

University of Cebu - Main College of Computer Studies

Final Project Documentation

Project Title: System Flow Documentation
Course Name: 01669 Information Management
(INTPROG32)

Faculty Name: Mr. Wilson Gayo

Group Members:

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Cyril Cabaron
Kharlwin Zen Cabarrubias
Luis Reyes

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System Overview

The system is designed to manage various aspects of a company's operations, including employee, office, and role management, products and product lines management, inventory and returns management, customers management, customer orders and order details management, customer payments, and transaction handling. The system is built using MySQL and incorporates MySQL basics such as querying, sorting, filtering, joining tables, grouping, subqueries, set operators, modifying, transactions, and stored procedures.

The system's foundation is the classicmodels.sql sample database, which is frequently used to teach and practice MySQL and serves as a useful illustration. An imaginary business that sells models of historic cars is represented by the classicmodels database. There are various tables in it, including "employees" for managing personnel, "offices" managing offices, "products" managing items, "customers" managing customers, and "orders" managing orders.

Information on the company's employees, including their employee numbers, names, jobs, and contact information, are kept in the "employees" table. Office codes, addresses, and phone numbers are all included in the "offices" table's information about various office locations.

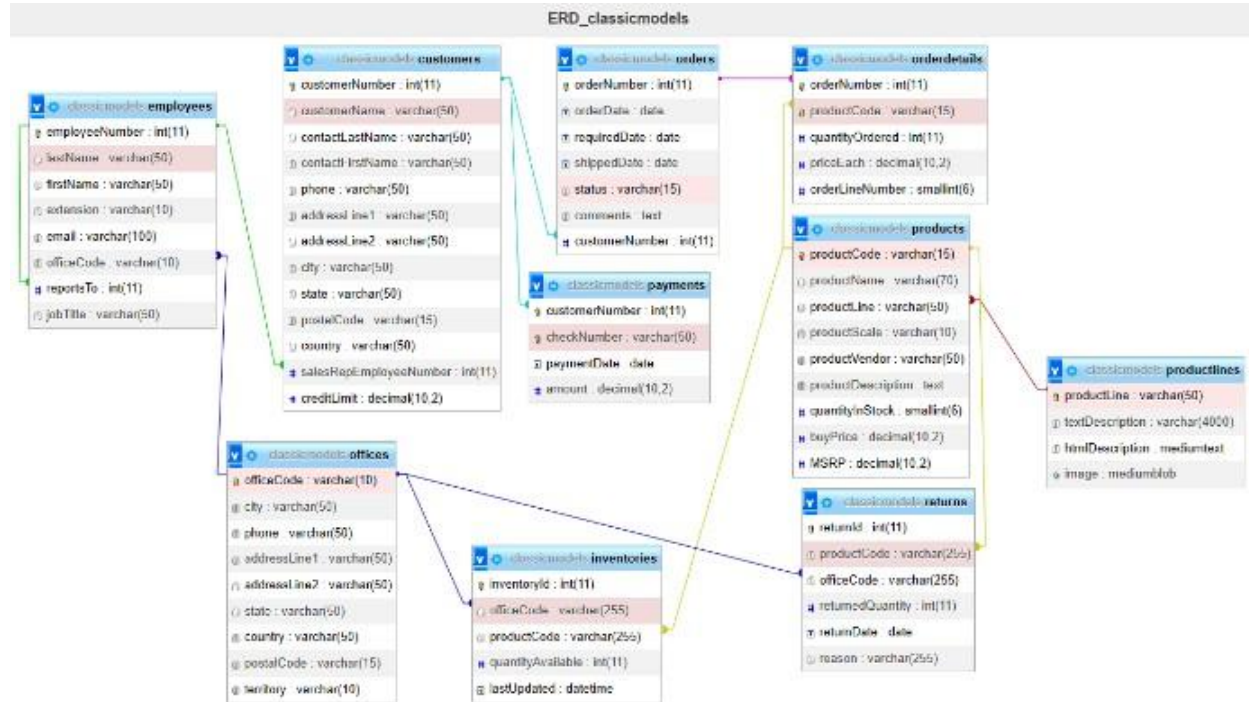
Information on the company's goods and product lines may be found in the "products" table. It contains information such product names, codes, descriptions, and prices. The company's inventory is managed and tracked using this table.

Information on customers, including customer numbers, names, contact information, and credit limits, is kept in the "customers" table. This table is necessary for handling customer interactions and maintaining a database of clients for the business.

Customer orders and their information are managed in the "orders" table. Order numbers, order dates, needed dates, and statuses are all mentioned in this data. The table also keeps track of information on the products ordered, their quantities, and their costs.

In general, the system created using the classicmodels example database provides a comprehensive answer for managing a variety of business activities, including people and office management, product inventory, customer interactions, and financial transactions.

ERD :



Modules

Employee, Office, and Role Management
(Assigned to Luis Reyes assist Butanas)

EMPLOYEES MANAGEMENT						
EMPLOYEE NUMBER	FIRST NAME	LAST NAME	EMAIL	JOB TITLE	ACTION	
1002	Diane	Murphy	dmurphy@classicmodelcars.com	President		
1056	Mary	Patterson	mpatterso@classicmodelcars.com	VP Sales		
1076	Jeff	Firrelli	jfirrelli@classicmodelcars.com	VP Marketing		
1088	William	Patterson	wpatterson@classicmodelcars.com	Sales Manager (APAC)		
1102	Gerard	Bondur	gbondur@classicmodelcars.com	Sale Manager (EMEA)		
1143	Anthony	Bow	abow@classicmodelcars.com	Sales Manager (NA)		
1165	Leslie	Jennings	ljennings@classicmodelcars.com	Sales Rep		
1166	Leslie	Thompson	lthompson@classicmodelcars.com	Sales Rep		
1188	Julie	Firrelli	jfirrelli@classicmodelcars.com	Sales Rep		
1216	Steve	Patterson	spatterson@classicmodelcars.com	Sales Rep		

ADD EMPLOYEE

Employee Number

Lastname

Firstname

Extension

Email

Office Code

Reports To

Job Title

President

ADD EMPLOYEE

EDIT EMPLOYEE

Employee Number

Lastname

Firstname

Extension

1002

Murphy

Diane

x5800

Email

Office Code

Reports To

Job Title

dmurphy@classicmodelcars.co

1

President

SUBMIT

OFFICE MANAGEMENT

Homepage

Go to Employee

+ Add

Office Code	City	Phone	Address Line 1	Address Line 2	State	Country	Postal Code	Territory	Status
1	San Francisco	+1 650 219 4782	100 Market Street	Suite 300	CA	USA	94080	NA	
2	Boston	+1 215 837 0825	1550 Court Place	Suite 102	MA	USA	02107	NA	
3	NYC	+1 212 555 3000	523 East 53rd Street	apt. 5A	NY	USA	10022	NA	
4	Paris	+33 14 723 4404	43 Rue Jouffroy D'abbans			France	75017	EMEA	
5	Tokyo	+81 33 224 5000	4-1 Kioicho		Chiyoda-Ku	Japan	102-8578	Japan	
6	Sydney	+61 2 9264 2451	5-11 Wentworth Avenue	Floor #2		Australia	NSW 2010	APAC	
7	London	+44 20 7877 2041	25 Old Broad Street	Level 7		UK	EC2N 1HN	EMEA	

ADD EMPLOYEE

Employee Number

Lastname

Firstname

Extension

Email

Office Code

Reports To

Job Title

President

ADD EMPLOYEE

EDIT EMPLOYEE

Employee Number	Lastname	Firstname	Extension
<input type="text" value="1002"/>	<input type="text" value="Murphy"/>	<input type="text" value="Diane"/>	<input type="text" value="x5800"/>
Email	Office Code	Reports To	Job Title
<input type="text" value="dmurphy@classicmodelcars.co"/>	<input type="text" value="1"/>	<input type="text"/>	<input type="text" value="President"/>

Products and Product Lines Management (Assigned to Luis Reyes assist Cabaron)

PRODUCT MANAGEMENT

[Homepage](#)
[+ Add](#)

PRODUCT CODE	PRODUCT NAME	PRODUCT LINE	PRODUCT SCALE	PRODUCT VENDOR	PRODUCT DESCRIPTION	QUANTITY IN STOCK	BUY PRICE	MSRP	ACTION
S10_1678	1969 Harley Davidson Ultimate Chopper	Motorcycles	1:10	Min Lin Diecast	This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention.	7933	48.81	95.70	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	Classic Metal Creations	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	7305	98.58	214.30	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
S10_2016	1996 Moto Guzzi 1100i	Motorcycles	1:10	Highway 66 Mini Classics	Official Moto Guzzi logos and insignias, saddle bags located on side of motorcycle, detailed engine, working steering, working suspension, two leather seats, luggage rack, dual exhaust pipes, small saddle bag located on handle bars, two-tone paint with chrome accents, superior die-cast detail, rotating wheels, working kickstand, detailed	6825	68.99	118.94	<input type="button" value="Edit"/> <input type="button" value="Delete"/>








[Activate Windows](#)

ADD PRODUCT

Product Code	Product Name	Product Line	Product Scale	Product Vendor
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product Description	Quantity In Stock	Buy Price	MSRP	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

EDIT PRODUCT

Product Code	Product Name	Product Line	Product Scale	Product Vendor
<input type="text" value="S10_1678"/>	<input type="text" value="1969 Harley Davidson Ultimate C"/>	<input type="text" value="Motorcycles"/>	<input type="text" value="1:10"/>	<input type="text" value="Min Lin Diecast"/>
Product Description	Quantity In Stock	Buy Price	MSRP	
<input type="text" value="This replica features working kic"/>	<input type="text" value="7933"/>	<input type="text" value="48.81"/>	<input type="text" value="95.70"/>	

PRODUCTLINE MANAGEMENT				
Homepage Go to Product		+ Add		
Product Line	Text Description	Html Description	Image	Status
Classic Cars	Attention car enthusiasts: Make your wildest car ownership dreams come true. Whether you are looking for classic muscle cars, dream sports cars or movie-inspired miniatures, you will find great choices in this category. These replicas feature superb attention to detail and craftsmanship and offer features such as working steering system, opening forward compartment, opening rear trunk with removable spare wheel, 4-wheel independent spring suspension, and so on. The models range in size from 1:10 to 1:24 scale and include numerous limited edition and several out-of-production vehicles. All models include a certificate of authenticity from their manufacturers and come fully assembled and ready for display in the home or office.			 
Motorcycles	Our motorcycles are state of the art replicas of classic as well as contemporary motorcycle legends such as Harley Davidson, Ducati and Vespa. Models contain stunning details such as official logos, rotating wheels, working kickstand, front suspension, gear-shift lever, footbrake lever, and drive chain. Materials used include diecast and plastic. The models range in size from 1:10 to 1:50 scale and include numerous limited edition and several out-of-production vehicles. All models come fully assembled and ready for display in the home or office. Most include a certificate of authenticity.			 
Planes	Unique, diecast airplane and helicopter replicas suitable for collections, as well as home, office or classroom decorations. Models contain stunning details such as official logos and insignias, rotating jet engines and propellers, retractable wheels, and so on. Most come fully assembled and with a certificate of authenticity from their manufacturers.			 
Ships	The perfect holiday or anniversary gift for executives, clients, friends, and family. These handcrafted model ships are unique, stunning works of art that will be treasured for generations. These are fully assembled and ready for display in the home or office. We guarantee the			

ADD PRODUCT LINE

Product Line

Text Description

Html Description

Image

ADD PRODUCT LINE

EDIT PRODUCT

Product Line

textDescription

htmlDescription

Product Scale

Classic Cars

Attention car enthusiasts: Make

UPDATE PRODUCTLINE

Inventory and Returns Management
(Assigned to Kharl Cabarrubias)

INVENTORY AND RETURN MANAGEMENT

Homepage + Add

INVENTORY ID	COUNTRY	OFFICE ADDRESS	PRODUCT NAME	QUNATITY AVAILABLE	LAST UPDATED	ACTION
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ADD INVENTORY

Inventory ID

Office Code

Product Code

Quantity Available

ADD INVENTORY

Customers Management
(Assigned to Cyril Cabaron)

CUSTOMERS MANAGEMENT

Homepage + Add

CUSTOMER NUMBER	CUSTOMER NAME	CONTACT LAST NAME	CONTACT FIRST NAME	PHONE	ADDRESS LINE 1	ADDRESS LINE 2	CITY	STATE	POSTAL CODE	COUNTRY	SALES REP EMPLOYEE NUMBER	CREDIT LIMIT	ACTION	
103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Royale		Nantes		44000	France	1370	21000.00		
112	Signal Gift Stores	Kling	Jean	7025551836	8489 Strong St.		Las Vegas	NV	83030	USA	1166	71800.00		
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Victoria	3004	Australia	1611	117300.00		
119	La Rochelle Gifts	Labrune	Janine	40.67.8555	67, rue des Cinquante Otages		Nantes		44000	France	1370	118200.00		
121	Baane Mini Imports	Bergulfen	Jonas	07-98 9555	Erling Skakkes gate 78		Stavern		4110	Norway	1504	81700.00		

ADD CUSTOMER

Customer Number	Customer Name	Contact Last Name	Contact First Name	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Phone	Address Line 1	Address Line 2	City	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
State	Postal Code	Country	Employee Number	Credit Limit
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ADD CUSTOMER

EDIT CUSTOMERS

Customer Number	Customer Name	Contact Last Name	Contact First Name	Phone
103	Atelier graphique	Schmitt	Carine	40.32.2555
Address Line 1	Address Line 2	City	State	Postal Code
54, rue Royale		Nantes		44000
Country	Employee Number	Credit Limit		
France	1370	99999.00		

UPDATE CUSTOMERS

Customers Orders and Order Details Management (Assigned to Lloyd Butanas)

ORDERS							
Homepage		Go to Order Details		+ Add			
ORDER NUMBER	ORDER DATE	REQUIRED DATE	SHIPPED DATE	STATUS	COMMENTS	CUSTOMER NUMBER	ACTION
10100	2003-01-06	2003-01-13	2003-01-10	Shipped		363	
10101	2003-01-09	2003-01-18	2003-01-11	Shipped	Check on availability.	128	
10102	2003-01-10	2003-01-18	2003-01-14	Shipped		181	
10103	2003-01-29	2003-02-07	2003-02-02	Shipped		121	
10104	2003-01-31	2003-02-09	2003-02-01	Shipped		141	
10105	2003-02-11	2003-02-21	2003-02-12	Shipped		145	
10106	2003-02-17	2003-02-24	2003-02-21	Shipped		278	
10107	2003-02-24	2003-03-03	2003-02-26	Shipped	Difficult to negotiate with customer. We need more marketing materials	131	

ADD EMPLOYEE

Employee Number

Lastname

Firstname

Extension

Email

Office Code

Reports To

Job Title

ADD EMPLOYEE

EDIT ORDER

Order Number

Order Date

requiredDate

Shipped Date

Status

Comments

Customer Number





















UPDATE ORDER

ORDER DETAILS

[Homepage](#)

[Go to Orders](#)

[+ Add](#)

ORDER NUMBER	PRODUCT CODE	QUANTITY ORDERED	PRICE EACH	ORDER LINE NUMBER	ACTION
10100	S18_1749	30	136.00	3	 
10100	S18_2248	30	55.09	3	 
10100	S18_4409	30	75.46	3	 
10100	S24_3969	30	35.29	3	 
10101	S18_2325	25	108.06	4	 
10101	S18_2795	26	167.06	1	 
10101	S24_1937	45	32.53	3	 
10101	S24_2022	46	44.35	2	 
10102	S18_1342	39	95.55	2	 
10102	S18_1367	41	43.13	1	 

Activate Windows
Go to Settings to activate Windows.

ADD ORDER DETAILS

Order Number

Product Code

Quantity Ordered

Price Each

Order Line Number

ADD ORDER DETAILS

EDIT ORDER DETAILS

Order Number	Product Code	Quantity Ordered	Price
<input type="text" value="10100"/>	<input type="text" value="S18_1749"/>	<input type="text" value="30"/>	<input type="text" value="136.00"/>

Order Line Number

UPDATE ORDER DETAILS

Customer Payments

(Assigned to Jeff Kirk Vincent Aliganga)

PAYMENT

[Homepage](#)
[Go to Customer](#)
[+ Add](#)

CUSTOMER NUMBER	CHECK NUMBER	PAYMENT DATE	AMOUNT	ACTION
103	HQ336336	2004-10-19	6066.78	
103	JM555205	2003-06-05	14571.44	
103	OM314933	2004-12-18	1676.14	
112	BO864823	2004-12-17	14191.12	
112	HQ55022	2003-06-06	32641.98	

Activate Windows
Go to Settings to activate Windows.

ADD PAYMENT

Product Code	Product Name	Product Line	Product Scale	Product Vendor
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product Description	Quantity In Stock	Buy Price	MSRP	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Add Product

EDIT PAYMENT

Customer Number	Check Number	Payment Date	Amount
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

UPDATE PAYMENT

Transaction Handling (Assigned to Kharl Cabarrubias)

ROUTES

```
// api routes
app.use("/employees", require("./employees/employee.controller"));
app.use("/offices", require("./offices/office.controller"));
app.use("/customers", require("./customers/customers.controller"));
app.use("/products", require("./products/products.controller"));
app.use("/productlines", require("./productlines/productlines.controller"));
app.use("/payments", require("./payments/payment.controller"));
app.use("/orders", require("./orders/orders.controller"));
app.use("/orderdetails", require("./orderdetails/orderdetails.controller"));
app.use("/inventories", require("./inventories/inventory.controller"));
app.use("/returns", require("./returns/returnMgmt.controller"));
```

```
<BrowserRouter>
  <Routes>
    <Route path="/" element={<Home />} />
    <Route path="/employee" element={<Employee/>} />
    <Route path="/office" element={<Office />} />
    <Route path="/customer" element={<Customer />} />
    <Route path="/product" element={<Product />} />
    <Route path="/inventory" element={<Inventory />} />
    <Route path="/productline" element={<ProductLine />} />
    <Route path="/orders" element={<Order />} />
    <Route path="/orderdetails" element = {<Orderdetails/>}/>
    <Route path="/payments" element = {<Payment/>}/>
  </Routes>
```

Conclusion

The system flow described above provides a comprehensive solution for managing employee, office, product, customer, order, and payment-related operations. The system offers

powerful querying, sorting, filtering, joining, and modifying capabilities by leveraging MySQL basics and incorporating essential SQL queries. The utilization of transactions ensures data consistency and reliability during payment processing. The system's structure is based on the classicmodels.sql sample database, allowing seamless integration and easy adoption for organizations using MySQL.

Terminal

API – npm run start:dev

FrontEnd – npm run dev

GitHub Link

https://github.com/lloydButanas/IPT_FinalsProject.git