_State, S_Contact, R_Name, R_Add, R_City, R_State, R_Contact, Weight_Kg, Price, Dispatched_Time)

PRICING (S.No, State_1, State_2, Cost)

STATUS (TrackingID, StaffID, Dispatched, Shipped, Out_for_delivery, Delivered)

The Entity-Relationship Diagram for the above mentioned relations is as follows,



CONCLUSION :

CC Couriers is a customer-friendly delivery service with flexible policies and proper management system.