
INVENTORY MANAGEMENT SYSTEM
By Stanislav Angelov

Introduction

WHO AM I?.

HOBBIES AND INTERESTS

PROJECT APPROACH
(LEARNING OPPORTUNITY)

Consultant Journey

- What technologies have you learned for this project?
- Technologies learnt/used:
- Version Control System – Git
- Version Code Management – GitHub
- Scrum Board – Jira
- Data Management System – MySQL Server 5.7+ (Locally)
- Back-End Programming Language: Java
- Build Tool: Maven
- Unit Testing: Junit
- Integration Testing: Mockito

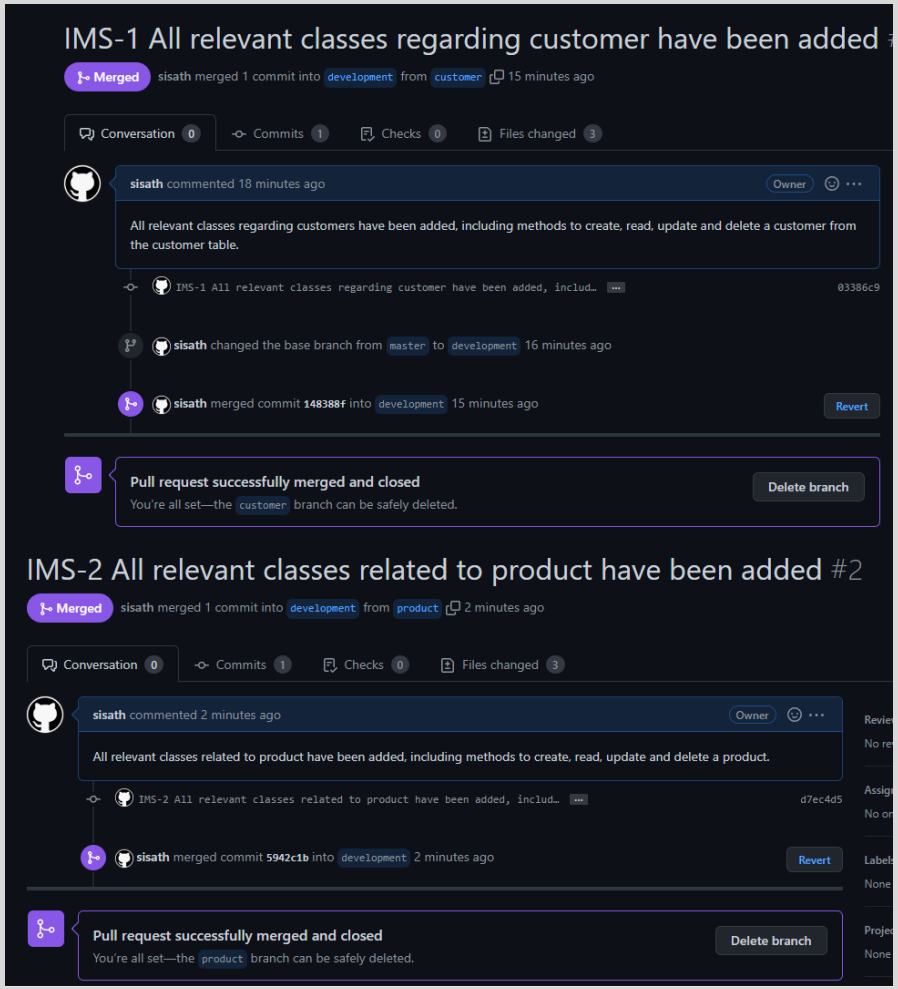
Continuous Integration (CI)

- How did you approach version control?

- -Git and GitHub & Jira for User Stories and Tasks

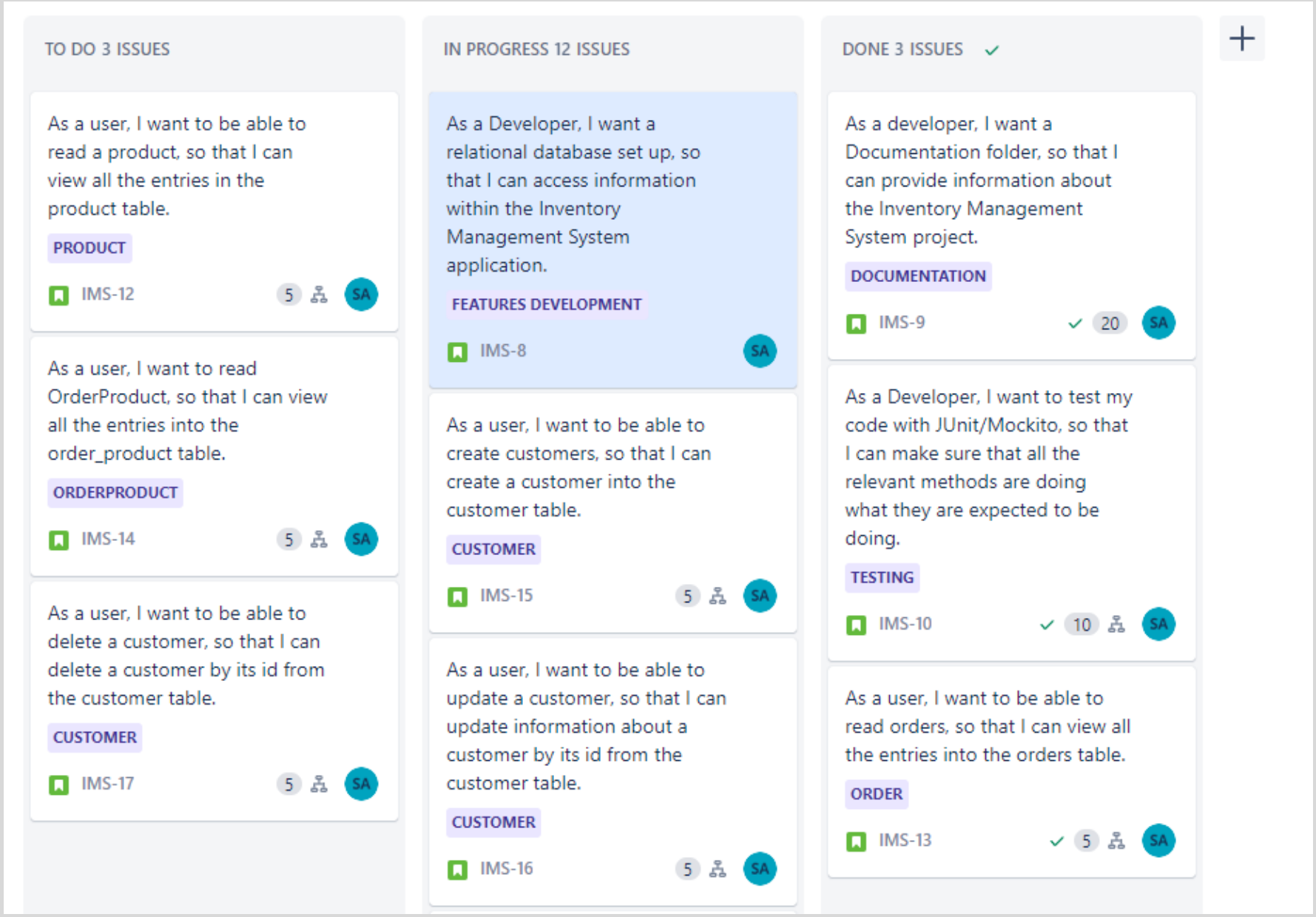
- - Jira has been used to keep a track on the current tasks and progress of the project, what is to be done, what is in progress and what has already been done. Git has been used as a version control with smart commits which have been previously linked to Jira. Feature-Branch model has also been followed, where a development branch has been created off main/master and then feature branches have been created off development.

GitHub


IMS-1 All relevant classes regarding customer have been added
Merged
sisath merged 1 commit into development from customer 15 minutes ago
Conversation 0
Commits 1
Checks 0
Files changed 3
sisath commented 18 minutes ago
Owner
All relevant classes regarding customers have been added, including methods to create, read, update and delete a customer from the customer table.
IMS-1 All relevant classes regarding customer have been added, includ…
03386c9
sisath changed the base branch from master to development 16 minutes ago
sisath merged commit 148388f into development 15 minutes ago
Revert
Pull request successfully merged and closed
You're all set—the customer branch can be safely deleted.
Delete branch
IMS-2 All relevant classes related to product have been added #2
Merged
sisath merged 1 commit into development from product 2 minutes ago
Conversation 0
Commits 1
Checks 0
Files changed 3
sisath commented 2 minutes ago
Owner
All relevant classes related to product have been added, including methods to create, read, update and delete a product.
IMS-2 All relevant classes related to product have been added, includ…
d7ec4d5
sisath merged commit 5942c1b into development 2 minutes ago
Revert
Pull request successfully merged and closed
You're all set—the product branch can be safely deleted.
Delete branch


sisath Merge pull request #2 from sisath/product ...
5942c1b 4 minutes ago
5 commits
src
IMS-2 All relevant classes related to product have been added, includ...
10 minutes ago

Jira


TO DO 3 ISSUES
As a user, I want to be able to read a product, so that I can view all the entries in the product table.
PRODUCT
IMS-12
5
SA
As a user, I want to read OrderProduct, so that I can view all the entries into the order_product table.
ORDERPRODUCT
IMS-14
5
SA
As a user, I want to be able to delete a customer, so that I can delete a customer by its id from the customer table.
CUSTOMER
IMS-17
5
SA
IN PROGRESS 12 ISSUES
As a Developer, I want a relational database set up, so that I can access information within the Inventory Management System application.
FEATURES DEVELOPMENT
IMS-8
SA
As a user, I want to be able to create customers, so that I can create a customer into the customer table.
CUSTOMER
IMS-15
5
SA
As a user, I want to be able to update a customer, so that I can update information about a customer by its id from the customer table.
CUSTOMER
IMS-16
5
SA
DONE 3 ISSUES
As a developer, I want a Documentation folder, so that I can provide information about the Inventory Management System project.
DOCUMENTATION
IMS-9
20
SA
As a Developer, I want to test my code with JUnit/Mockito, so that I can make sure that all the relevant methods are doing what they are expected to be doing.
TESTING
IMS-10
10
SA
As a user, I want to be able to read orders, so that I can view all the entries into the orders table.
ORDER
IMS-13
5
SA

Testing – what was tested?

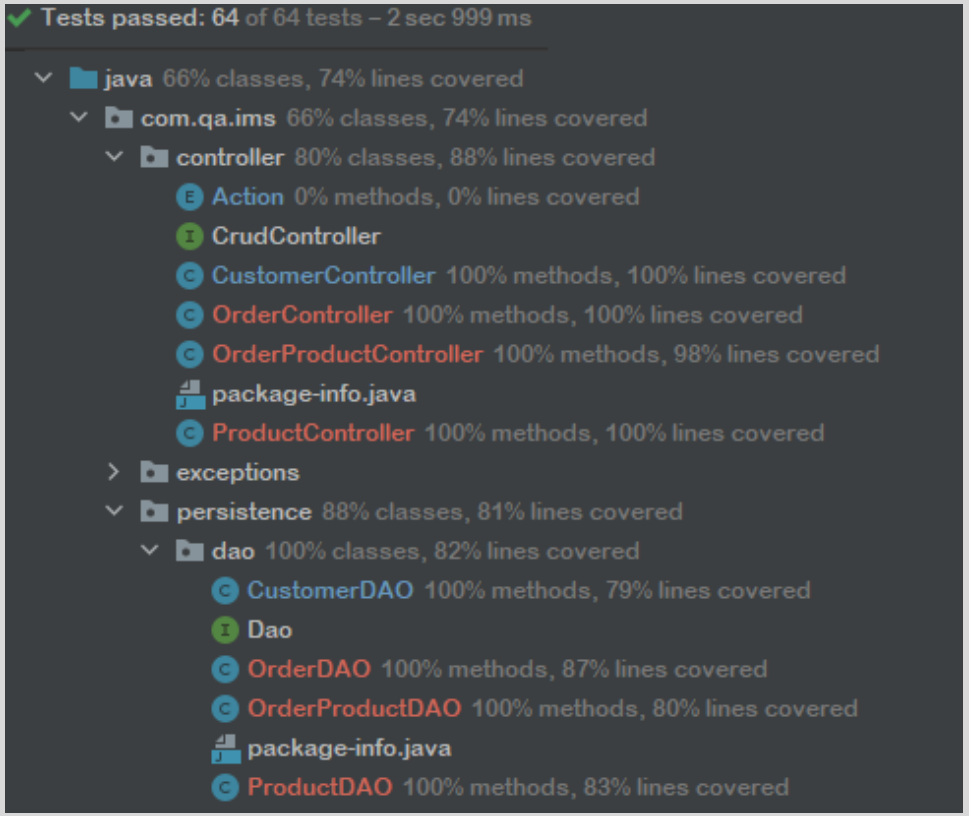
Testing has been done for:
Customer – Model, DAO, Controller

Product – Model, DAO, Controller

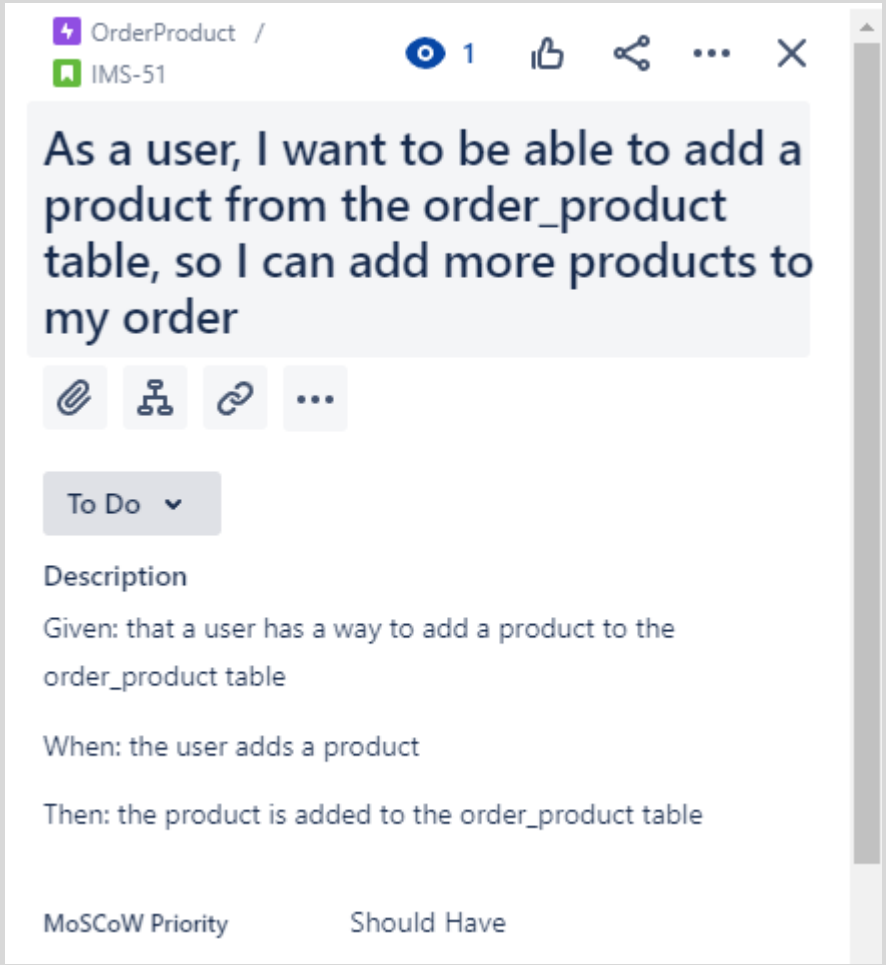
OrderProduct – Model, DAO, Controller

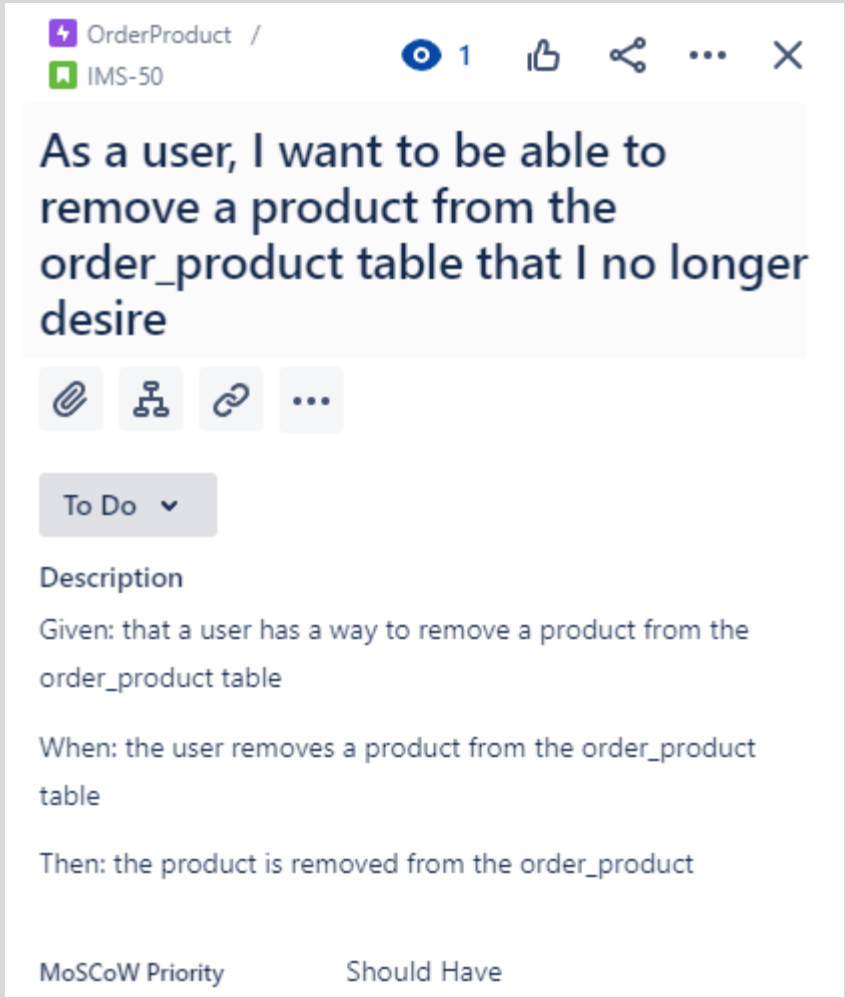
Orders – Model, DAO, Controller

Testing - Coverage



Demonstration





Spring Review

What was completed:

- Create Read, Update and Delete functionality for customer, product, orders and order_prodict with Working connectivity to MySQL Database through JDBC.
- Unit/Integration testing with coverage of a 66% for the src/main/java folder.
- Risk Assessment, MoSCoW, ERD, UML and other documentation done.
- Jira Scrum Board including user stories and story points.
- -As well as implemented a login system, and addProduct/removeProduct methods

- Things left behind:
- - Less than 80% Coverage

Spring Retrospective

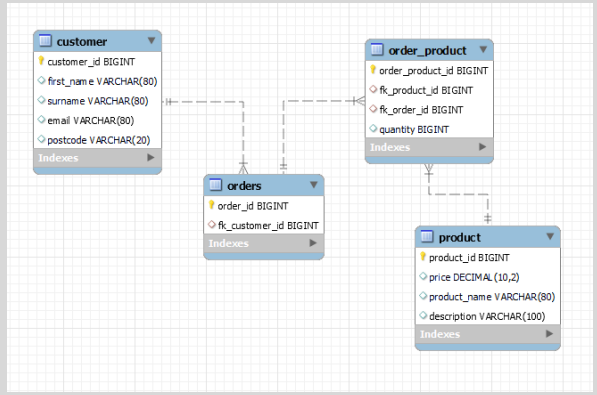
- What went well?
- - Full CRUD Functionality has been achieved
- - Utilisation of tools and processes throughout the project

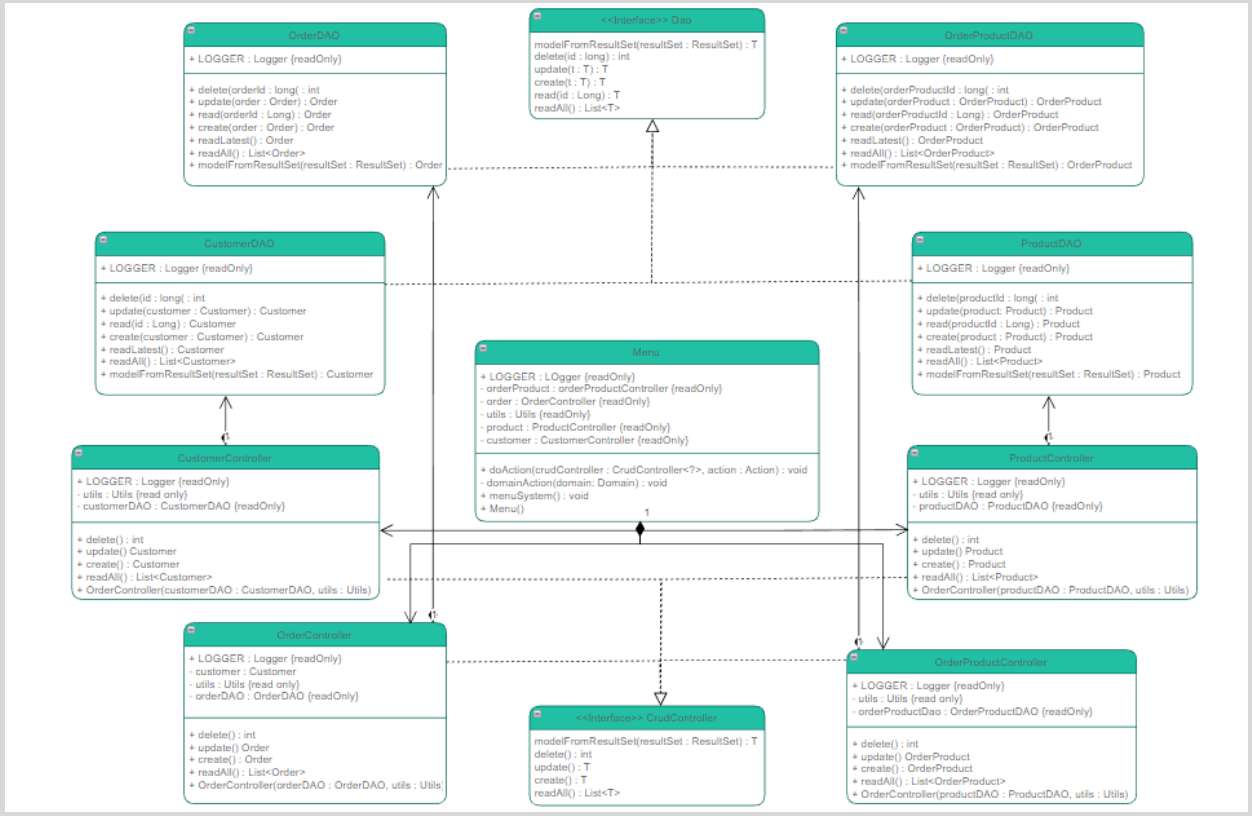
- What could have been done better?
- -More planning
- -More time to fully understand some of the tools (Mockito)
- -Pay more attention to small details

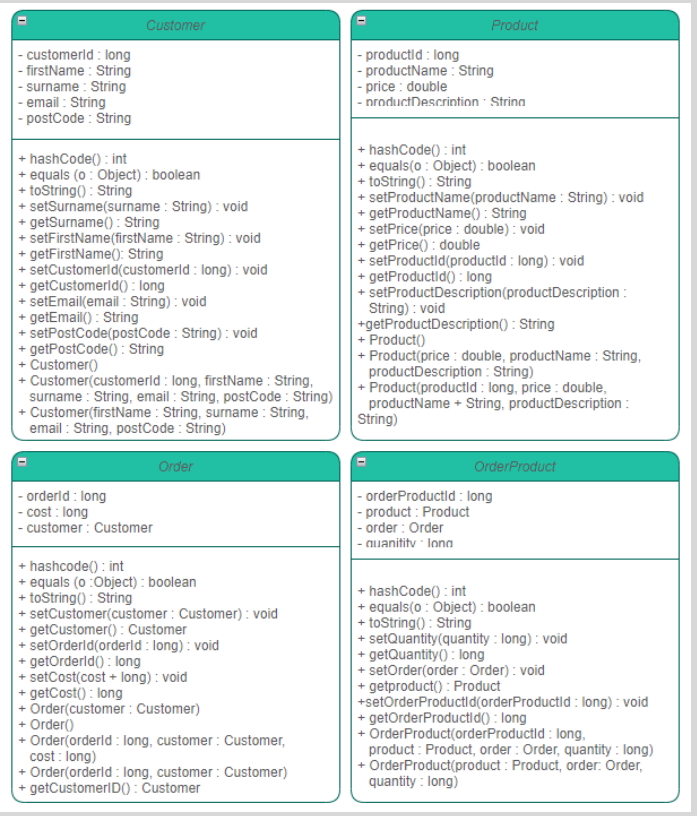
Conclusion

- In conclusion, I can say that in general the project has been a success, I have learnt a lot for the past 4/5 weeks, such as how difficult it is sometimes being a programmer, but yet how enjoying it is when you have been stuck on a bug for a while and finally fixed it.

Relevant Diagrams/Screenshots







Thank you for your attention and for listening ! Any questions ?