



IMS Project

By Lewis Fearon



Introduction

Consultant Journey

All the technologies i've learnt so far through my journey have all been new to me.

Java

Git, Github and Git bash

Maven

SQL

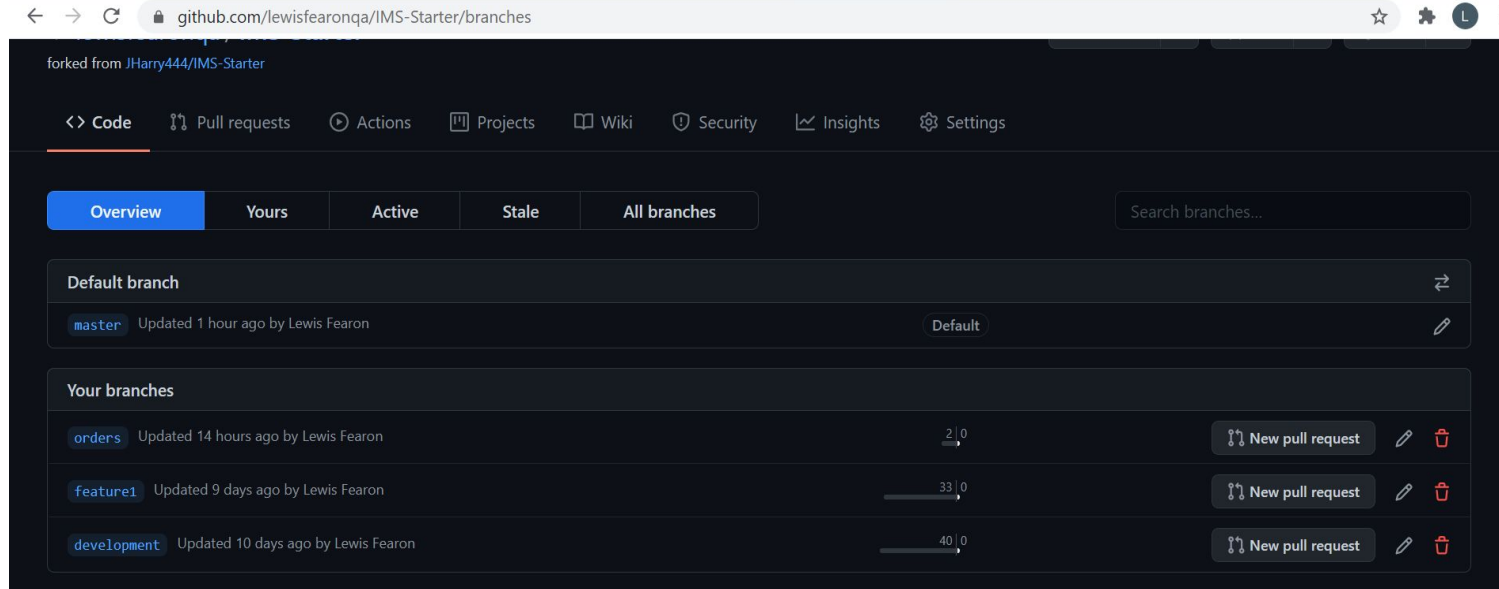
UML - objectaid

ERD

Jira

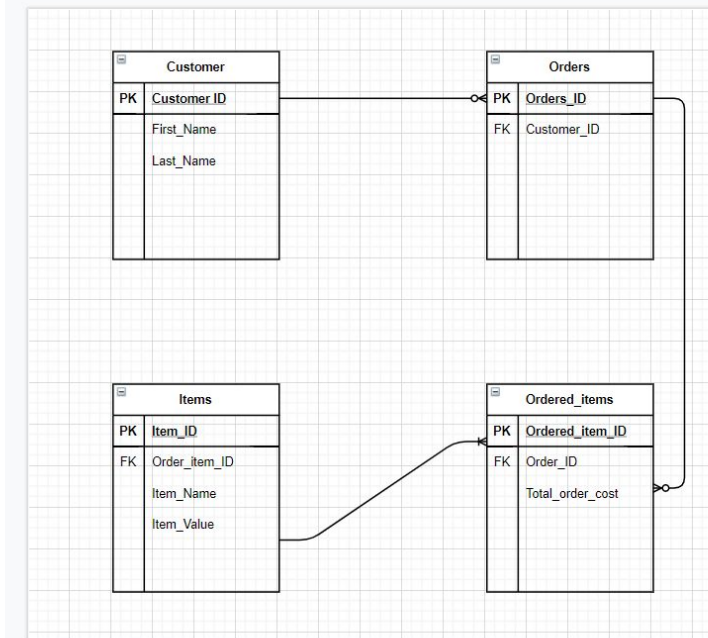
Junit and sonar

Version control

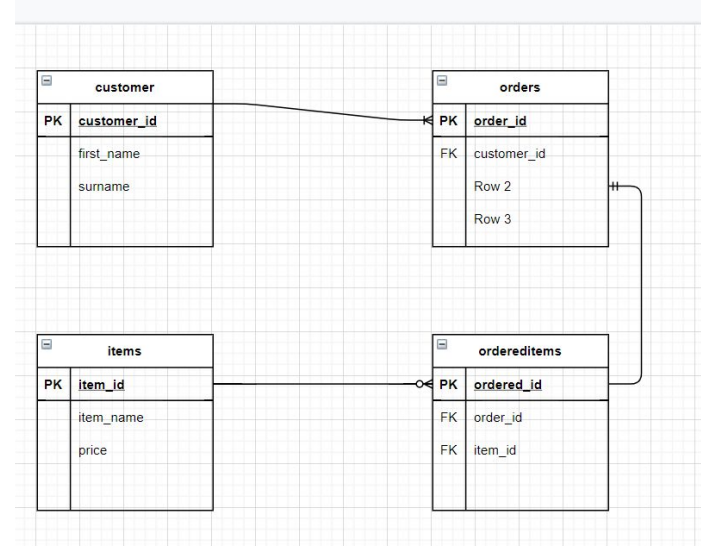


Here are the branches that i used within my project. These were created through git bash. I would commit my changes through git bash and push them to my github repository.

ERD



First ERD

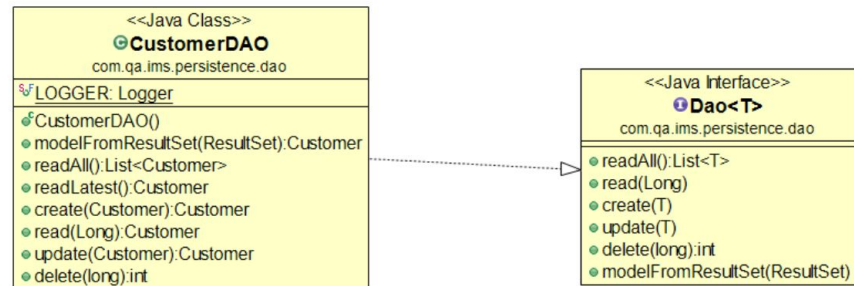
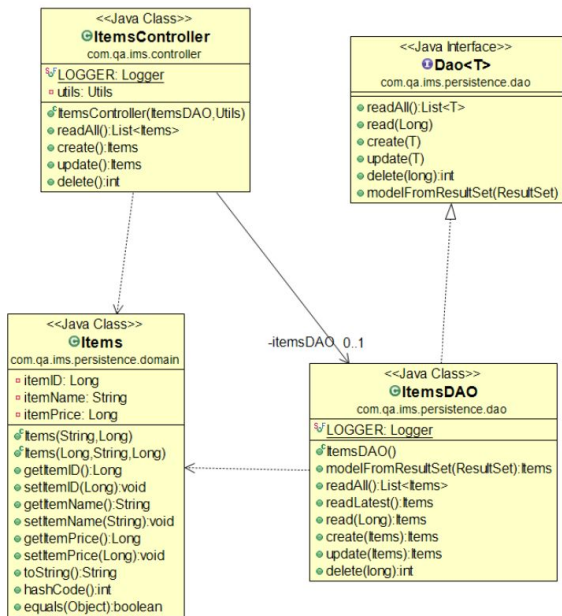


Final ERD

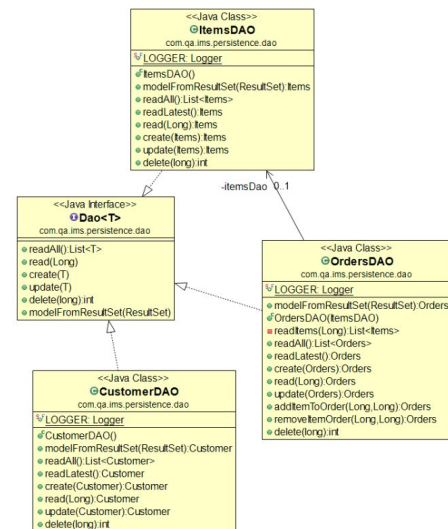
UML

Item classes

First UML of my dao package



UML diagram of my dao package after finishing my project



Testing

Sonar

The screenshot displays the SonarQube web interface. The top navigation bar includes links for Projects, Issues, Rules, Quality Profiles, Quality Gates, and Administration. The main content area shows the 'Overall Status' for the 'ims' project, which is marked as 'Passed'. A table of metrics is visible:

Metric	Value
Bugs	0
Vulnerabilities	0
Hotspots Reviewed	0
Code Smells	0
Coverage	65.4%
Duplications	0.0%
Lines	1.2k

Below the metrics, a message states: "Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine."

Junit

The screenshot shows the Eclipse IDE with a JUnit test class named `ItemDAOTest.java`. The code includes imports for `org.junit.Assert` and `org.junit.Test`. The test class contains several methods:

- `setUp()`: Initializes the `ItemDAO` object.
- `testCreate()`: Tests the `create()` method of `ItemDAO`.
- `testReadAll()`: Tests the `readAll()` method of `ItemDAO`.
- `testReadLatest()`: Tests the `readLatest()` method of `ItemDAO`.
- `testUpdate()`: Tests the `update()` method of `ItemDAO`.

The IDE also shows a 'Failure Trace' panel, which is currently empty.

Demonstration - item user stories

As a developer I want to create a function that allows an item to be deleted from the database.

As a developer I want to create a function that allows all items to be seen within the database.

As a developer I want to create a function that allows an item to be updated.

As a developer I want to create a function that let's items be added to the database.

As a developer I want to create a function to add an item to an order.

As a developer I want to create a delete order function.

Demonstration - order user stories

The screenshot shows a Jira user story card. At the top, the breadcrumb navigation reads 'Projects / IMS project / IMS-20'. The story title is 'As a developer I want to create a function to add an item to an order.' To the right of the title is a green 'Done' button with a dropdown arrow and a green checkmark icon. Below the title are three buttons: 'Attach', 'Create subtask', and 'Link issue', followed by a dropdown arrow and a three-dot menu. The 'Description' section has a placeholder text 'Add a description...'. The 'Activity' section shows 'Show: Comments History Work log'. On the right side, the 'Assignee' is 'Unassigned', the 'Reporter' is 'lfearon', the 'Labels' are 'None', and the 'Story Points' are '40'.

Projects / IMS project / IMS-20

As a developer I want to create a function to add an item to an order.

Done ✓ Done

Assignee Unassigned

Reporter lfearon

Labels None

Story Points 40

Attach Create subtask Link issue

Description

Add a description...

Activity

Show: Comments History Work log

Here you can see one of my user stories for orders. On the left of the picture i have assigned this story 40 story points. 40 was the highest i gave any of my stories

Sprint review and Sprint Retrospective

Sprint 1

As a developer I want to create a git repo for the project	IMS-2	↑	5
As a developer I want to create an risk assessment for this project	IMS-1	↑	5
As a developer I want create UML diagrams to show the progression of the classes within the project.	IMS-5	↑	5
As a developer I want to create many branches within my repo so that I can work on my code and not have the issue of bre	IMS-3	↑	5
As a developer I want to create an ERD diagram showing the relationship of the tables within the database through the pro	IMS-4	↑	5

Sprint 2

Status Report

Completed Issues

[View in Issue Navigator](#)

Key	Summary	Issue Type	Priority	Status	Story Points (50)
IMS-10	As a developer I want to create a orders table within the project database.	Story	High	DONE	20
IMS-17	As a developer I want to create a delete order function.	Story	High	DONE	30

Issues Not Completed

[View in Issue Navigator](#)

Key	Summary	Issue Type	Priority	Status	Story Points (110)
IMS-15	As a developer I want to create a create orders function.	Story	High	TO DO	30
IMS-16	As a developer I want to create a function to read all orders within the database.	Story	High	TO DO	40
IMS-18	As a developer I want to create a function to update orders.	Story	High	TO DO	40

Conclusion

Questions

Thank you for listening. Do you have any questions?