

OBJECTIVE

To develop a simple system for managing customer purchase orders.

To create a functional application by using supporting tools, methodologies, and technologies – which encapsulates all fundamental modules.



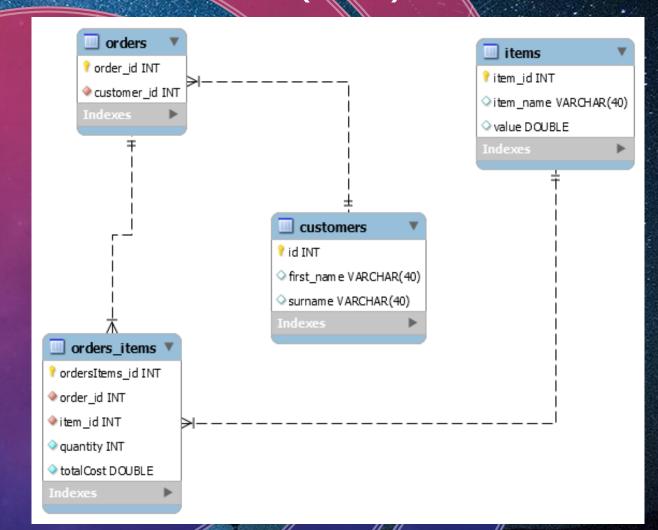
TECHNOLOGIES

- Version Control System: Git
- Source Code Management: GitHub
- Kanban Board: Jira
- Database Management System: MySQL Server
- Back-End Programming Language: Java
- Build Tool: Maven
- Unit Testing: Junit and Mockito

ENTITY-RELATIONSHIP DIAGRAM(ERD)

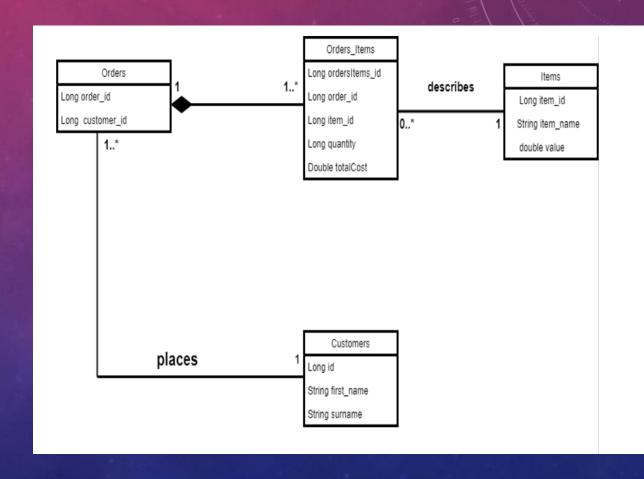
• ERD stands for Entity Relationship
Diagram and it is basically a snapshot or
summary of various data structures.

• ERD is designed to show the entities present in a database as well as the relationship between tables in that database.



ORDER ITEM RELATIONSHIP UML DIAGRAM

- UML(Unified Modeling Language)
 is class diagram used to construct and
 visualize object oriented systems.
- Orders_items and orders relationship is composition.



CODE DEMO ITEMS TABLE

```
Runner (7) [Java Application] C:\Users\Owner\Downloads\eclipse-java-2021-03-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hots
ORDERITEM: Order of Items
STOP: To close the application
Item
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
create
Please enter a item name
Please enter a value
80.00
Item created
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Item [item id: 1, item name: Laptop, value: 1494.0]
Item [item id: 2, item name: Bag, value: 86.09]
Item [item id: 3, item name: Flower, value: 20.09]
Item [item id: 4, item name: Book, value: 189.0]
Item [item id: 5, item name: Chair, value: 1289.0]
Item [item id: 6, item name: ipad, value: 1000.0]
Item [item id: 8, item name: Shoe, value: 80.0]
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
```

```
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
update
Please enter the id of the item you would like to update
Please enter a Item name
Cup
Please enter a value
20.00
Item Updated
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter the id of the Item you would like to delete
Item Deleted
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Item [item id: 1, item name: Laptop, value: 1494.0]
Item [item id: 2, item name: Bag, value: 86.09]
Item [item id: 3, item name: Flower, value: 20.09]
Item [item_id: 4, item_name: Book, value: 189.0]
Item [item id: 5, item name: Chair, value: 1289.0]
Item [item id: 6, item name: ipad, value: 1000.0]
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
```

CODE DEMO FOR ORDERS TABLE

```
Welcome to the Inventory Management System!
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
ORDERITEM: Order of Items
STOP: To close the application
order
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
create
Please enter a customer id
Order created
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Order [order id: 4, customer id: 1]
Order [order_id: 1, customer_id: 2]
Order [order id: 5, customer id: 2]
Order [order id: 2, customer id: 3]
Order [order id: 6, customer id: 3]
Order [order id: 9, customer id: 3]
Order [order id: 3, customer id: 4]
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
```

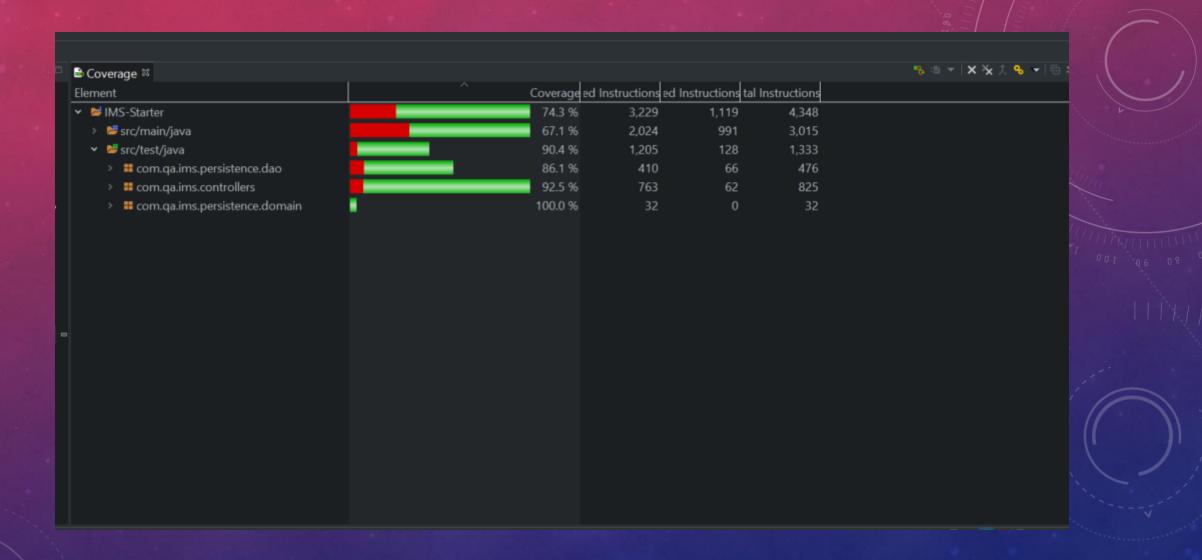
```
Please enter a customer id
Order Updated
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Order [order id: 4, customer id: 1]
Order [order id: 1, customer id: 2]
Order [order id: 3, customer id: 2]
Order [order id: 5, customer id: 2]
Order [order id: 2, customer id: 3]
Order [order_id: 6, customer_id: 3]
Order [order id: 9, customer id: 3]
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter the id of the order you would like to delete
Order Deleted
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Order [order id: 4, customer id: 1]
Order [order id: 1, customer id: 2]
Order [order_id: 3, customer_id: 2]
Order [order id: 5, customer id: 2]
Order [order id: 2, customer id: 3]
Order [order_id: 6, customer_id: 3]
What would you like to do with order:
CREATE: To save a new entity into the database
```

ORDERS_ITEMS CODE DEMO

```
welcome to the inventory Management System:
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
ORDERITEM: Order of Items
STOP: To close the application
orderitem
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
create
Please enter a order id
Please enter a item id
Please enter a quantity
ItemOrderd created
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
OrderItem [ordersItems_id: 1, order_id: 2, item_id: 3, quantity: 3, totalCost: 60.26999999999999999
OrderItem [ordersItems id: 2, order id: 4, item id: 2, quantity: 2, totalCost: 172.18]
OrderItem [ordersItems id: 3, order id: 4, item id: 3, quantity: 3, totalCost: 60.269999999999999]
OrderItem [ordersItems_id: 4, order_id: 5, item_id: 1, quantity: 2, totalCost: 2988.0]
OrderItem [ordersItems id: 5, order id: 3, item id: 1, quantity: 3, totalCost: 4482.0]
OrderItem [ordersItems_id: 6, order_id: 2, item_id: 4, quantity: 2, totalCost: 378.0]
OrderItem [ordersItems id: 9, order id: 3, item id: 5, quantity: 8, totalCost: 10312.0]
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
```

```
Please enter a item_id
Please enter a quantity
Order item Updated
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
OrderItem [ordersItems id: 2, order id: 4, item id: 2, quantity: 2, totalCost: 172.18]
OrderItem [ordersItems id: 4, order id: 5, item id: 1, quantity: 2, totalCost: 2988.0]
OrderItem [ordersItems id: 5, order id: 3, item id: 1, quantity: 3, totalCost: 4482.0]
OrderItem [ordersItems_id: 6, order_id: 2, item_id: 4, quantity: 2, totalCost: 378.0]
OrderItem [ordersItems id: 9, order id: 1, item id: 1, quantity: 4, totalCost: 5976.0]
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter the id of the order item you would like to delete
order item Deleted
What would you like to do with orderitem:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
OrderItem [ordersItems id: 2, order id: 4, item id: 2, quantity: 2, totalCost: 172.18]
OrderItem [ordersItems id: 3, order id: 4, item id: 3, quantity: 3, totalCost: 60.269999999999999]
OrderItem [ordersItems id: 4, order id: 5, item id: 1, quantity: 2, totalCost: 2988.0]
OrderItem [ordersItems id: 5, order id: 3, item id: 1, quantity: 3, totalCost: 4482.0]
OrderItem [ordersItems id: 6, order id: 2, item id: 4, quantity: 2, totalCost: 378.0]
```

TEST CODE DEMO



Α	В	С	D	Е	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	S	Т
															SEVERITY				
	Risk	Result of risk	known problems	Likelihood	Impact	Risk Level	mitigation	Likelihood	Impact	Risk Level				Minimal	Minor	Moderate	Major	Severe	
1	covid-19	time delay on submiting project	pandemic is ongoing	2	4	6	Washing Mask distance	1	4	4			Guaranteed	5	10	15	20	25	
2	Lack of project understanding	turn in a non functiong project	Lack of technical understandind of the function	3	5	15	Read project fundamenta ls	1	4	4			Expected	4	8	12	16	20	
3	Sofware stops working	Databses not functioning	non-functional project	1	5	5	Test funcionalt y	1	5	5		LIKELIHOOD	Likely	3	6	9	12	15	
4	internet issues	submit unfinished project	miss out on project working time	1	5	5	Have everything backed up	3	5	15			Possible	2	4	6	00	10	
5	mismeasure time	Not organizing time	working harder and causing stress to try and finish	1	5	5	Set goals each day and execute	4	5	20			Unlikely	1	2	3	4	5	
6	loosing data	computer hard drive crash	Project work tha was completed get's erased	1	5	5	make sure everything backed up	1	5	5									

