IMS Project

BY CAMERON OFOLUWA
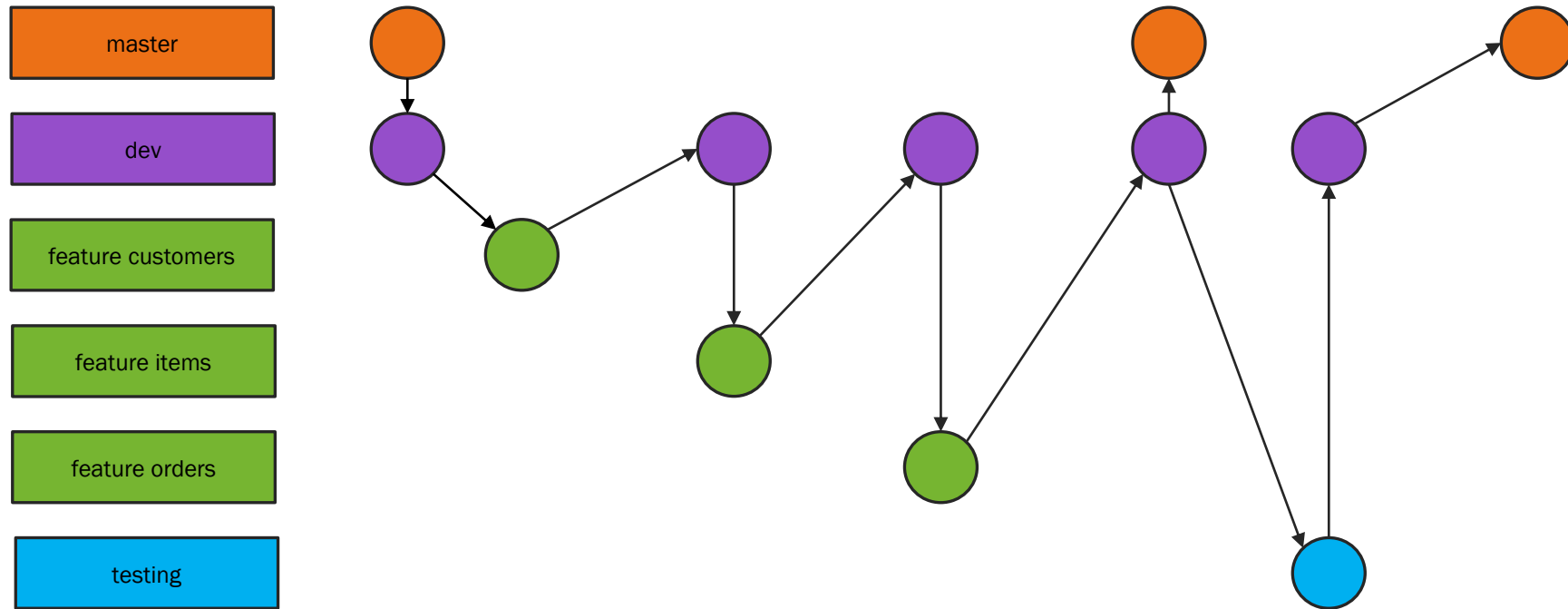
Consultant Journey

Java, Junit, Maven, Mockito & SonarQube — *Coding & Testing*

SQL & MySQL Workbench — *Databases*

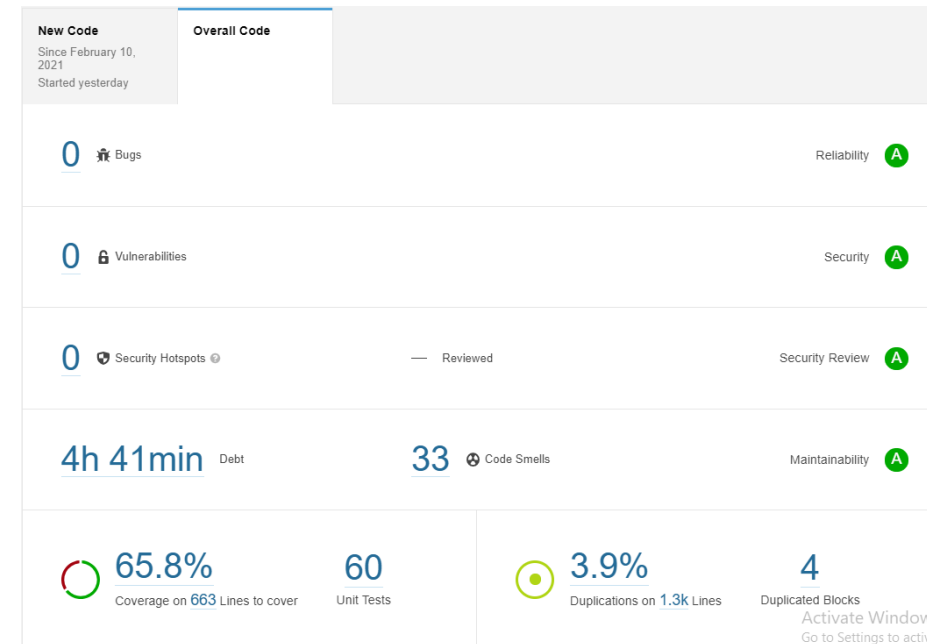Git, GitHub & Jira — *Version Control & Project Management*

Continuous Integration

Testing

I was able to reach a total testing coverage of 83.1%, this was achieved by testing the majority of classes from the *domain*, *controller*, *dao* and *utils* packages.

Demonstration // Customers

```
Welcome to the Inventory Management System!
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
STOP: To close the application
customer
```

```
What would you like to do with customer:
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 first name
Cameron
Please enter a surname
Ofoluwa
Created user with first name Cameron & surname Ofoluwa
Customer created
```

customerID	firstName	surname
2	cammy	cam
4	sarah	smith
6	Cameron	Ofoluwa
NULL	NULL	NULL

```
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
update
```

```
Please enter the id of the customer you would like to update
6
Please enter a first name
Cameron
Please enter a surname
Smith
Customer Updated
```

customerID	firstName	surname
2	cammy	cam
4	sarah	smith
6	Cameron	Smith
NULL	NULL	NULL

```
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
```

```
delete
Please enter the id of the customer you would like to delete
6
Deleted user with customerID 6
```

customerID	firstName	surname
2	cammy	cam
4	sarah	smith
NULL	NULL	NULL

IP-13 As a user, I want to delete a customer from the system

IP-12 As a user, I want to update a customer in the system

IP-10 As a user, I want to add a customer to the system

Demonstration // Items

```
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases 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 product name
Computer
Please enter product description
A Windows Computer
Please enter product value
199.99
Please enter product stock level
5
Item added to system.
```

productID	productName	productDescription	productValue	productStockLevels
2	kettle	A kettle	500	1
3	Pen	A Pen	1	100
4	Paper	Stack of paper	5	200
5	Computer	A Windows Computer	199.99	5
NULL	NULL	NULL	NULL	NULL

```
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
update
```

```
Please enter the id of the item you would like to update
5
Please enter product name
Dell PC
Please enter product description
A Dell PC
Please enter product value
199.99
Please enter product stock level
5
Item Updated
```

productID	productName	productDescription	productValue	productStockLevels
2	kettle	A kettle	500	1
3	Pen	A Pen	1	100
4	Paper	Stack of paper	5	200
5	Dell PC	A Dell PC	199.99	5
NULL	NULL	NULL	NULL	NULL

```
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
5
Item Deleted
```

productID	productName	productDescription	productValue	productStockLevels
2	kettle	A kettle	500	1
3	Pen	A Pen	1	100
4	Paper	Stack of paper	5	200
NULL	NULL	NULL	NULL	NULL

IP-17 As a user, I want to delete an item from the system ✓

IP-16 As a user, I want to update an item in the system ✓

IP-14 As a user, I want to add an item to the system ✓

Demonstration // Orders


```
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
STOP: To close the application
orders
Invalid selection please try again
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 valid customer id
4
Please enter an item id =
3
Please enter item quantity =
1

Add a new item? '1' = Yes, '0' = No
1
Please enter an item id =
4
Please enter item quantity =
5

Add a new item? '1' = Yes, '0' = No
0

Customer order 6 added to the system.
```

```
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
update
```

```
Please enter the id of the order you would like to update
6
Do you want  to 'add' or 'delete' an item?
add
add
Please enter an item id =
2
Please enter item quantity =
1
```

ordersID	customerID
2	2
3	2
4	2
5	2
6	4
NULL	NULL

orderlineID	ordersID	productID	orderlineQuantity
3	2	2	2
4	3	3	10
5	3	4	4
6	3	4	4
7	4	3	10
8	4	4	2
9	5	2	2
10	6	3	1
11	6	4	5
NULL	NULL	NULL	NULL

orderlineID	ordersID	productID	orderlineQuantity
3	2	2	2
4	3	3	10
5	3	4	4
6	3	4	4
7	4	3	10
8	4	4	2
9	5	2	2
10	6	3	1
11	6	4	5
12	6	2	1
NULL	NULL	NULL	NULL

Demonstration // Orders 2

```
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
```

```
Enter order ID you want to delete :
6
Deleted order with ID 6
```
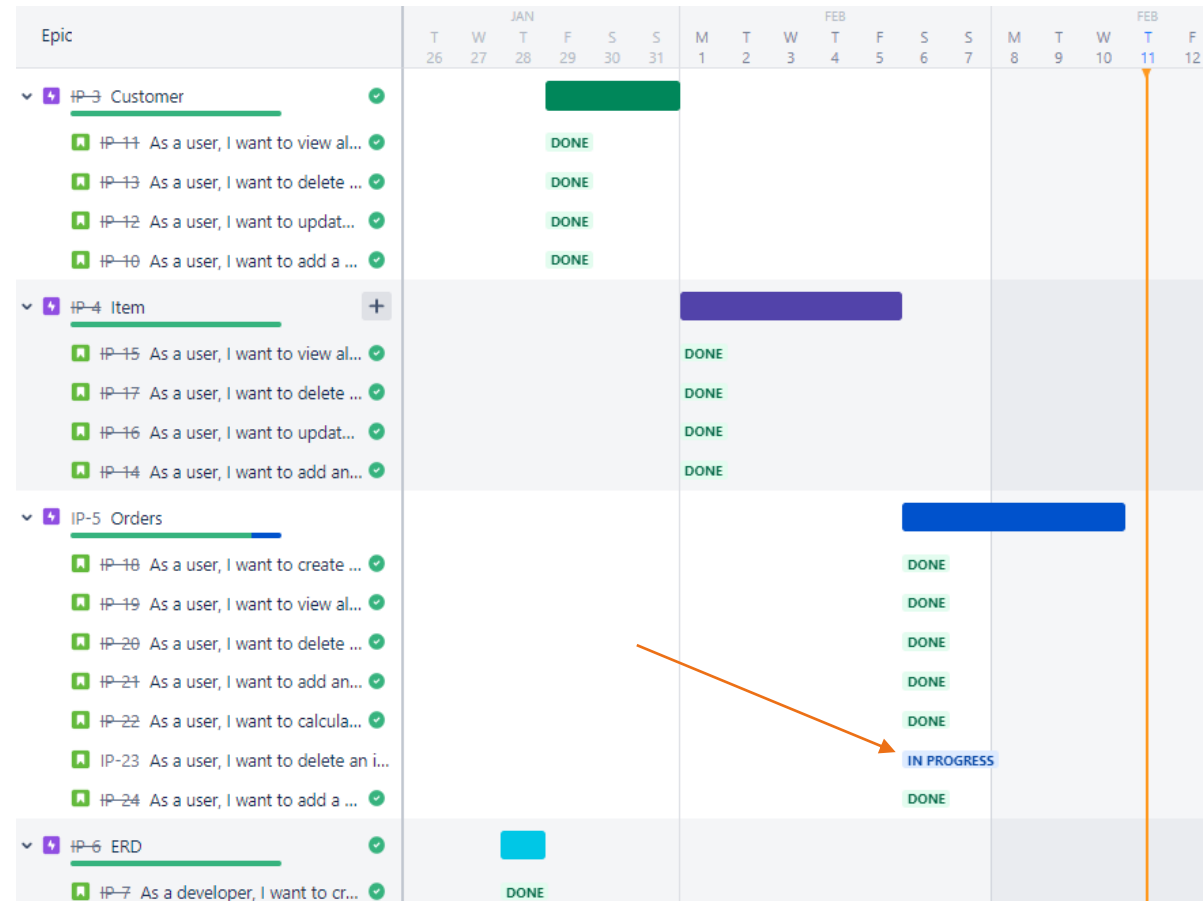
	orderlineID	ordersID	productID	orderlineQuantity
▶	3	2	2	2
	4	3	3	10
	5	3	4	4
	6	3	4	4
	7	4	3	10
	8	4	4	2
	9	5	2	2
*	NULL	NULL	NULL	NULL

	ordersID	customerID
▶	2	2
	3	2
	4	2
	5	2
*	NULL	NULL

```
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases 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
read
Order ID = 2 Customer ID = 2 Product ID = 2 order Value = £1000.0
Order ID = 3 Customer ID = 2 Product ID = 3 order Value = £10.0
Order ID = 3 Customer ID = 2 Product ID = 4 order Value = £40.0
Order ID = 4 Customer ID = 2 Product ID = 3 order Value = £10.0
Order ID = 4 Customer ID = 2 Product ID = 4 order Value = £10.0
Order ID = 5 Customer ID = 2 Product ID = 2 order Value = £1000.0
Order ID = 8 Customer ID = 2 Product ID = 2 order Value = £500.0
Order ID = 10 Customer ID = 2 Product ID = 3 order Value = £2.0
```

IP-24 As a user, I want to add a customer to an order ✔

IP-18 As a user, I want to create an order in the system ✔

IP-19 As a user, I want to view all orders in the system ✔

IP-20 As a user, I want to delete an order from the system ✔

IP-21 As a user, I want to add an item to an order ✔

Sprint Review

As far as Sprints went, they all went perfect other than the final sprint when *orders* & *orderlines* were being implemented.

Sprint Retrospective

What went well?
What didn't go well?
What did I learn?

Conclusion

Overall, I'm the project went really well, but there is definitely changes I would make for next time.

Questions?