IMS FUNDAMENTAL PROJECT

By Solomon Boundy

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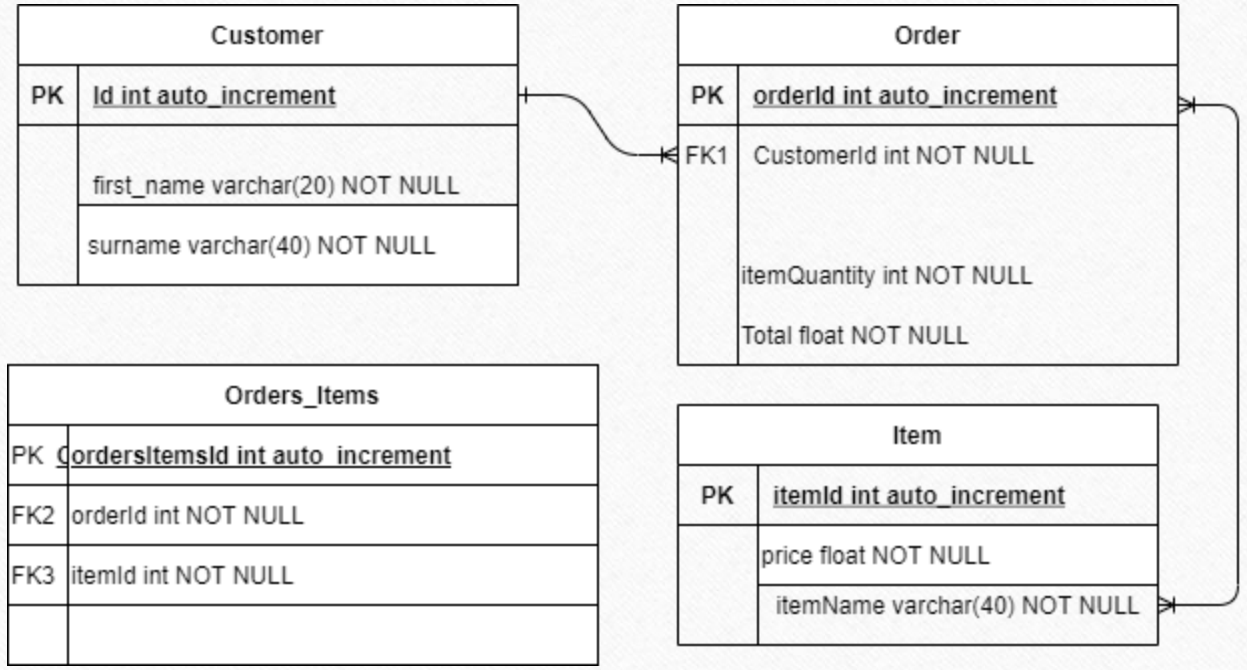
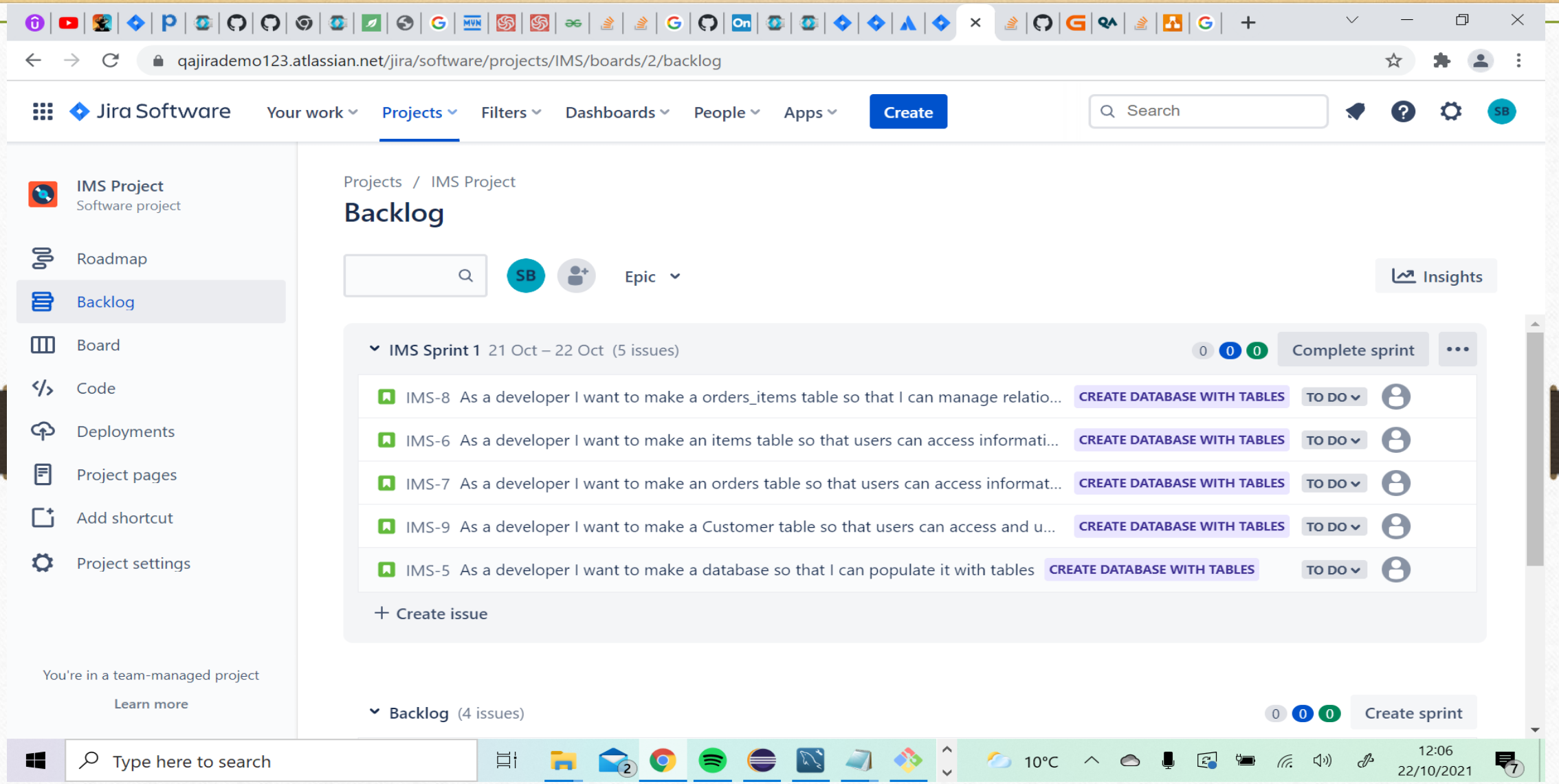
- Started messing around with code in python about a year ago
- I am now employed by QA, training to be an IT consultant

How did I approach the Specification?

- I approached the specification, first by preparing an ERD in order to understand which tables were needed and the relationships between each table
- I then prepared a Jira board in order to break down individual tasks to make them more manageable over the course of the week.


Customer
PK
Id int auto_increment
first_name varchar(20) NOT NULL
surname varchar(40) NOT NULL
Order
PK
orderId int auto_increment
FK1
CustomerId int NOT NULL
itemQuantity int NOT NULL
Total float NOT NULL
Orders_Items
PK
ordersItemsId int auto_increment
FK2
orderId int NOT NULL
FK3
itemId int NOT NULL
Item
PK
itemId int auto_increment
price float NOT NULL
itemName varchar(40) NOT NULL


qajirademo123.atlassian.net/jira/software/projects/IMS/boards/2/backlog
Jira Software
Your work
Projects
Filters
Dashboards
People
Apps
Create
Search
SB
IMS Project
Software project
Roadmap
Backlog
Board
Code
Deployments
Project pages
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / IMS Project
Backlog
SB
Epic
Insights
IMS Sprint 1 21 Oct – 22 Oct (5 issues)
0 0 0
Complete sprint
IMS-8 As a developer I want to make a orders_items table so that I can manage relatio... CREATE DATABASE WITH TABLES TO DO
IMS-6 As a developer I want to make an items table so that users can access informati... CREATE DATABASE WITH TABLES TO DO
IMS-7 As a developer I want to make an orders table so that users can access informat... CREATE DATABASE WITH TABLES TO DO
IMS-9 As a developer I want to make a Customer table so that users can access and u... CREATE DATABASE WITH TABLES TO DO
IMS-5 As a developer I want to make a database so that I can populate it with tables CREATE DATABASE WITH TABLES TO DO
Create issue
Backlog (4 issues)
0 0 0
Create sprint
Type here to search
10°C
12:06
22/10/2021

What technologies have you learned for the project?

- For this specific project I had to use a range of different technologies,

Such as:

- Jira – to create epics and user stories in order to make the project more manageable with a clear path

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❖For this specific project I had to use a range of different technologies,

Such as:

- Jira – a web-based project management system, I used this to create epics and user stories in order to make the project more manageable with a clear path
- Git – for version control, and to keep things up to date on an accessible repository

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- MySQL Workbench – Used to create and manipulate data in a database
- Eclipse – This was the IDE I used to code the java application
- Java – I used Java to write the majority of the code for the program

What technologies have you learned for the project?

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Such as:

- MySQL Workbench – Used to create and manipulate data in a database
- Eclipse – This was the IDE I used to code the java application
- Java – I used Java to write the majority of the code for the program
- JUnit – Used to test the individual units of the different classes
- Mockito – Used to make mock ups and test the relationships between the code and database.

How did you approach version control?

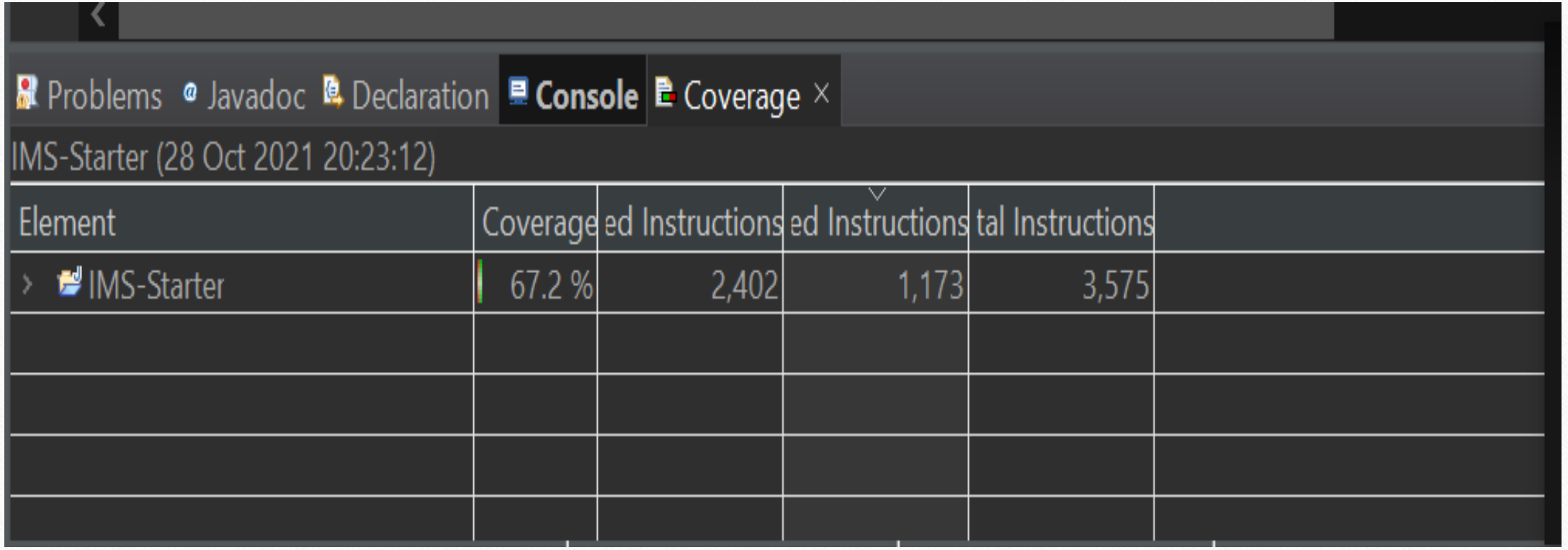
- I used git and created a repo in github to store my files.
- I used the feature branch model and created features from the dev branch in order to keep things consistent.

```
Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos
$ git clone https://github.com/solomonboundy1/IMS-Starter.git
Cloning into 'IMS-Starter'...
remote: Enumerating objects: 267, done.
remote: Total 267 (delta 0), reused 0 (delta 0), pack-reused 267
Receiving objects: 100% (267/267), 41.16 KiB | 507.00 KiB/s, done.
Resolving deltas: 100% (56/56), done.

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos
$ cd IMS-Starter/

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (master)
$ git branch dev

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (master)
$ git checkout dev
Switched to branch 'dev'

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$ git add .

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$ git push
```

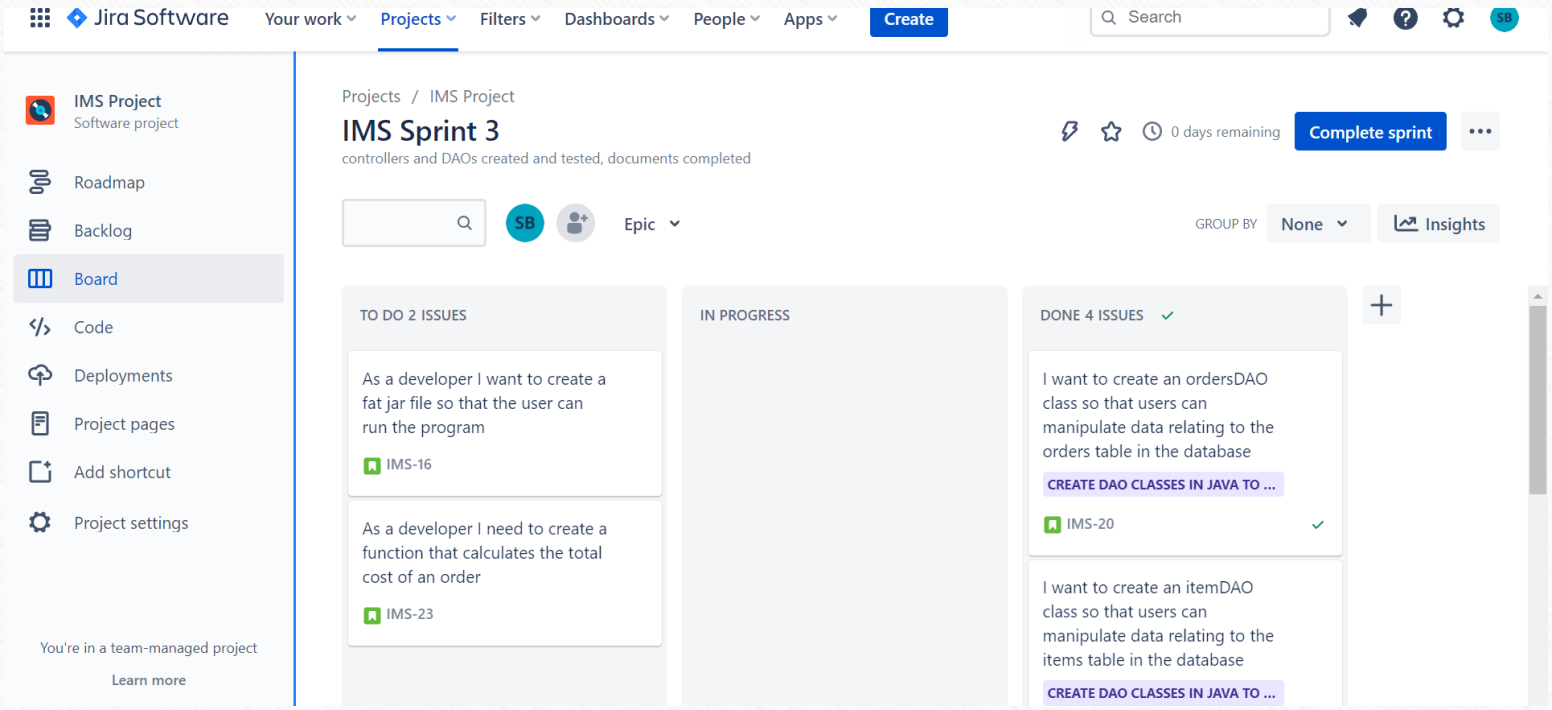
```
Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$ git add .

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$ git push
fatal: The current branch dev has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin dev


Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$ git push --set-upstream origin dev
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:      https://github.com/solomonboundy1/IMS-Starter/pull/new/dev
remote:
To https://github.com/solomonboundy1/IMS-Starter.git
 * [new branch]      dev -> dev
Branch 'dev' set up to track remote branch 'dev' from 'origin'.

Sol@DESKTOP-EACDADS MINGW64 ~/Desktop/githubrepos/IMS-Starter (dev)
$
```

What was tested?

- I tested the individual methods of each class that I coded, using JUnit
- I also tested each class controller using Mockito


Problems
Javadoc
Declaration
Console
Coverage
IMS-Starter (28 Oct 2021 20:23:12)
Element
Coverage
ed Instructions
ed Instructions
tal Instructions
IMS-Starter
67.2 %
2,402
1,173
3,575

Demonstration



Sprint Review

Completed so far

- MySQL tables and database created
- Customer, Items, and Orders classes created
- All DAOs have been created
- All Controllers have been created

Incomplete

- Still some testing left to do on the OrdersDAO and Order Controller
- A method to calculate the total of a customer order

Sprint Retrospective

In retrospect, I did well in creating the tables in MySQL and connecting the classes to the corresponding table.

I could have figured out an easier way to add items to an order, as the way that I did it made it very difficult to manipulate the data from other classes.

Time management is also something that I could improve upon for the next time, as I spent a lot of my time trying to fix the methods in the orderDAO which consequently led to less time for testing in the end.

Conclusion

Although I found this challenge particularly challenging, it really got me familiar with the Java syntax and I learned a lot through getting my hands dirty with the code. It was also particularly challenging given I am brand new to the world of Java and using so many technologies together did not come as second nature. However, I enjoyed this project a lot even if I did not finish it in time!!

Many thanks

Any Questions?