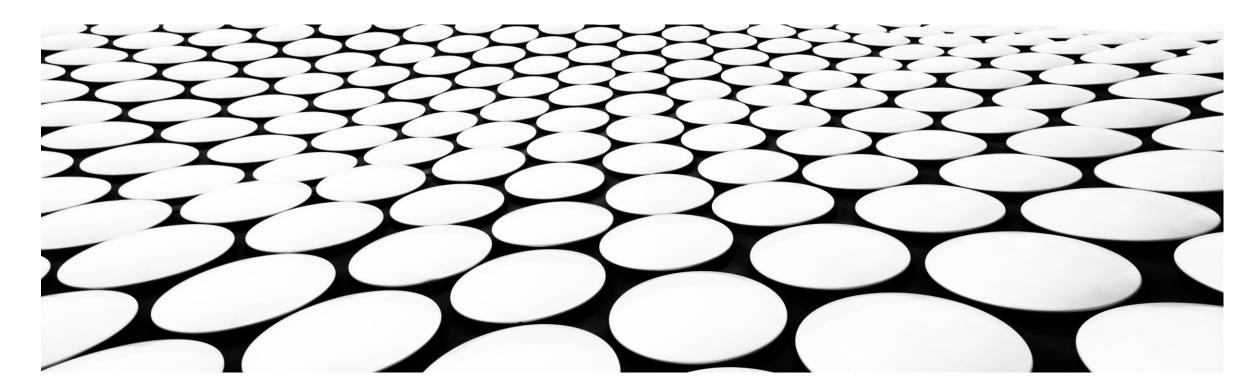
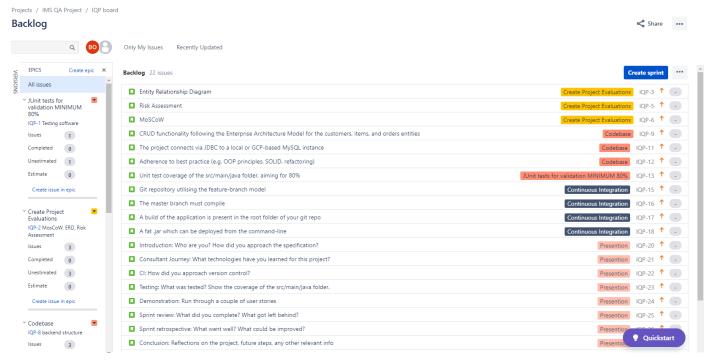
IMS PROJECT

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INTRODUCTION

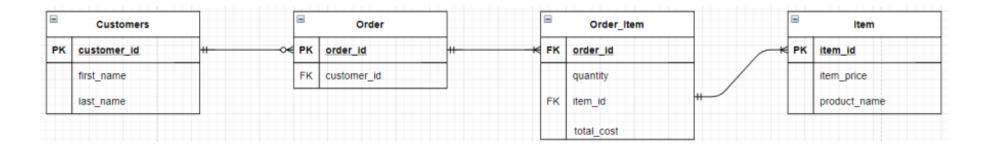


I started by condensing the brief into digestible points/tasks that I could complete in bursts using sprints.

This was done using Jira, and the tasks were managed into separate epics to further clarify what tasks were related to each other.

This helped to efficiently manage the backlog.

ENTITY RELATIONSHIP DIAGRAM



The customers to order relation ship is a one to zero or many.

The relationship between order to order_item is one to many.

The order_item table connects the order and item table (here items can be added to removed from orders based on order id's). The total cost for each item to order interaction is also calculated here.

CONSULTANT JOURNEY

- Git as a Version Control System
- GitHub Source Code Management System
- Jira Project management
- GCP MySQL
- Java backend programming language
- Maven build tool
- JUnit to test the classes

CI

I used the repository for the IMS starter project to set up my own repo on my GitHub account. I then cloned it down to my personal machine and began working on the code from there.

This helped keep track of the progress I was making as well as keeping my work safe due to some of the recent pc issues I had.

TESTING

Element	Coverage	Covered Instructions	Missed Instructions
✓	49.4 %	1,562	1,601
∨ 😕 src/main/java	41.5 %	1,058	1,489
> # com.qa.ims.controller	21.8 %	116	415
> 👭 com.qa.ims.persistence.dao	56.3 %	527	409
> 🚻 com.qa.ims.persistence.domain	43.5 %	251	326
> 👭 com.qa.ims	0.0 %	0	183
> # com.qa.ims.utils	51.2 %	164	156
> 🕮 src/test/java	81.8 %	504	112

Element	Coverage	Covered Instructions	Missed Instructions	Total Instru
✓	68.1 %	2,729	1,278	
> 😕 src/main/java	62.9 %	1,602	945	
> 😕 src/test/java	77.2 %	1,127	333	

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
✓	71.9 %	2,990	1,166	4,156
> 😕 src/main/java	65.1 %	1,673	896	2,569
> 🕮 src/test/java	83.0 %	1,317	270	1,587

DEMONSTRATION

SPRINT REVIEW - WHAT WENT WELL?

- Small daily sprints made it easier to keep track of everything that was required
- Majority of the tasks were completed
- The use of epics further helped to clarify which tasks need to be finished before others

SPRINT REVIEW - WHAT GOT LEFT BEHIND?

80% testing

alter table order_items add cost decimal(10,2);

Extra discount features

update order_items set cost = (select item_price from items where order_items.item_id = items.item_id);

Cost functionality for total

alter table order_items add total_cost decimal(10,2); update order_items set total_cost = quantity*cost;

SPRINT RETROSPECTIVE

- I'm fairly happy with the way that I approached the sprints in terms or the short manageable bursts
- Should have used a priority system
- However I would in hindsight make the tasks far more specific to make sure I kept good track of the smaller details

CONCLUSION

- Despite achieving 71.6% coverage for the whole project, I was unfortunately unable to reach 80% test for the src/main folder, in hindsight I would've allocated more time for testing.
- I would also make the order interface a lot simpler and keep it in one table for the end user
- Overall I think the project was successful in delivering the main functionality. However due to some delays in getting certain functions working, I was unable to make time to finish some of the extra features I wanted to include, Like features that apply discounts and so on.