IMS PROJECT

Malik Ali

Introduction

- BSc in Computer Science from Keele
- Review the specification
- Scope, Constraints, Minimum Viable Product

Consultant Journey

- Java
- Eclipse
- Maven
- Junit and Mockito
- MySQL
- Git
- GitHub

CI

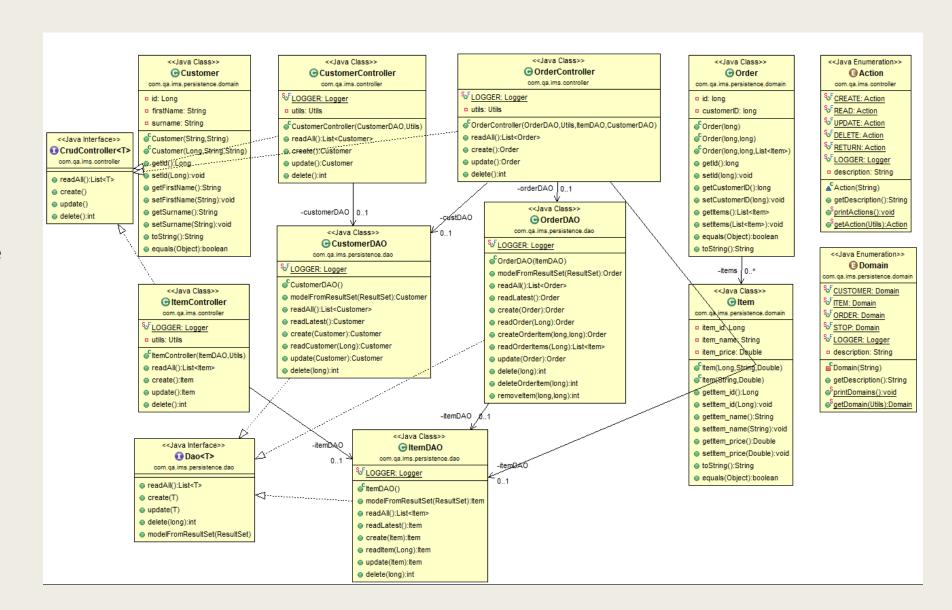
Version control using git and GitHub utilising the dev<feature> branch model



UML

Multiplicity:

- 0..* Zero or More
- 1.. * One or More
- 0..1 Zero or One



Testing

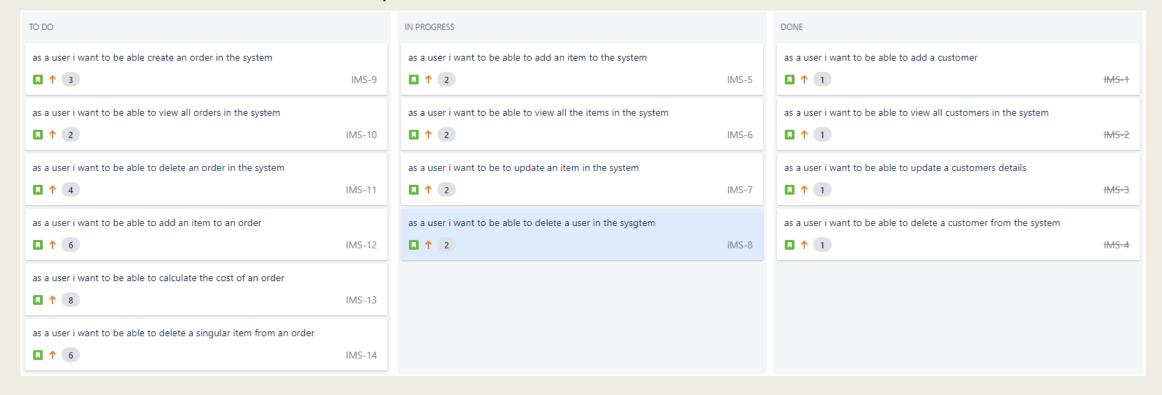
- Junit tests for the Data Access Objects
- Mockito for Integration testing of the controllers
- 71% Coverage industry standard of 80%

lement	Coverage	Covered Instructions	Missed Instructions	Total Instruction
🖊 🔛 IMS-Starter	83.7 %	3,754	730	4,484
✓	71.0 %	1,786	730	2,516
— Graph of the community of the co	62.7 %	341	203	544
> 🗾 Domain.java	0.0 %	0	105	10:
> 🗾 Customer.java	74.4 %	99	34	13:
> 🗾 Item.java	74.4 %	99	34	13.
> 🗾 Order.java	82.7 %	143	30	17
	0.0 %	0	189	18
> 🗾 IMS.java	0.0 %	.0	173	17
> 🗾 Runner.java	0.0 %	0	16	1
🗸 🎛 com.qa.ims.controller	81.5 %	525	119	64
> 🚺 Action.java	0.0 %	0	119	11
> 🗾 CustomerController.java	100.0 %	110	.0	11
> 🚺 ltemController.java	100.0 %	110	0	11
> 🗾 OrderController.java	100.0 %	305	0	30
	87.0 %	773	115	88
> 🗾 OrderDAO.java	80.1 %	318	79	39
> 🗾 ItemDAO.java	90.7 %	223	23	24
> 🗾 CustomerDAO.java	94.7 %	232	13	24
	58.6 %	147	104	25
> 🗾 Utils.java	5.2 %	3	55	5
> 🗾 DBUtils.java	74.6 %	144	49	19
✓ Src/test/java	100.0 %	1,968	0	1,96
> 🎛 com.qa.ims.controllers	100.0 %	1,137	0	1,13
> 🚻 com.qa.ims.persistence.dao	100.0 %	831	0	83

DEMO

Sprint review

All User stories were completed



Sprint Retrospective

- Worked in an organised manner
- Building blocks
- Full CRUD functionality

IMPROVMENTS:

- Follow Agile methodology
- Testing Coverage
- Add a front end

Conclusion

- Good project to understand the concepts of Java and how everything interacts
- Read up more on SQL statements
- Plan better for less stress
- Read up more on Mockito

Thank you for Listening