07/05/2025

**TITLE : Restaurant Order Management System**

**Product name : DINE SMART**

List of similar projects:

|  |  |  |
| --- | --- | --- |
| Product name | Features | URL |
| KFC | Order management, Inventory management, Payment processing, Customer loyalty programs, Reporting & analytics. | https://online.kfc.co.in/ |

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**Contribution:**

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->Form design

->Data base connection

->Reports

->schema design

sites.google.com

Portfolio

Github : https://github.com/ManishaaRamachandran

Leetcode

Table name :

1. Menu\_master(master table)
2. Order\_transaction(transaction table)
3. Order\_summary(transaction table)

Menu\_master(master table):

* Item\_id(priamary key)
* item\_name
* category
* price
* is\_available

Order\_transaction(transaction table):

* Order\_id(priamary key)
* Item\_id (foreing key)
* Quantity

Order\_summary(transaction table)

* Order\_id(foreign key)
* Order\_time
* Total\_amount

REPORT TABLE

Daily\_report :  
 Report\_id

Report\_date

Total\_orders

Total\_sales

Create Table:

CREATE TABLE menu\_master (

item\_id INT PRIMARY KEY AUTO\_INCREMENT,

item\_name VARCHAR(100) NOT NULL,

category VARCHAR(50),

price DECIMAL(8,2) NOT NULL,

is\_available BOOLEAN DEFAULT TRUE

);

SELECT \* FROM menu\_master;

INSERT INTO menu\_master (item\_id, item\_name, category, price, is\_available)

VALUES ('Id\_001', 'Paneer Butter Masala', 'Main Course', 180.00, TRUE);

Key Words:

Relation-menu\_master,

Attributes-Item\_id,

Domain-Id\_001,

Tuple-('Id\_001', 'Paneer Butter Masala', 'Main Course', 180.00, TRUE)

**Database normalization**

* 1NF
* 2NF
* 3NF
* 4NF
* 5NF

Tablename : menu\_master

1NF:

My table is 1NF because it has a primary key name --item\_id

2NF:

My table is in 2NF because it has a primary key --Item\_id,all other columns are dependent on the primary key.

3NF:

Should be in 2NF,No transitive partial dependency

Example: Student\_id, name , job\_id, state\_id,state\_name

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student\_id | name | job\_id | Job\_name | state\_id | state\_name |
| 927623bad058 | Manisha | J\_0158 | Software engineer | 0234 | Palayajeyankondam |

1NF:

Student\_Id,name->because it does’t have duplicate Id

2NF:

Student\_role , student\_id , job\_id

Student info table -student\_id ,student\_name ,state\_name , student\_phonenumber

Job table-job\_id, job\_name

3 NF:

Student roll table

Student info table -student\_id,student\_name,state\_id

Job table-state\_id,state\_name

Frontend : HTML,CSS,React.js,tailwind CSS , Flask,andriod,Flutter

Backend : MySQL,oracle,mangodb,json,SQL lite , firebase

Editor : visual studio code

Server:XAMPP

Frame work :Nodejs

Language : Python,PHP 5.x and PHP 7.x/8.x

Example

Xml

<XML>

<menu\_master>

<item>

<item\_id>Id\_001</item\_id>

<item\_name>Paneer Butter Masala</item\_name>

<category>Main Course</category>

<price>180.00</price>

<is\_available>true</is\_available>

</item>

<item>

<item\_id>Id\_002</item\_id>

<item\_name>Chole Bhature</item\_name>

<category>Main Course</category>

<price>120.00</price>

<is\_available>true</is\_available>

</item>

</menu\_master>

</XML>

DTD

<!DOCTYPE menu\_master [

<!ELEMENT menu\_master (item+)>

<!ELEMENT item (item\_id, item\_name, category, price, is\_available)>

<!ELEMENT item\_id (#PCDATA)>

<!ELEMENT item\_name (#PCDATA)>

<!ELEMENT category (#PCDATA)>

<!ELEMENT price (#PCDATA)>

<!ELEMENT is\_available (#PCDATA)>

]>

DTD with no elements

<!ELEMENT login EMPTY>

<!ATTLIST login timeout CADTA”1”>

XML

<login timeout=”100”></login>

JOIN :

INNER JOIN:

SELECT

ot.order\_id,

mm.item\_name,

ot.quantity,

mm.price,

(ot.quantity \* mm.price) AS total\_amount

FROM order\_transaction ot

INNER JOIN menu\_master mm

ON ot.item\_id = mm.item\_id;

MODULE DETAILS

|  |  |  |
| --- | --- | --- |
| MODULE NAME | SUB MODULE DETAILS | DESCRIPTION |
| Order Management | Order Creation | This submodule allows the creation of new customer orders by selecting items from the menu, specifying quantity, and assigning it to a table or customer. |
| Order Status Update | Updates the status of an order (e.g., Pending, In Progress, Completed, Cancelled) based on the preparation and delivery process. |
| Payment Processing | Manages the payment for completed orders, including handling cash, card, or online payment methods. |
| Order History | Stores and displays past orders, including items ordered, prices, and customer details, allowing for easy re-ordering and analysis. |

FORM DETAILS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MODULE / SUB MODULE NAME | FORM NAME -TYPE | FORM DESCRIPTION | TABLE NAME - TYPE | TABLE DESCRIPTION |
| Order Management / Order Creation | Create Order Form - Input Form | Allows restaurant staff to create a new customer order by selecting items, quantity, and assigning to a customer/table. | order\_transaction - transaction Table | Stores order details such as order ID, item IDs, quantities, and status. |
| Order Management / Order Status Update | Update Order Status Form - Input Form | Allows staff to update the status of an order (Pending, In Progress, Completed, Cancelled). | order\_status - transaction Table | Stores different order statuses like Pending, In Progress, Completed, Cancelled. |
| Order Management / Payment Processing | Payment Form - Input Form | Displays real-time updates of an order's progress, including estimated delivery time. | order\_tracking - transaction Table | Contains tracking information of orders, including status and timestamps. |

ER DIAGRAM :

Order\_transaction

Order\_id

Order\_summary

Order\_time

Total\_amount

quantity

Order\_id

Item\_id

Item\_name

category

price

Item\_id

Is\_available

Menu\_master