



# IMS Project

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BY CAMERON OFOLUWA

# Consultant Journey

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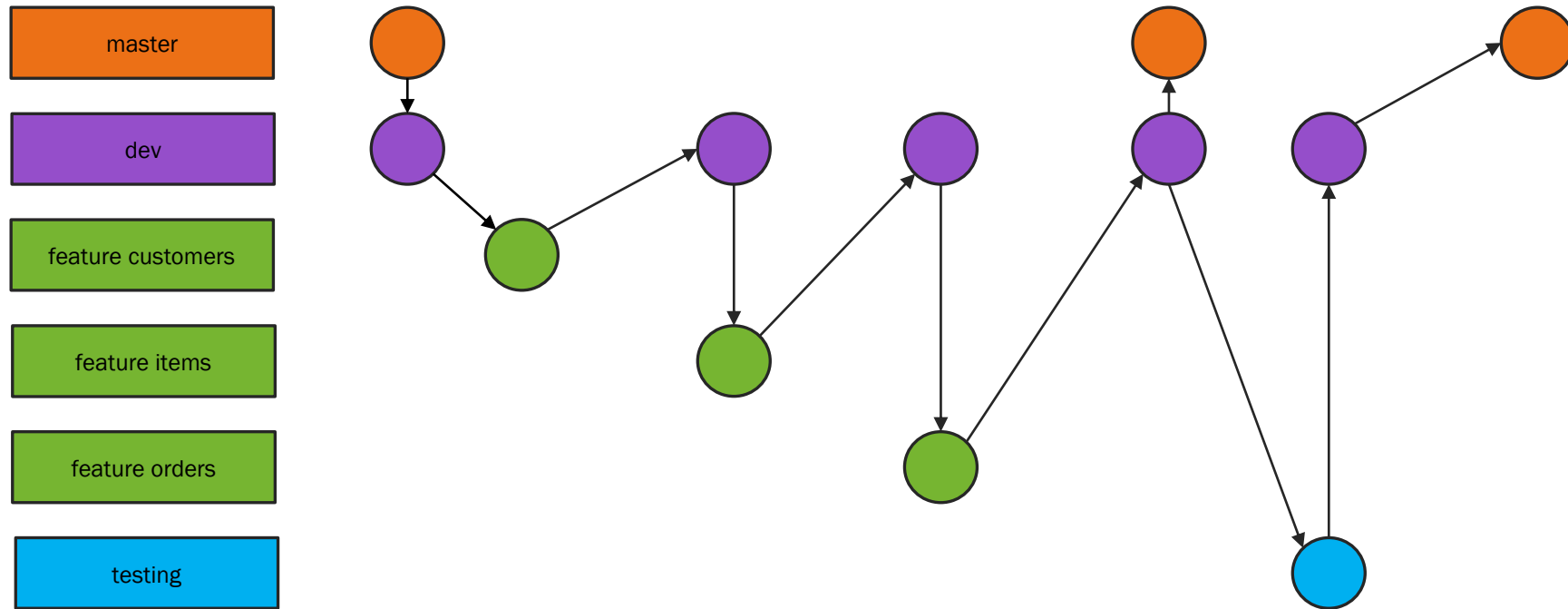
Java, Junit, Maven, Mockito & SonarQube – *Coding & Testing*

SQL & MySQL Workbench – *Databases*

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






# Continuous Integration

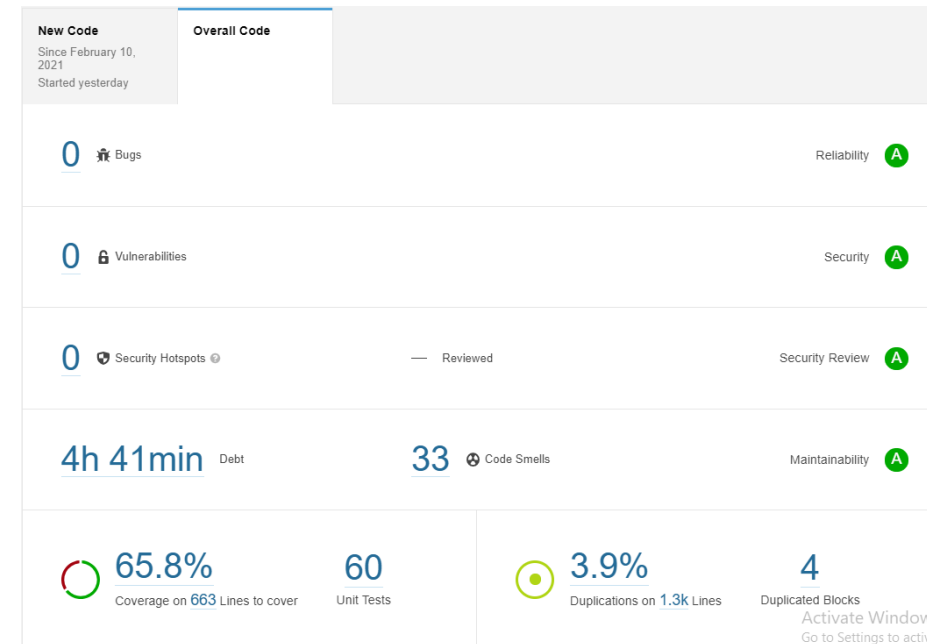
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# Testing

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.

ims		90.4 %	4,065	432	4,497
src/main/java		83.1 %	2,120	432	2,552
com.qa.ims		30.8 %	52	117	169
com.qa.ims.persistence.domain		83.3 %	525	105	630
com.qa.ims.controller		86.6 %	515	80	595
com.qa.ims.persistence.dao		92.8 %	849	66	915
com.qa.ims.utils		74.6 %	179	61	240
com.qa.ims.exceptions		0.0 %	0	3	3
src/test/java		100.0 %	1,945	0	1,945



# 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.
```

	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

```
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
```

	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

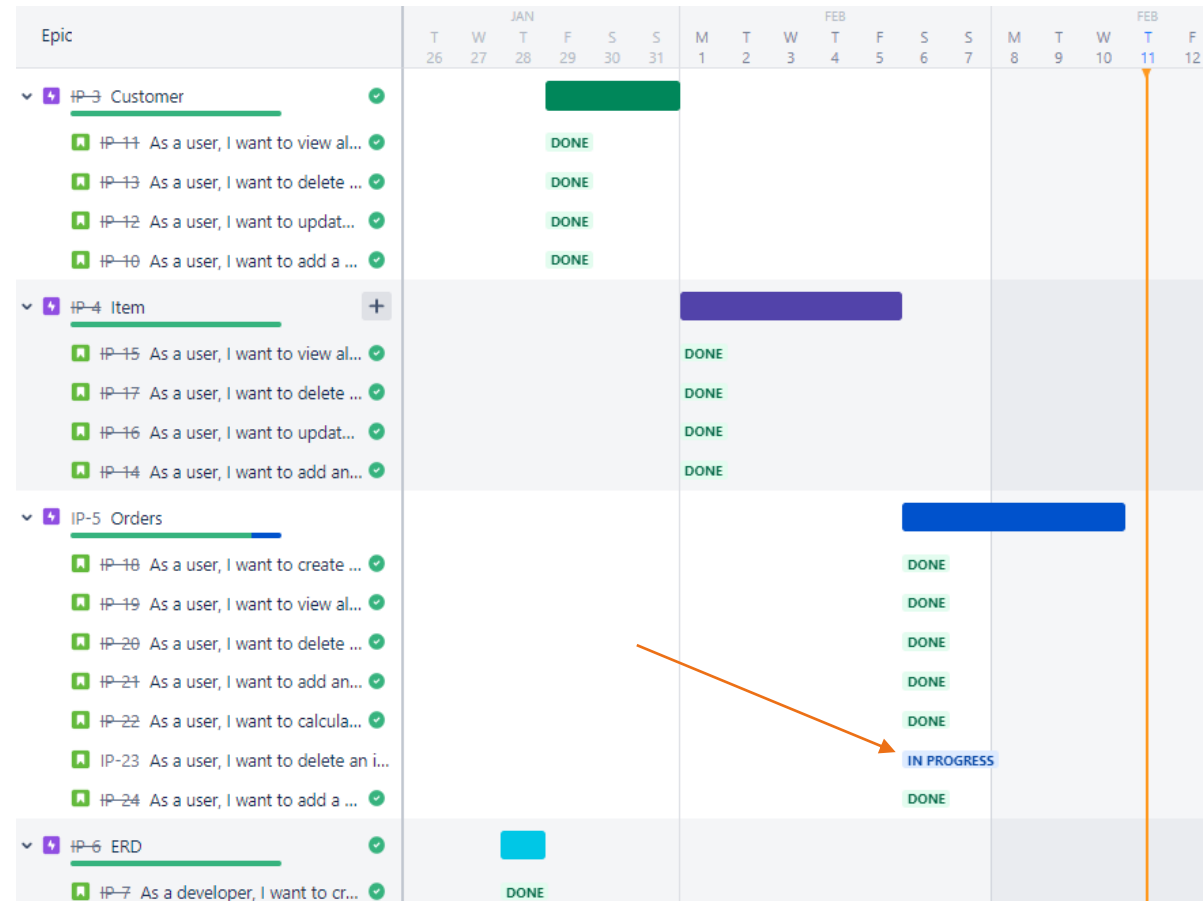
	orderlineID	ordersID	productID	orderlineQuantity
▶	3	2	2	2
	4	3	3	10
	5	3	4	4
	6	3	4	4
	7	4	3	10
	8	4	4	2
	9	5	2	2
*	NULL	NULL	NULL	NULL

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

- 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 ✓



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?

[illegible]

# Conclusion

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

# Questions?

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