

# Inventory Management System

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# Introduction

- My name is Abdul Salim, and I am currently a QA Tech consultant trainee.
- I am currently learning to use a wide range of software applications such as Java, MySQL and Git for the first time.
- I have just attempted my first full project, we'll see how I got on later on in the presentation.
- Although very challenging the project was very engaging. I constantly ran into hurdles that I wanted to overcome, leading me to want to learn more and more.
- From where I started to currently entering week 6, I feel I have seen considerable improvement with my coding and believe the project has helped me significantly grasp the concepts learnt throughout the 5 weeks.

# Approach

To begin with I looked through the specification provided to identify what was begin asked of me.

I then went and created user stories and tasks, based off the domain section of the specification, on my JIRA to plan, prioritize and break down the task into mini tasks.

With my user stories created, my first task was to create an ERD and UML to give structure and a plan as to what i expected my mysql and eclipse classes would look like.

# Consultant Journey

**Eclipse** - Used to develop mysource code

**Junit** - Used to test my source code to see if it does what's intended

**MySQL** - Used to create a visual database of my source code

**Git** - Used to implement changes to my source code

**Github** - Created a remote repository so i can access the project and keep track of changes i make from anywhere

**Maven** - Used to package the code so it can be run without the source code, also allowed me to bring in many different dependencies

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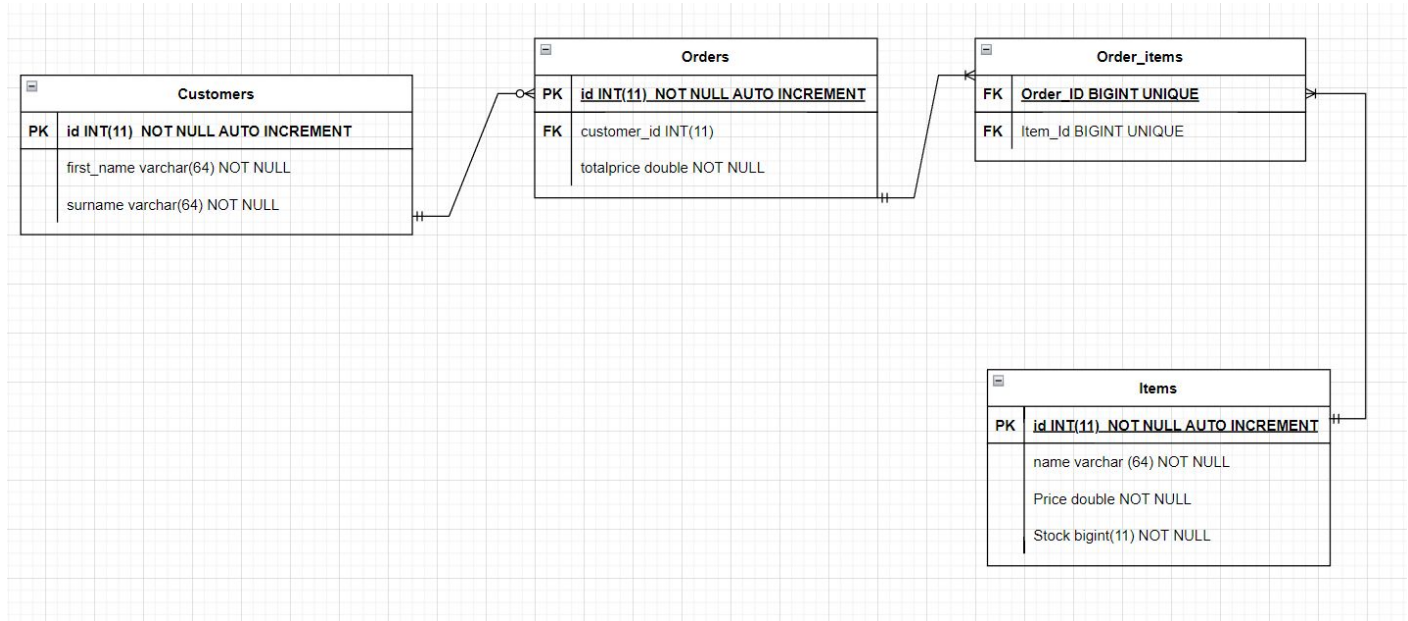
# Continuous Integration

## Version Control

Throughout the project, I would utilise branches on Github to track changes of my source code. Initially when i forked the repo, i created a development branch. From here for any commit i needed to make i created subbranches, which would have themes from the user stories created on jira. I would then merge it to the development branch if the work was of satisfactory level. Finally back to the master branch, once the application was ready to run.







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# ERD



# Testing

java (3 Apr 2022 18:28:58)

Element	Coverage	Covered Instru...	Missed Instruct...	Total Instructio...
▼ 📁 ims	 78.7 %	3,241	875	4,116
▼ 📁 src/main/java	 69.3 %	1,754	778	2,532
> 📁 com.qa.ims.persistence.dao	 73.2 %	674	247	921
> 📁 com.qa.ims.controller	 64.2 %	315	176	491
> 📁 com.qa.ims	 0.0 %	0	166	166
> 📁 com.qa.ims.persistence.domain	 85.0 %	595	105	700

- With my testing, I hit a coverage of 70% of the code within the src/main/java folder, just short of the intended 80%.
- Had a few errors with the order class testers, which unfortunately brought my overall coverage down.
- Had an issue within itemcontroller update method test.

# Sprint review

## ➤ What Did I Complete?

I was able to create a project that met all the user stories. I was able to use the command line to test all methods of my application and were all working.

I was able to create a MySQL database and input data through my command line in eclipse.

Carried out a good amount of testing where i had to identify and fix any errors.



# Sprint Review

## ➤ What Got Left Behind?

My orderDAO and Order controller classes were not passing the coverage tests, although they were working when using the CLI.

This meant that i was only able to achieve 70% for my coverage test instead of the industry standard of 80%.

# Sprint retrospective

## ➤ What went well?

Overall i am happy with the progress made on the project as i was able to create a working application, that met all of the user stories.

Creating the domain classes were relatively easy given the initial template was given to us, a simple adjustment to fit item and order meant it was a straightforward task.

MySQL database seemed to be working and i was able to put information into the table through the CLI.

# Sprint Retrospective

➤ What could be improved?

I think my time management has to improve in future. Both in terms of working too hard and procrastinating. Putting things off till the end instead of getting things done early has caused me to feel a little bit burned out towards the end of the project. A better plan to begin with may combat that.

Also, unfortunately, due to my limited knowledge of the subject, i was unable to understand a few errors thrown my way, so i could not fix them by the end.

# Conclusion

For a first project, only 5 weeks into my learning, I am content with how the project went. I believe i done a relatively good job, However, improvements can most definitely be made and I am eager to improve.

The project has pushed me to do so much independent research, pushed me to learn so many new skills and has pushed me to understand so many new softwares.

All in all, after hours and hours of stress, I can say the project was quite fun and has definitely made me more excited to continue learning.