Inventory Management System Project

Kishan Kunvardia

Introduction

- Studied Computer Science at University of Westminster
- Have basic knowledge of HTML, CSS, JavaScript, PHP, Python, C++, Java, C*, C.
- Experience as first line support
- Worked as Web Designer/Developer for 6 months
- Now a trainee in Software Development

Approach & Technologies

First started off with Jira for my Project Management Board. This is where I have my user stories with story points.

Then I decided how the different parts of the application tie together with my entity relationship diagrams

These tables are then created on a MySQL Server.

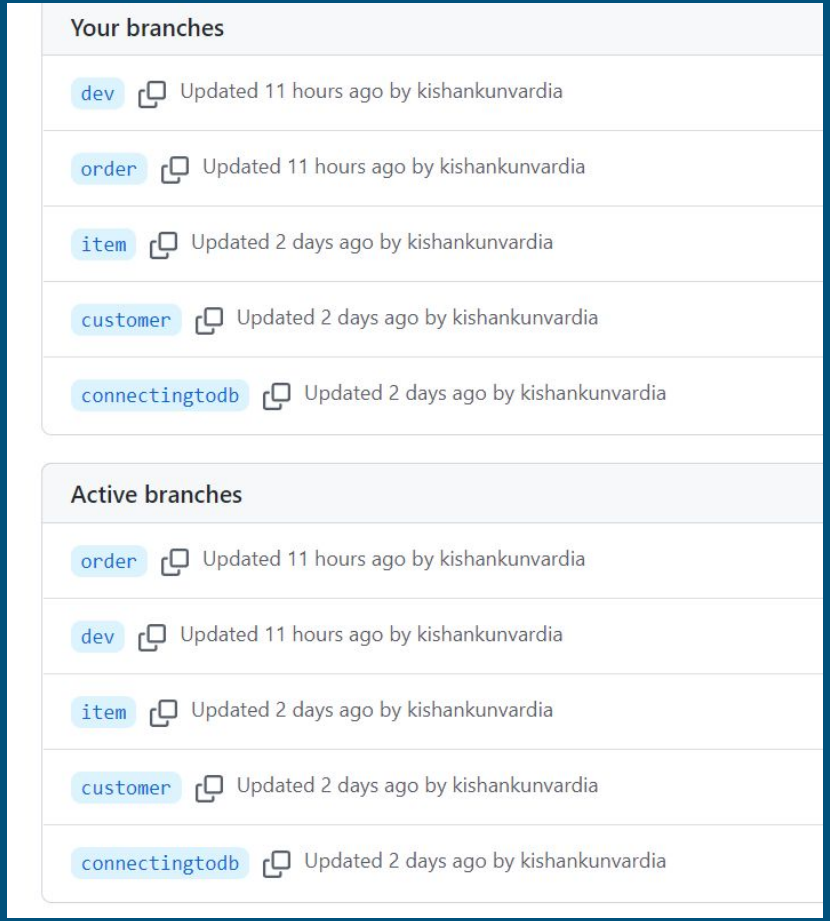
I can now start coding Java with my IDE, Eclipse.

To make sure I keep versions of my work, I use Git. This ties in with GitHub where my source code can be kept.

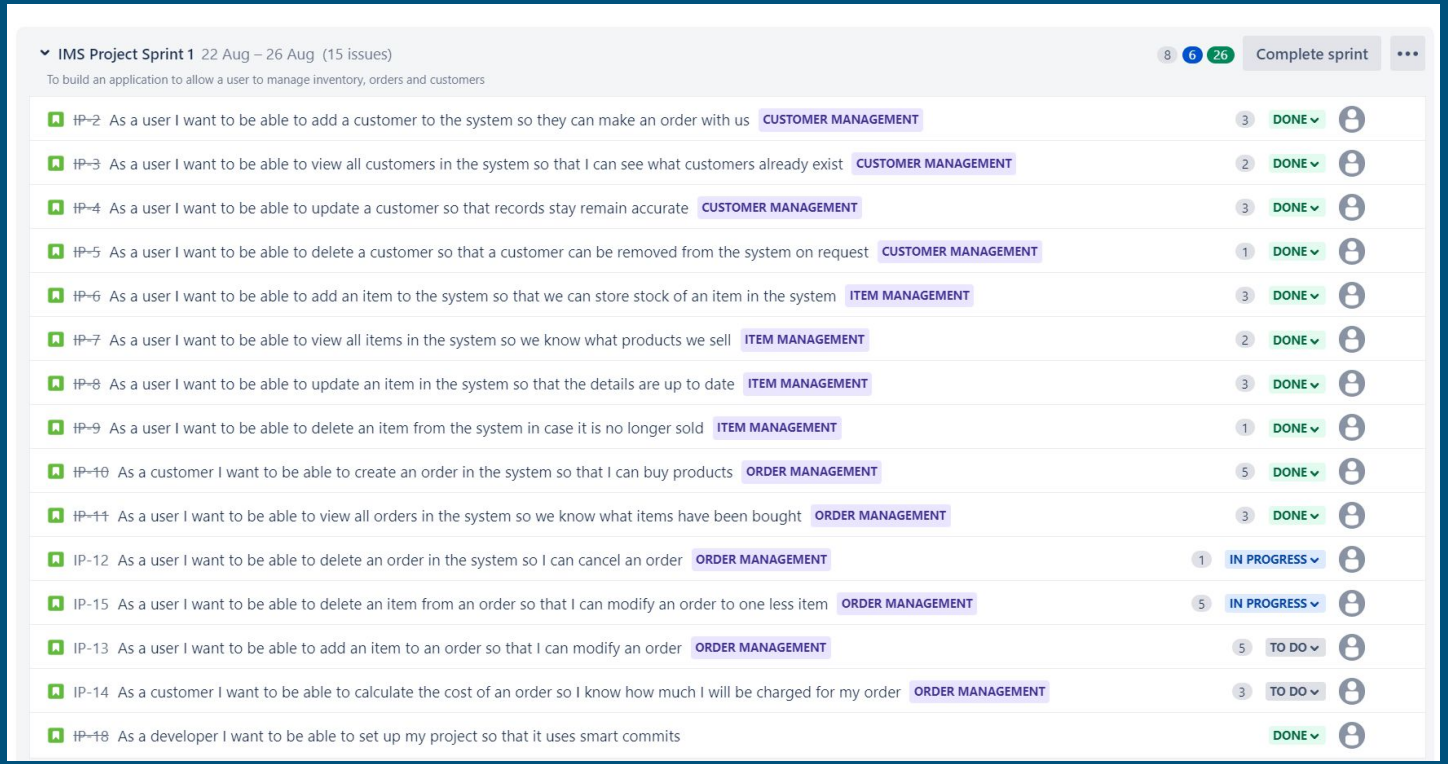
Once the application is complete, JUnit and Mockito are used for user testing.

Finally when the application is ready for deployment, Maven is used to build my JAR file.

Version Control



Project Management - Jira

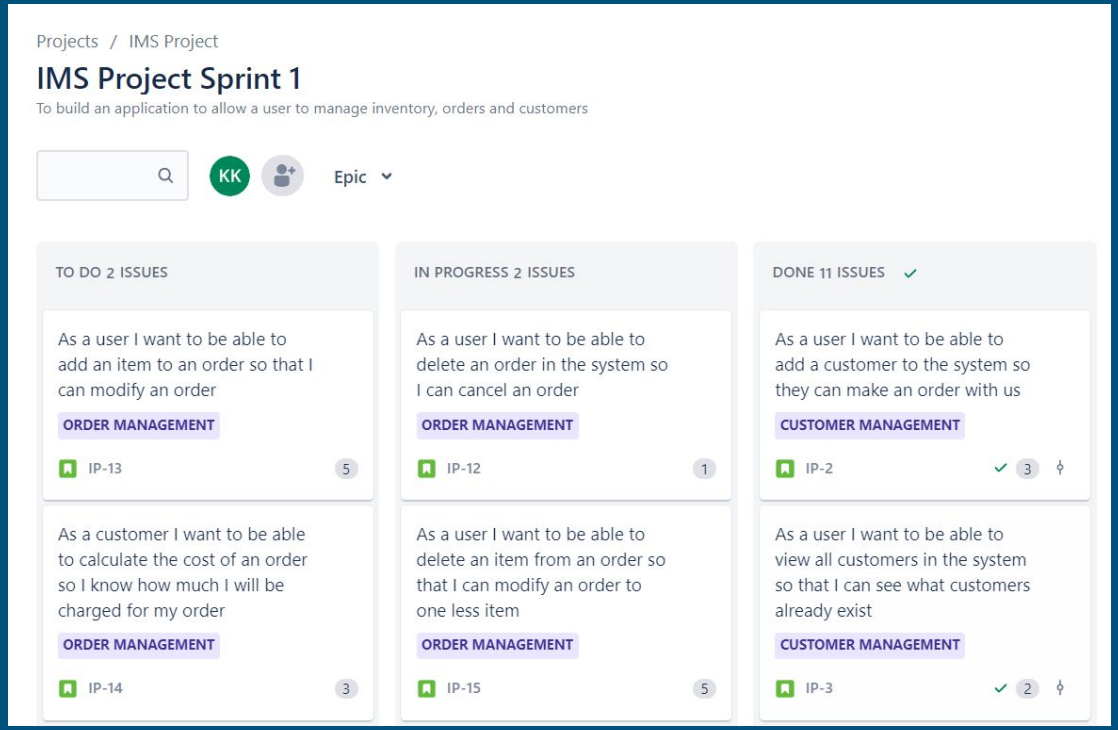


IMS Project Sprint 1 22 Aug – 26 Aug (15 issues) — 8 6 26 — Complete sprint

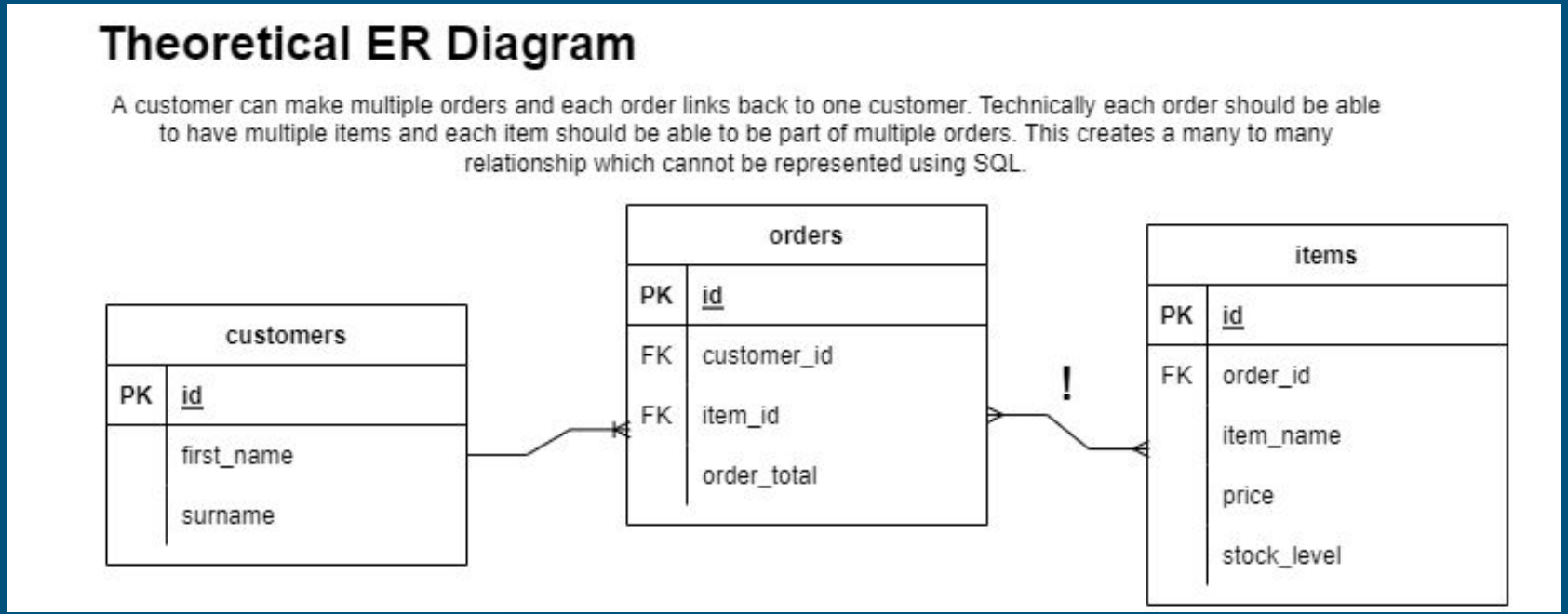
To build an application to allow a user to manage inventory, orders and customers

~~IP-2~~	As a user I want to be able to add a customer to the system so they can make an order with us	CUSTOMER MANAGEMENT	3 DONE
~~IP-3~~	As a user I want to be able to view all customers in the system so that I can see what customers already exist	CUSTOMER MANAGEMENT	2 DONE
~~IP-4~~	As a user I want to be able to update a customer so that records stay remain accurate	CUSTOMER MANAGEMENT	3 DONE
~~IP-5~~	As a user I want to be able to delete a customer so that a customer can be removed from the system on request	CUSTOMER MANAGEMENT	1 DONE
~~IP-6~~	As a user I want to be able to add an item to the system so that we can store stock of an item in the system	ITEM MANAGEMENT	3 DONE
~~IP-7~~	As a user I want to be able to view all items in the system so we know what products we sell	ITEM MANAGEMENT	2 DONE
~~IP-8~~	As a user I want to be able to update an item in the system so that the details are up to date	ITEM MANAGEMENT	3 DONE
~~IP-9~~	As a user I want to be able to delete an item from the system in case it is no longer sold	ITEM MANAGEMENT	1 DONE
~~IP-10~~	As a customer I want to be able to create an order in the system so that I can buy products	ORDER MANAGEMENT	5 DONE
~~IP-11~~	As a user I want to be able to view all orders in the system so we know what items have been bought	ORDER MANAGEMENT	3 DONE
IP-12	As a user I want to be able to delete an order in the system so I can cancel an order	ORDER MANAGEMENT	1 IN PROGRESS
IP-15	As a user I want to be able to delete an item from an order so that I can modify an order to one less item	ORDER MANAGEMENT	5 IN PROGRESS
IP-13	As a user I want to be able to add an item to an order so that I can modify an order	ORDER MANAGEMENT	5 TO DO
IP-14	As a customer I want to be able to calculate the cost of an order so I know how much I will be charged for my order	ORDER MANAGEMENT	3 TO DO
~~IP-18~~	As a developer I want to be able to set up my project so that it uses smart commits		DONE

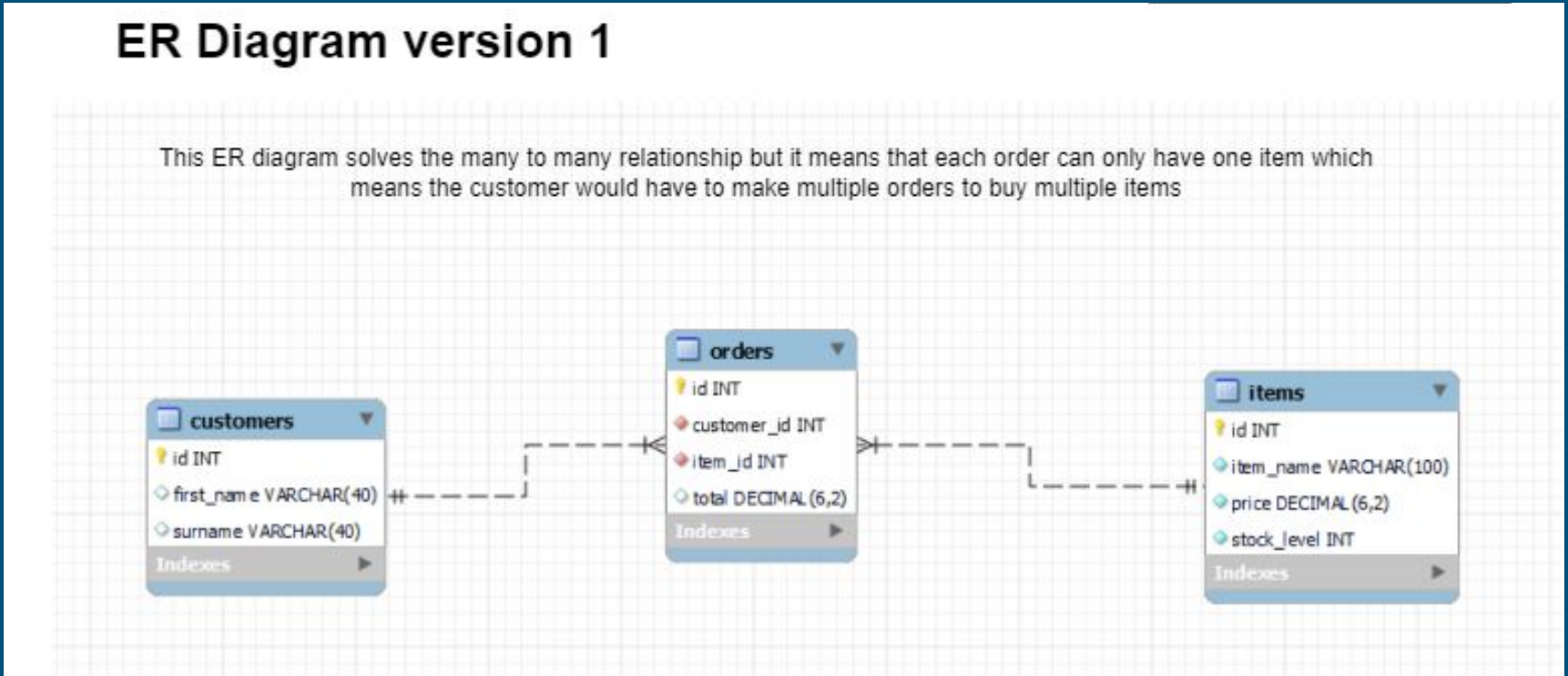
My Sprint


Projects / IMS Project
IMS Project Sprint 1
To build an application to allow a user to manage inventory, orders and customers
KK
Epic
TO DO 2 ISSUES
As a user I want to be able to add an item to an order so that I can modify an order
ORDER MANAGEMENT
IP-13
5
As a customer I want to be able to calculate the cost of an order so I know how much I will be charged for my order
ORDER MANAGEMENT
IP-14
3
IN PROGRESS 2 ISSUES
As a user I want to be able to delete an order in the system so I can cancel an order
ORDER MANAGEMENT
IP-12
1
As a user I want to be able to delete an item from an order so that I can modify an order to one less item
ORDER MANAGEMENT
IP-15
5
DONE 11 ISSUES
As a user I want to be able to add a customer to the system so they can make an order with us
CUSTOMER MANAGEMENT
IP-2
3
As a user I want to be able to view all customers in the system so that I can see what customers already exist
CUSTOMER MANAGEMENT
IP-3
2

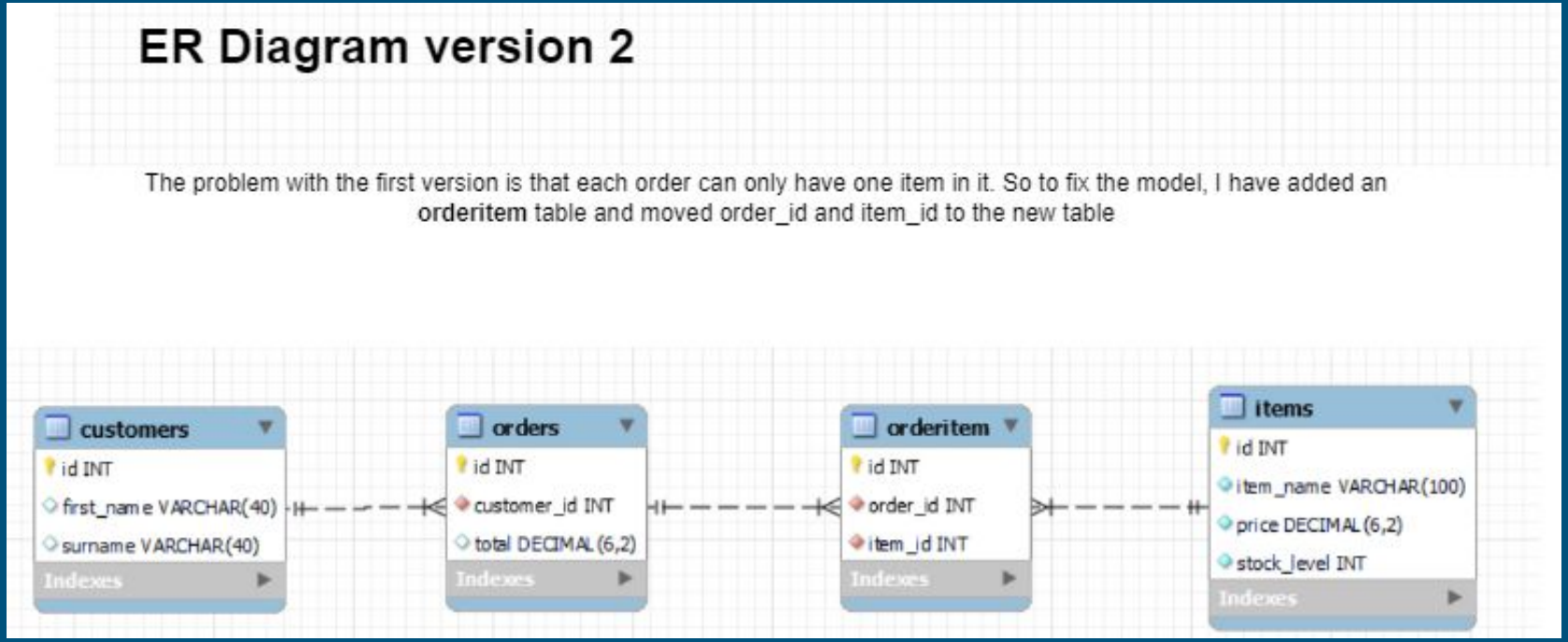
Designing table structure



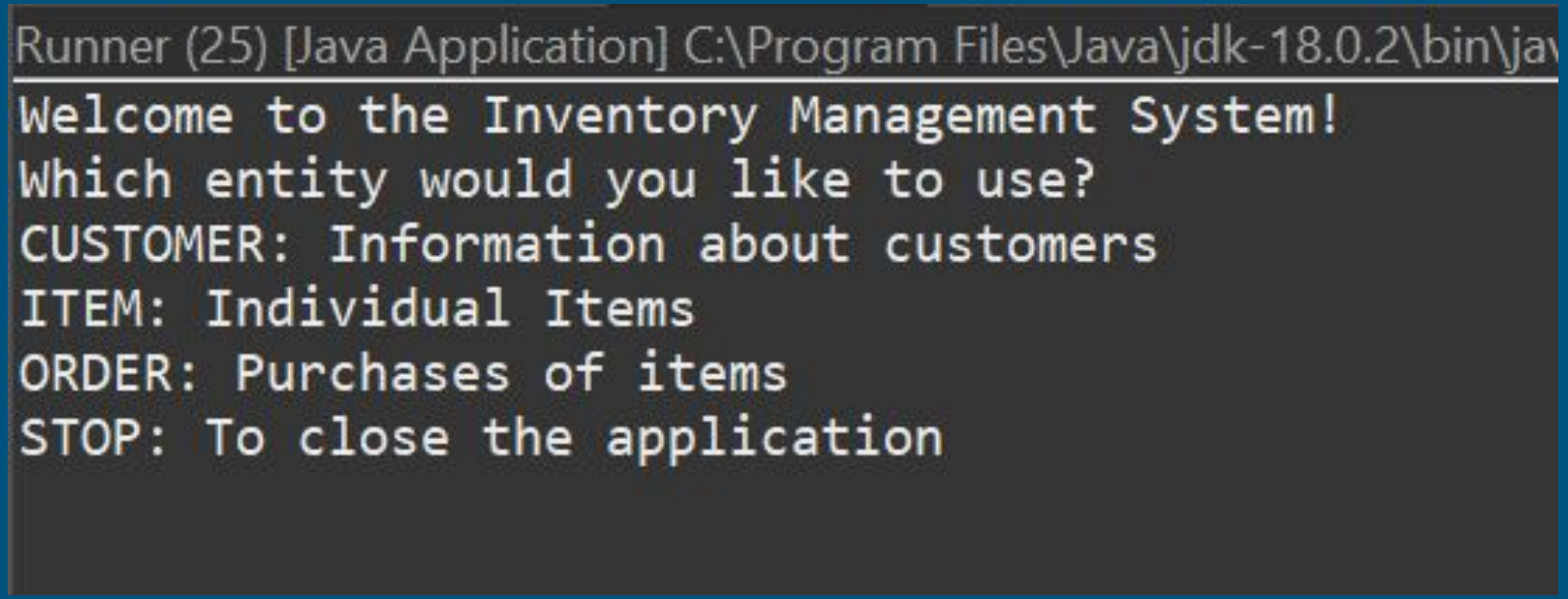
Creating ERD's



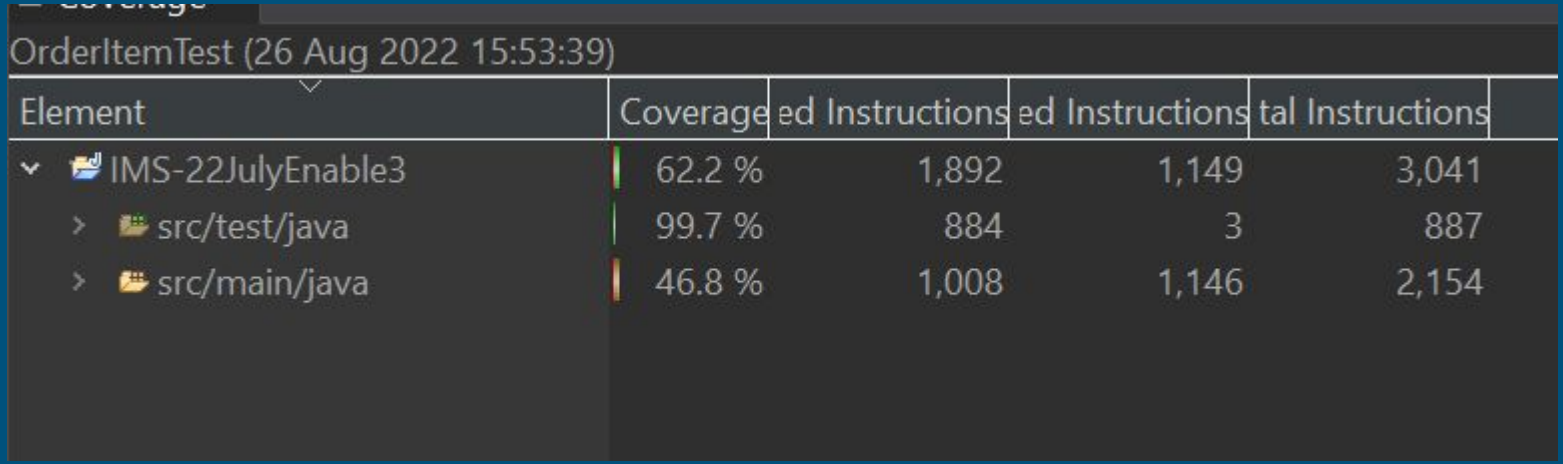
Creating ERD's



Demonstration of my application



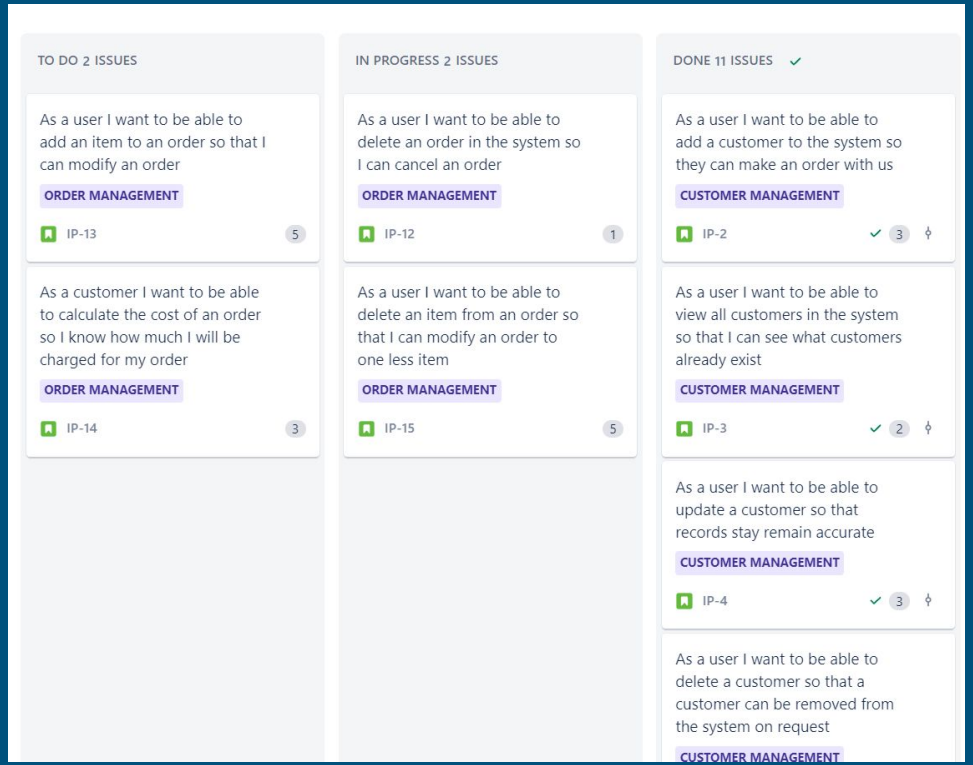
Testing - Coverage



Sprint Review

- Need to complete Update functionality e.g Add an item, delete and item.

- Calculate the cost of the order.



Sprint Retrospective

What went well?

- Planning of the project was well organised.
- There was good version control as each new feature was made on a separate branch

What could be improved?

- Time management
- Higher coverage for unit testing
- Code could be made more efficient.
- Add more complexity and attributes to my table structure.

Overall Conclusion

Project required the use of a variety of skills.

Future functionality

- Add a GUI
- Generate reports