DBMS PROJECT

FREIGHT MANAGEMENT SYSTEM

Group Members:

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1. Introduction:

Our Freight management System is a tool that helps ports efficiently handle logistics, inventory and accounts of a port. It offers features such as inventory management, accounts details, payment/order gateways to streamline the shipping process. This software can help ports save time and money by reducing errors and improving the speed and accuracy of their logistics operations by enabling them to make data-driven decisions about their transportation strategy.

2. Technology Used:

a. Front End:
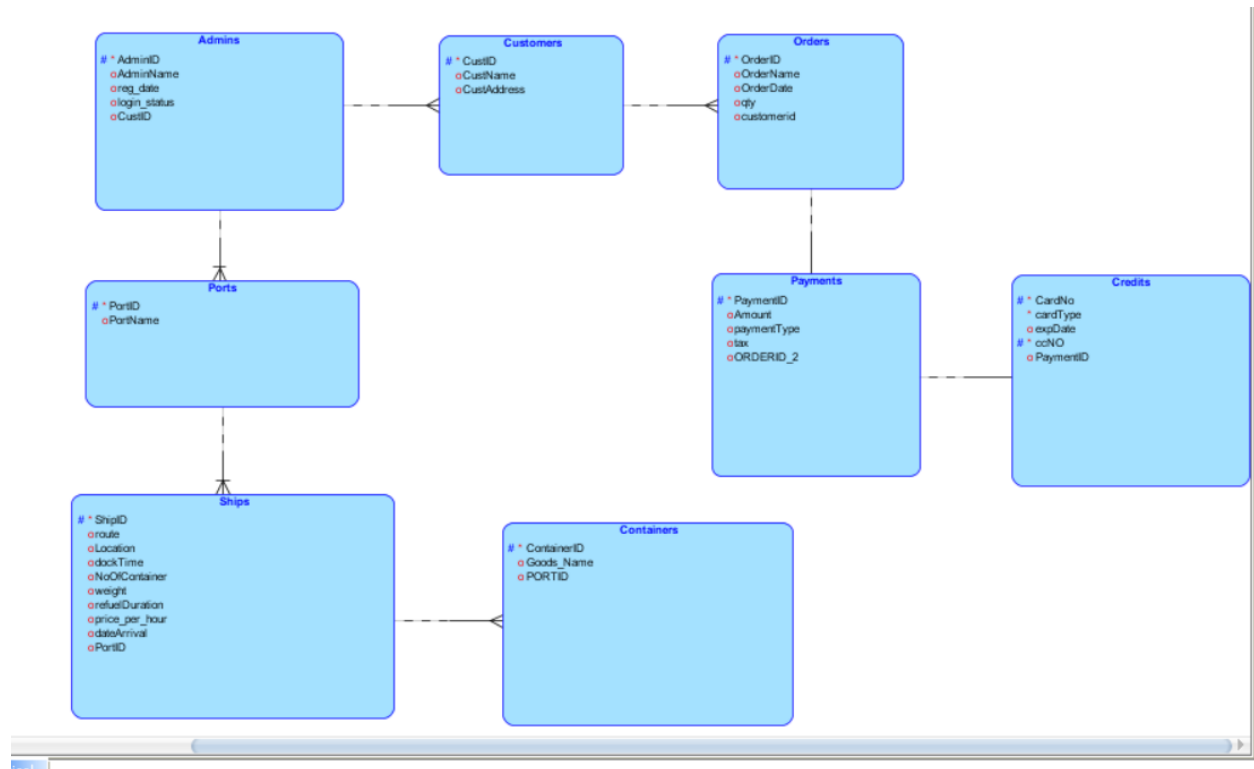 i.   HTML
  ii.   CSS
  iii. Bootstrap

b. Back End:
  i.   Php

c. Database:
  i.   Mysql

3. System Design:

Original schema diagram included inside the project files

4. Normalization:

Customers

CustID	CustName	CustAddress
CustPassword		

Orders

OrderId	OrderName	OrderDate	Qty
CustID			

Payments

PaymentId	Amount	PaymentType	Tax
OrderId			

Credit

CardNo	CCNO	ExpDate	CardType
PaymentId			

Admins

AdminId	AdminName	AdminPassword
RegDate	LoginStatus	

Port

PortId	PortName

Ships

ShipID	Route	Location	DockTime
NoOfContainers		Weight	RefuelDuration
PricePerHour		ArrivalDate	PortId

Containers

ContainerId	GoodsName	ShipId

5. Procedure, Functions (the implemented ones):
a. Create, Read, Update Delete Functionality for the following entities

i.   Payments

Payments

Payment ID	Amount	Payment Type	Tax	Order ID	Update Entry	Delete Entry
1110	1500	CREDIT	5	110	Update Order	Delete Payment
1120	2500	CASH	10	130	Update Order	Delete Payment
1130	3000	CREDIT	20	120	Update Order	Delete Payment

Add New Payment

New Payment

Payment Id: Enter the Payment Id

Amount: Enter the Amount

Payment Type: Enter the payment type

Tax: Enter the TAX %

Order ID: Enter the Order ID

Create new Payment

ii.   Orders

Orders

Order ID	Order Name	Order Date	Quantity	Customer Id	Update Entry	Delete Entry
110	Rice	2022-12-07	15	10	Update Order	Delete Order
120	Sugar	2022-12-07	3	20	Update Order	Delete Order
130	Sugar	2022-12-07	4	30	Update Order	Delete Order
140	chips	2022-12-07	20	40	Update Order	Delete Order

Add New Order

New Order

Order Id: Enter the Orderid

Order Name: Enter the Order Name

Quantity: Enter the Quantity

Customer Id: Enter the Customer Id

submit

iii.   Ships

Ships

Search Port ID to get data of ships docked on that port: [10   ]   [Search for ships]

Ship ID	Route	Docktime	Number of containers	Weight	Refuel Duration	Price per hour	Arrival date	Container Id	Port Id	Delete Entry
110	RED SEA	KARACHI	23:57:47	100	10000	80	50	2022-12-07	10	DELETE

[Add ship]

New Ship

Ship Id: [Enter the Ship Id   ]

Route   [Enter the Route   ]

Location   [Enter the Location   ]

Number of containers   [Enter the Number of containers]

Weight   [Enter the Weight in tonnes   ]

Refuel Duration   [Enter the Refuel Duration in minutes]

Price per hour   [Enter the price per hour   ]

Port Id   [Enter the Port Id   ]

[submit]

Ports

Port ID	Port Name	Delete Entry
10	PEARL HARBOUR	DELETE
20	KEMARI	DELETE
30	MANORA	DELETE

Add Port

New Port

Port Id: Enter the Port Id

Port Name: Enter the Port's Name

submit

Containers

Search Ship Id to see container data: [110] [Submit]

Container Id	Goods name	Delete Entry
1110	sugar	DELETE

[Add container]

New Container

Container Id: [Enter the containerid]

Good's Name: [Enter the Good's Name]

Ship ID: [Enter the new Ship ID]

[submit]

vi.   Credit

New Credit Info

Card Number:

Enter card number

Three digit Security Code:

Enter the three digit security code

Expiry Date:

Enter the expiry date

Card Type:

Enter the card type visa/mastercard

Payment ID:

Enter the payment Id

Create new Credit

b. Log In/Sign Up functionality functionality for:
   i. Admin

ii. Customer

Customer SignIn

Customer Id

Enter Customer Id

Enter Password

Enter Customer Password

Sign In

Sign Up

6. Connectivity Screenshots:

```php
<?php

  try {

    $host = "localhost";
    $dbname = "freight";
    $user = "root";
    $pass = "";

    $conn = new PDO ("mysql:host=$host;dbname=$dbname",$user,$pass);
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

  } catch(PDOException $e) {

    echo "error is: " . $e->getMessage();

  }
```