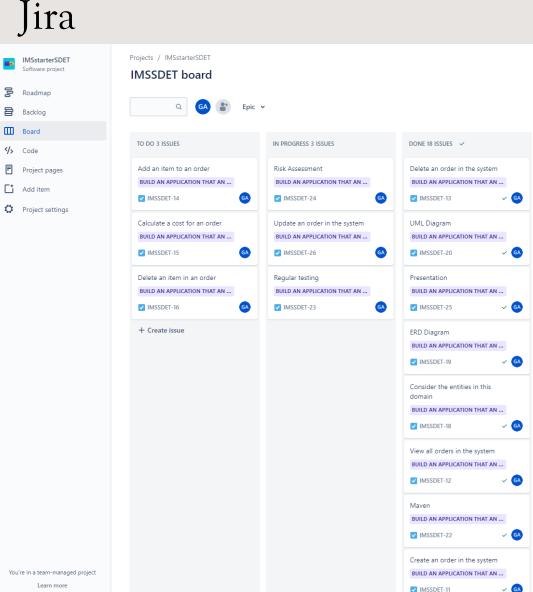
Inventory
Management
System

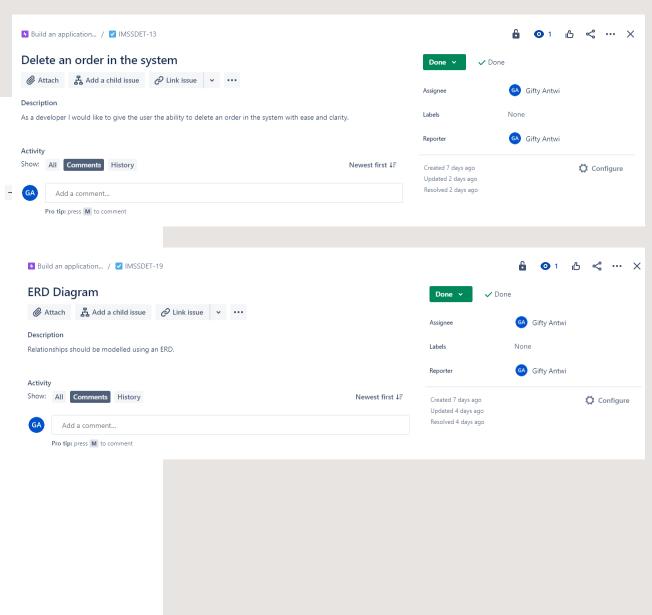
By Gifty Antwi



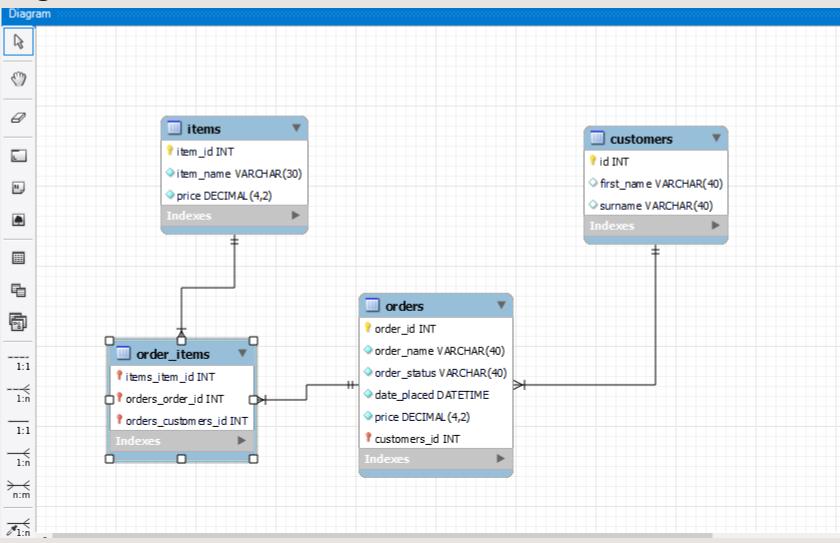
## Introduction

- · Specification create and test application
- · Planning Jira, ERD (MYSQL), UML
- GitHub
- · Java via Eclispe
- · Testing junit & Mokito





# ERD Diagram



#### Database - Schema

```
drop schema ims;
       CREATE SCHEMA IF NOT EXISTS 'ims';
 3
       USE 'ims';
 5
 6 ● ⊖ CREATE TABLE IF NOT EXISTS `ims`.`customers` (
           'id' INT(11) NOT NULL AUTO_INCREMENT,
 7
           `first name` VARCHAR(40) DEFAULT NULL,
 8
           `surname` VARCHAR(40) DEFAULT NULL,
 9
           PRIMARY KEY ('id')
10
11
     ٠);
12
13 • ⊖ CREATE TABLE IF NOT EXISTS `ims`.`items`(
           'item id' INT(11) NOT NULL AUTO INCREMENT,
14
           'item name' VARCHAR(30) NOT NULL,
15
16
           `price` DECIMAL(4,2) NOT NULL,
           PRIMARY KEY(`item id`)
17
       );
18
19
20 • ⊖ CREATE TABLE IF NOT EXISTS `ims`.`orders`(
           `order id` INT(11) NOT NULL AUTO INCREMENT,
21
```

```
19

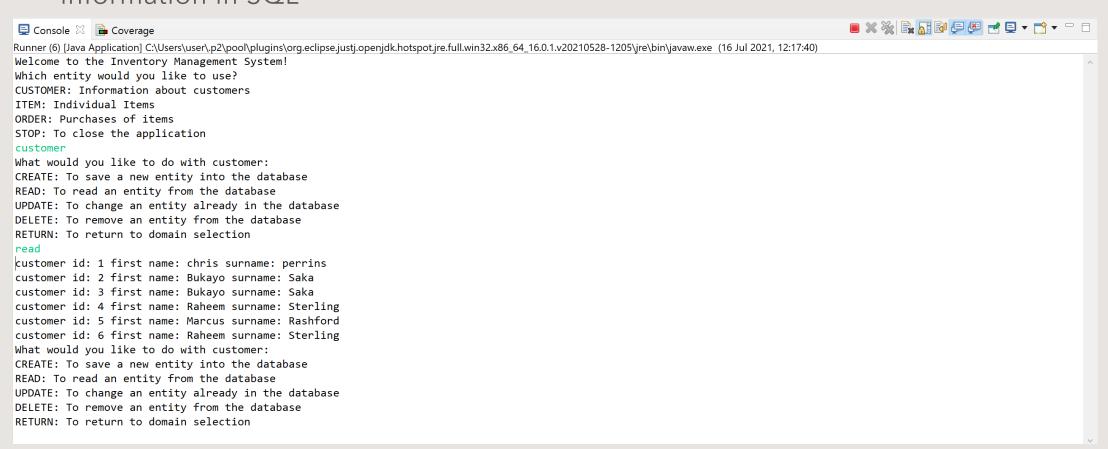
    ○ CREATE TABLE IF NOT EXISTS `ims`.`orders`(
           `order id` INT(11) NOT NULL AUTO INCREMENT,
21
           `order name` VARCHAR(40) NOT NULL,
22
           `order status` VARCHAR(40) NOT NULL,
24
           `date placed` DATETIME(6) NOT NULL,
           `price` DECIMAL(4,2) NOT NULL,
25
           PRIMARY KEY(`order id`)
26
       );
27
28
    ○ CREATE TABLE IF NOT EXISTS `ims`.`orders items`(
           `item id` INT(11) NOT NULL,
30
           `order id` INT(11) NOT NULL,
31
           FOREIGN KEY('order id') REFERENCES 'orders'('order id'),
32
           FOREIGN KEY('item id') REFERENCES 'items'('item id')
33
34
           );
35
```

### Database - Data

```
INSERT INTO `ims`.`customers` (`first name`, `surname`) VALUES ('Bukayo', 'Saka');
1 •
2 •
       INSERT INTO `ims`.`customers` (`first name`, `surname`) VALUES ('Marcus', 'Rashford');
       INSERT INTO `ims`.`customers` (`first name`, `surname`) VALUES ('Jadon', 'Sancho');
3 •
       INSERT INTO `ims`.`customers` (`first name`, `surname`) VALUES ('Raheem', 'Sterling');
4 •
5
       INSERT INTO `testingims`.`customers` (`first name`, `surname`) VALUES ('Raheem', 'Sterling');
6 •
7 •
       INSERT INTO `testingims`.`customers` (`first name`, `surname`) VALUES ('Bukayo', 'Saka');
       INSERT INTO `testingims`.`items`(`item name`, `price`) VALUES ('Gym Socks', '15.99');
8 •
       INSERT INTO `testingims`.`items`(`item_name`, `price`) VALUES ('Apple', '0.15');
9 •
       INSERT INTO `testingims`.`items`(`item name`, `price`) VALUES ('Water', '1.50');
10 •
       INSERT INTO `testingims`.`items`(`item_name`, `price`) VALUES ('Protein Shake', '2.29');
11 •
12 •
       INSERT INTO 'testingims'.'orders' ('order name', 'order status', 'date placed', 'price') VALUES ('BS7', 'Processing', '20210712', '3."
       INSERT INTO 'testingims'.'orders items' ('item id', 'order id') VALUES (1,1);
13 •
14
```

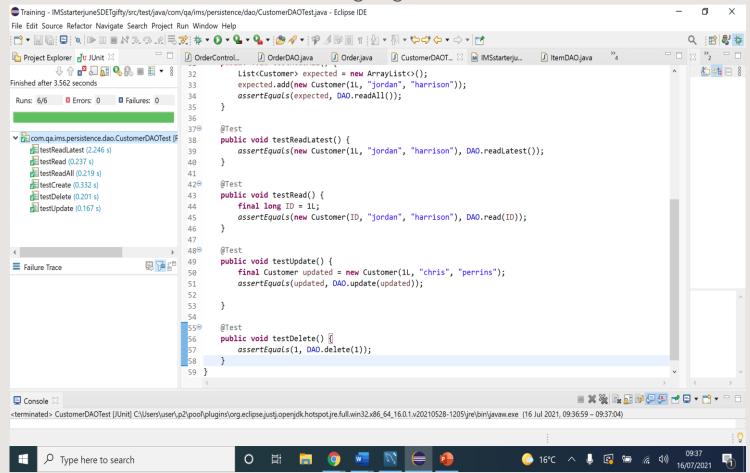
## Demonstration of Application

 DAO = Database Access Object - allows controller to access the database information in SQL



## Testing

- · Mokito Creates a mock item so you can test without creating a database
- · Junit running code under various circumstances to highlight where issues occur



#### Composition line = child cannot exist without the parent

## UML Diagram

