

IMS Project

Emmy Kidd

Introduction

Who are you? How did you
approach the
specification?

About me: Maths graduate from 2019

How did I approach the specification:

First read the mark scheme, deliverables,
then the project outline

Made my project board/risk
assessments/MoSCoW outline first with
use/acceptance cases first so I knew what I
needed to do

Used the start provided and based all other
code from that

Tested said start to see what it currently
did so I knew what changes were mine

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Consultant Journey

What technologies have you
learned for this project?

- Git (VCS)
- Relational Databases
- MySQL
- Java
- Maven
- JUnit
- Agile
- Jira

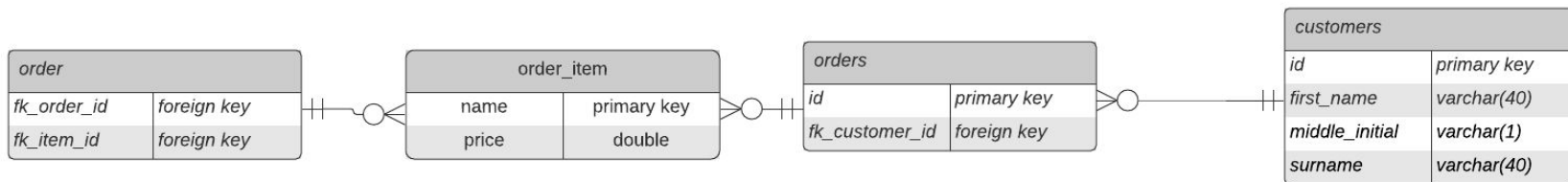
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CI

- Used Feature Branch Model with Git(Hub)
- Feature branches contained CRUD functionality in entirety of their respective classes
- This was done as my inexperience with coding would likely mean I would have to constantly go between methods so creating a branch for individual functionality would thus become redundant
- Commit often. Branches are useful for debugging

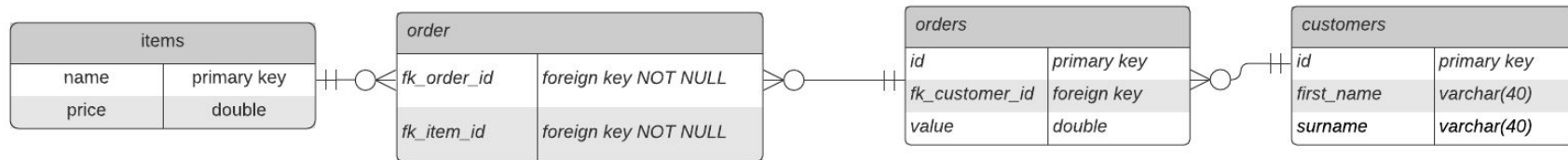
The ERD

The actual database layout was relatively simple so I was confident that it wouldn't change much over the course of the programming despite my lack of coding experience.



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Testing

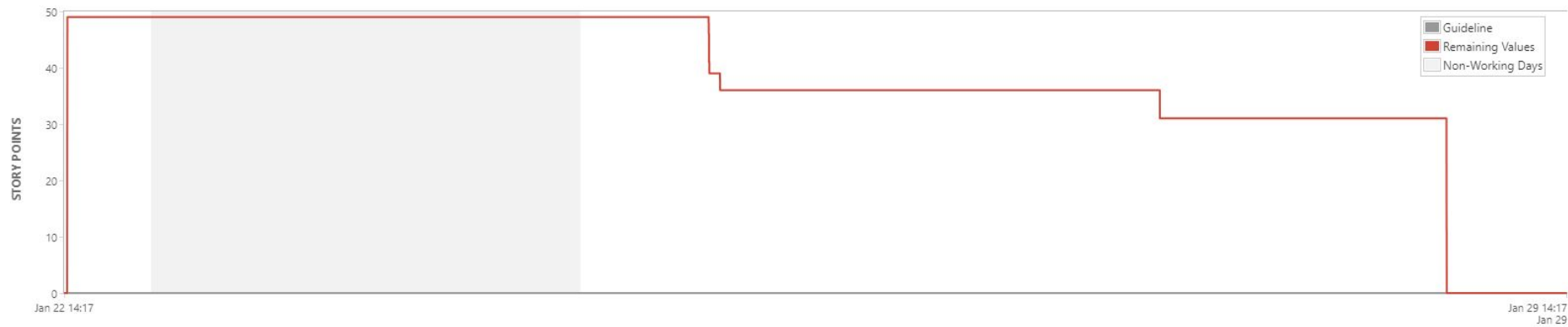
Using the `customerTest` and `customerDAO` as templates I created JUnit tests for `Items` and `Orders`.

`Items` was relatively straight forward but `orders` provided to be much more difficult. Was unable to rest add and delete items.

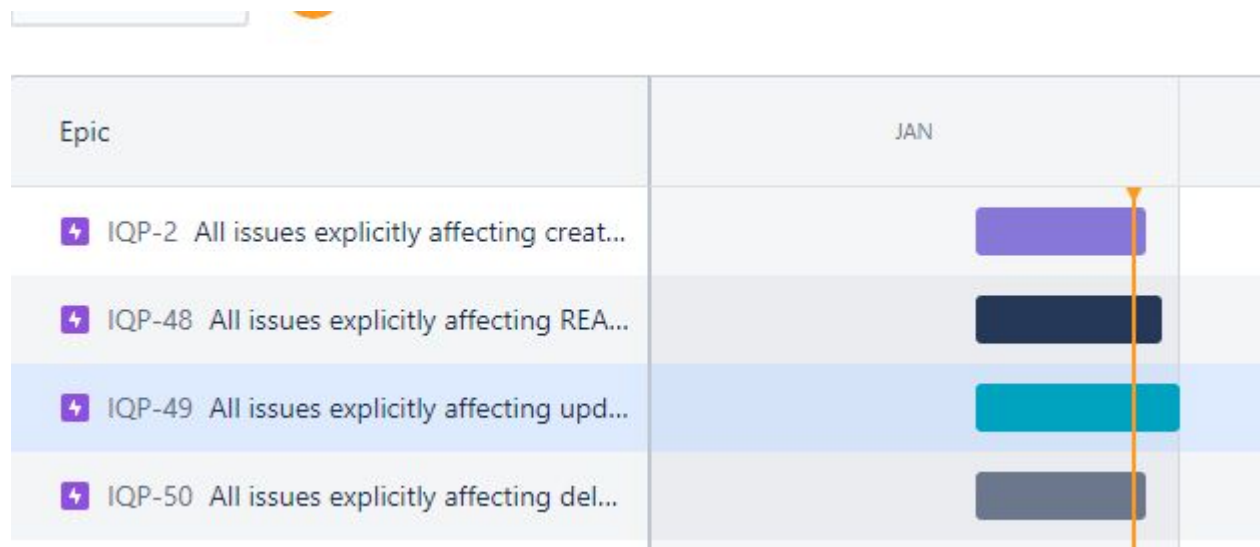
Would of liked to JUnit test controllers

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
▼ 20DecSDET2-IMS-Starter-main	 53.7 %	1,619	1,395	3,014
> src/main/java	 45.6 %	1,170	1,395	2,565
> src/test/java	 100.0 %	449	0	449

Project board



Project board



Demonstration

1. As a user I want to be able to delete an item and only that item without knowing DML so that I can remove a specific product from the system
2. As an user I want to be able to enter new customer info to the database without having to know DML to create a new customer in the system
3. As a user I want to be able the calculate the total cost of an order so I can tell the customer them the price

Sprint Review

- MVP CRUD functionality for customer, item, and order
- Ensured all requirements listed in the spec worked as intended in console.
- Quality of Life improvements (e.g. ability to look up by a non id field, reading a single order, ability to look at updated order immediately, warning that customer/item doesn't exist in order creation/updating instead of an SQL error)

Sprint Retrospective

- Creativity when making the documentations
 - Ability to generate new ideas that align with current goals
 - Able to ask for help when needed
 - Ability to show ideas in a concise manner
 - Good learning experience
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- Inflexibility when it came to applying knowledge
 - Very often had to have things spelt out
 - Not the best self care

Conclusion

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Need more time to understand how classes relate to each other as a whole in Java

- Seeing more large scale program examples

Experience in debugging

Would like to refine the IMS further

Better allocation in workload

Questions