



INVENTORY MANAGEMENT SYSTEM

By Patryk Maryn

SPECIFICATION

CREATE A PROJECT WITH UTILISATION OF TOOLS AND METHODOLOGIES:

- AGILE & PROJECT MANAGEMENT (KANBAN BOARD)
- RELATIONAL DATABASE (MYSQL 5.7)
- CLOUD FUNDAMENTALS (GOOGLE GCP)
- REPOSITORY MANAGEMENT (NEXUS REPOSITORY)
- VERSION CONTROL SYSTEM (GIT) ●
- AUTOMATED TESTING (JUNIT AND MOCKITO)

APPLICATION THAT USES JAVA AS PROGRAMMING LANGUAGE TO INTERACT WITH DATABASE SENDING CREATE, READE, UPDATE, DELETE REQUESTS BY USER COMMAND LINE INPUTS AND DISPLAYING RESULTS IN COMMAND LINE



SCOPE:

- Kanban board
- Relational database
- Functional application
- Unit tests and integration tests
- Version control repository



WHAT I HAVE LEARNT

Lesson 1



Understanding the project requirements is the key, Not doing so may cause bad design decisions

Lesson 2



It's crucial to deliver demo or sample project to the client as soon as possible to find out if the project is on the good track

Lesson 3

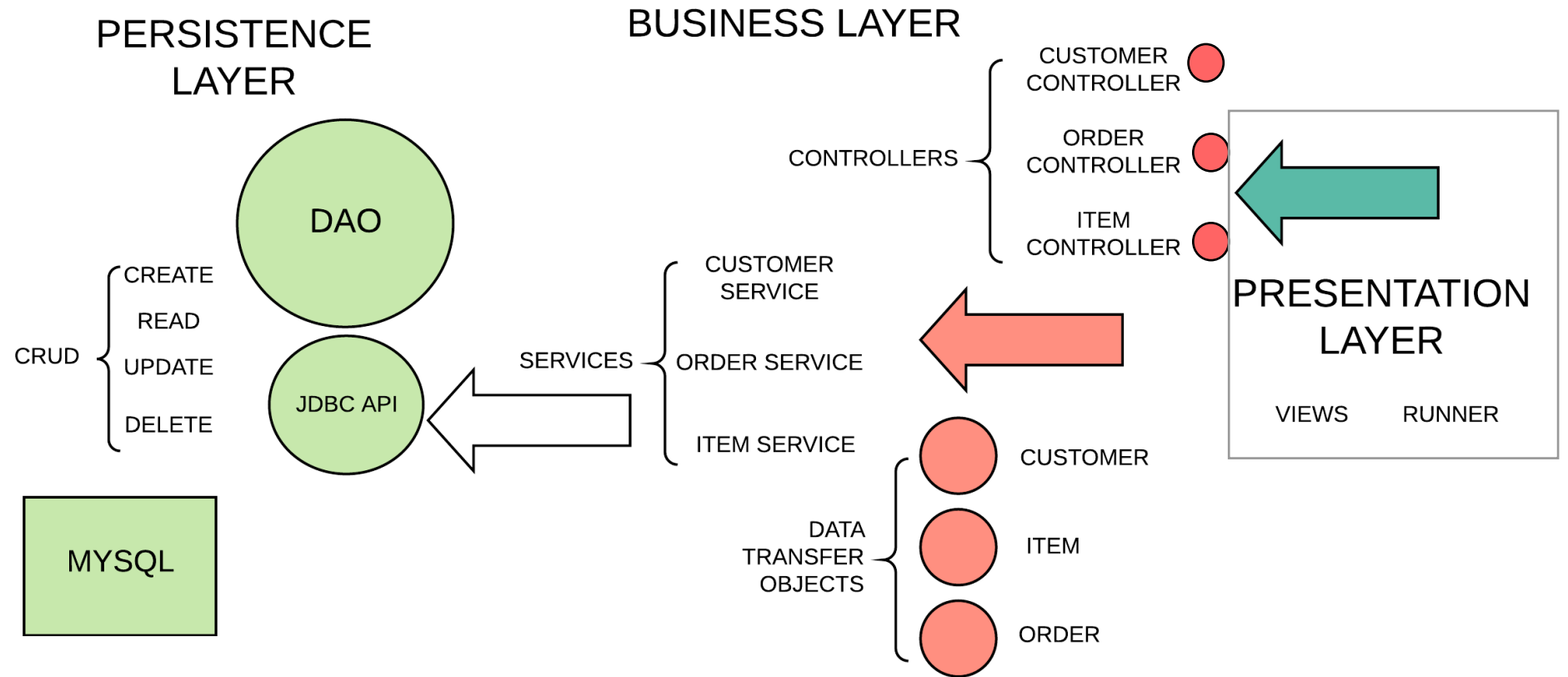


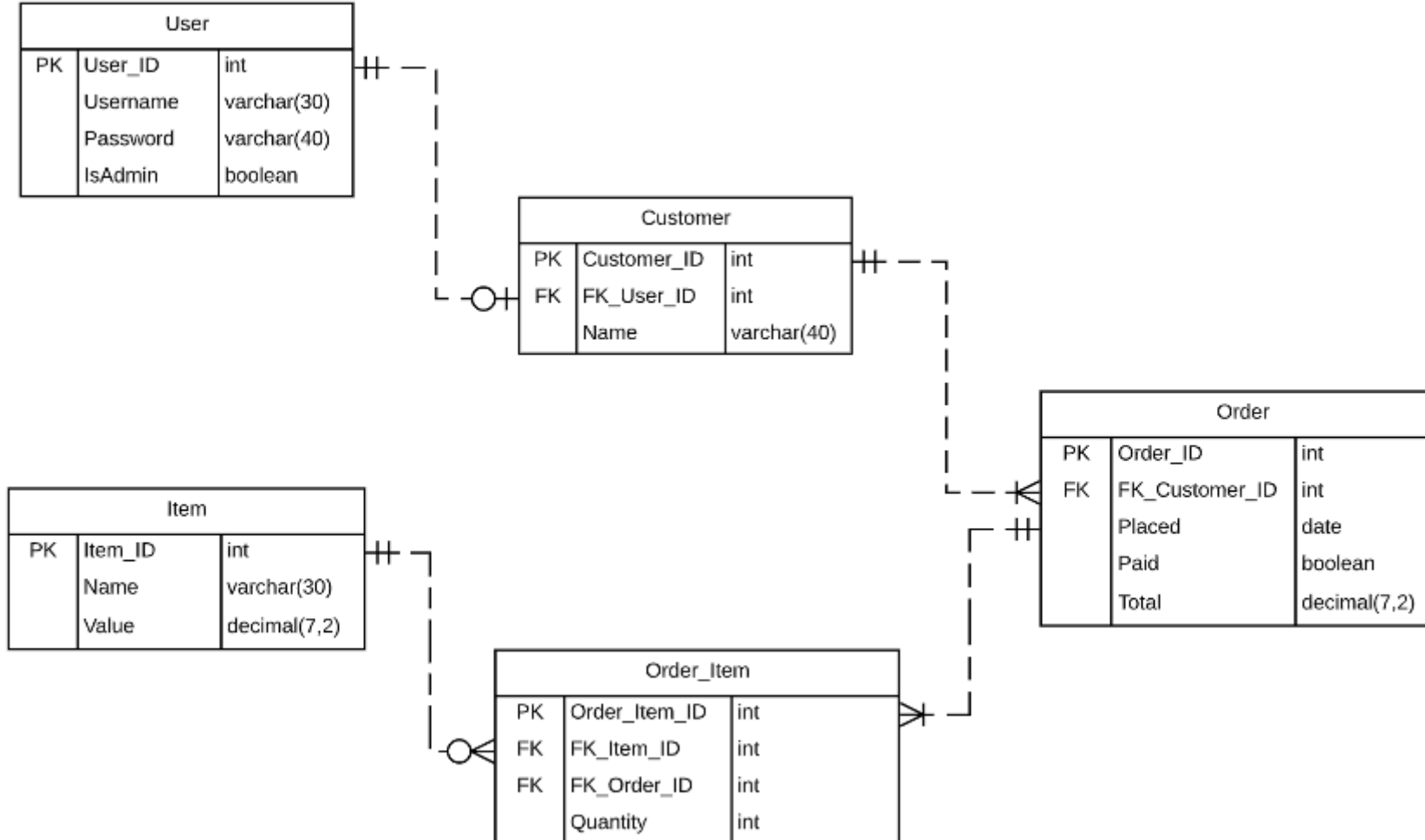
When designing classes following SOLID principles. Reliance on interfaces rather than class object will reduce dependency and make code easier to test and maintain

Lesson 4



Uniqueness of software may cause difficulties to estimate the schedule. However most of the problems have been solved already.

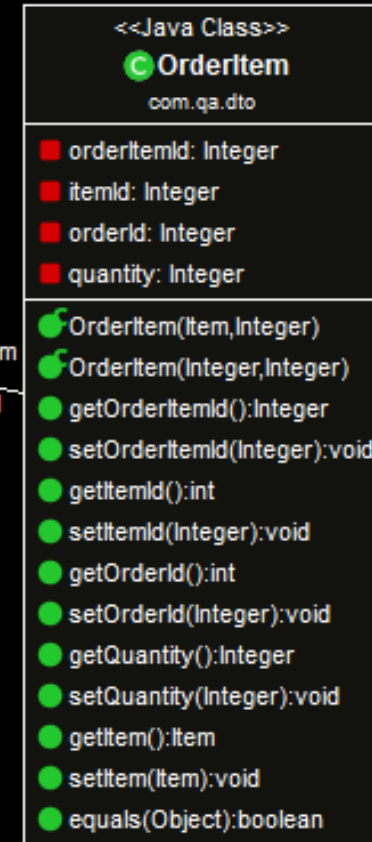
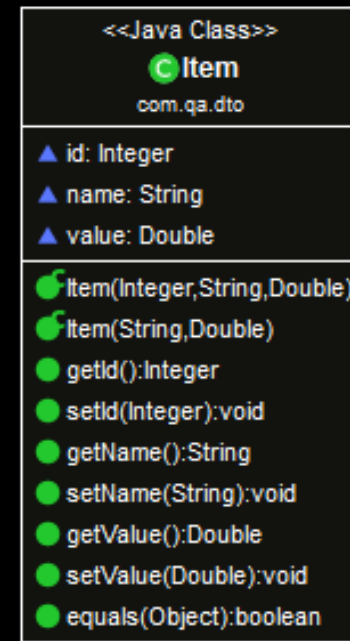
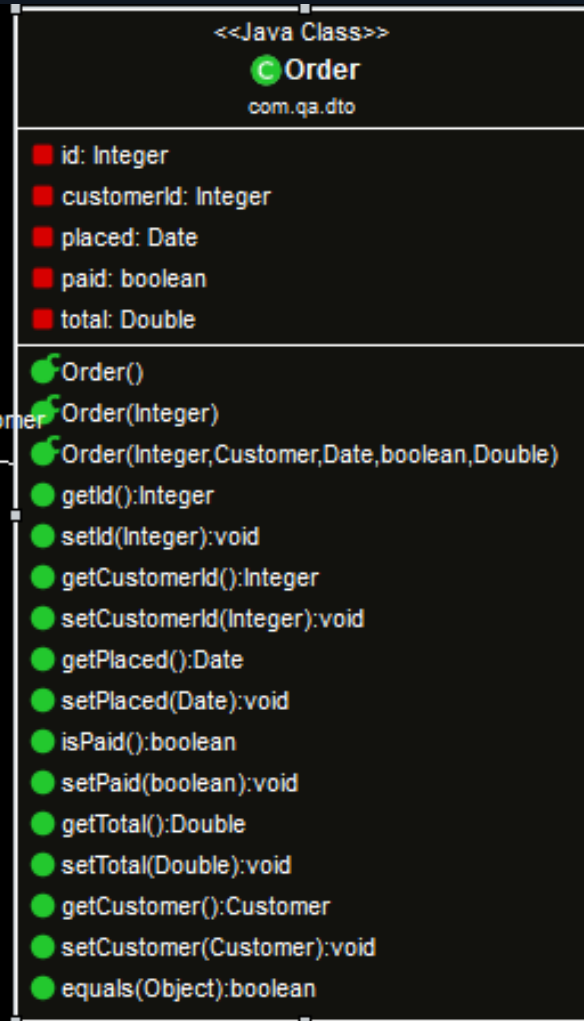
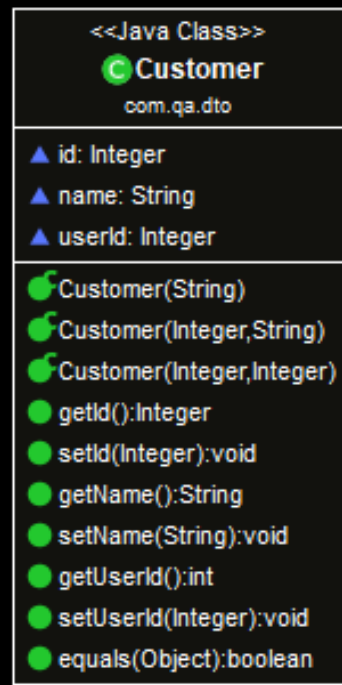




KANBAN BOARD BEFORE

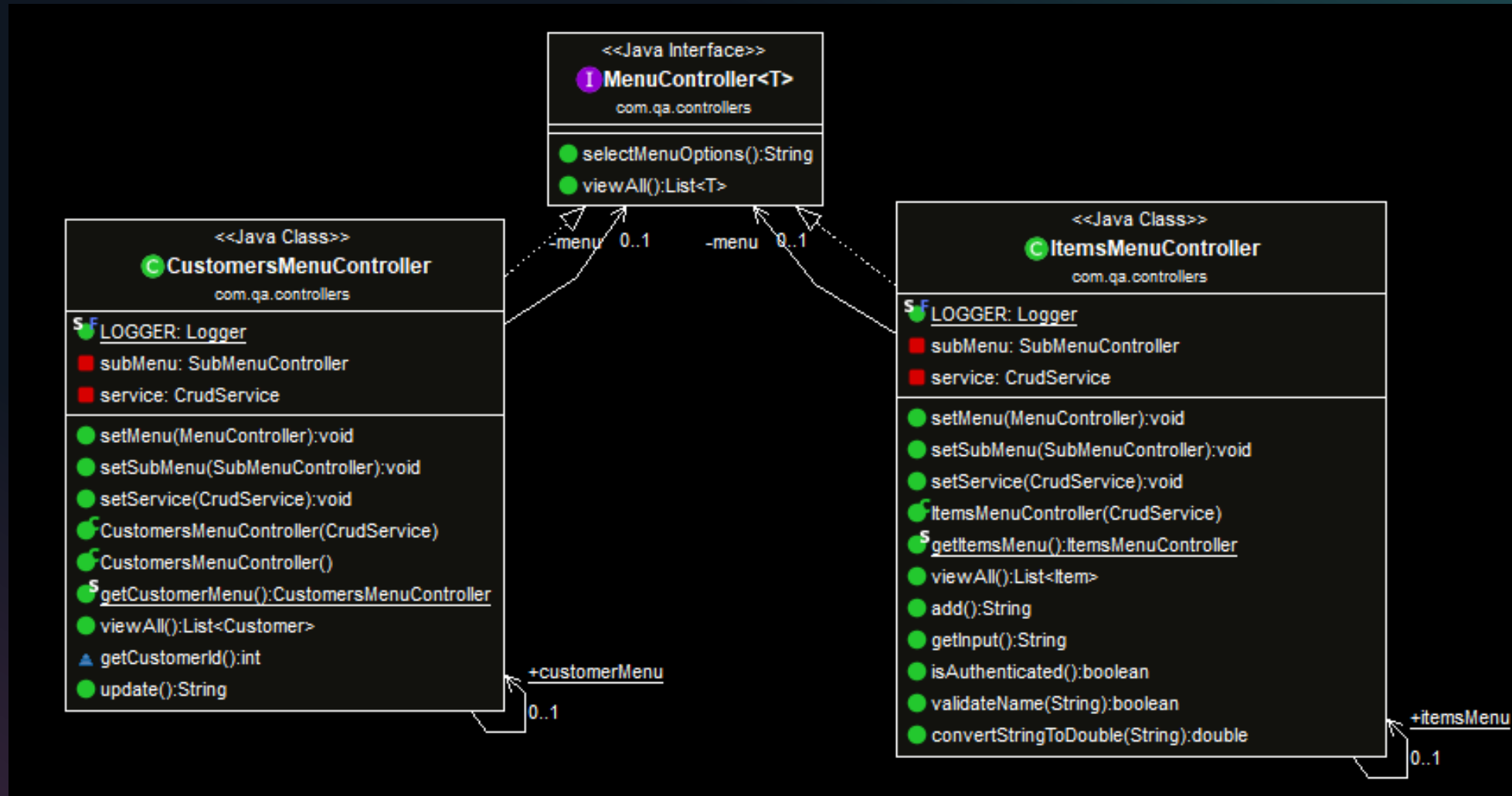
The image shows a Kanban board with three columns: 'To do', 'In progress', and 'Done'. Each column has a header with a count and a plus icon. The 'To do' column contains two task cards, 'In progress' contains five, and 'Done' is empty. Each task card has a title, a progress bar, and an assignee. At the bottom of each column, there is a footer with 'Automated as' and a 'Manage' link.

Column	Count	Task Title	Progress	Assignee
To do	2	As a user I would like to create new customer	0 of 3	Patryk997
		As a user I would like to view all Customers	0 of 3	Patryk997
In progress	5	create dynamically generated SQL statements.		Patryk997
		Hard coded SQL CRUD statements		Patryk997
		Remote database for the project is set up		Patryk997
		ERD for application completed		Patryk997
		Finish risk assessment		Patryk997
Done	0			

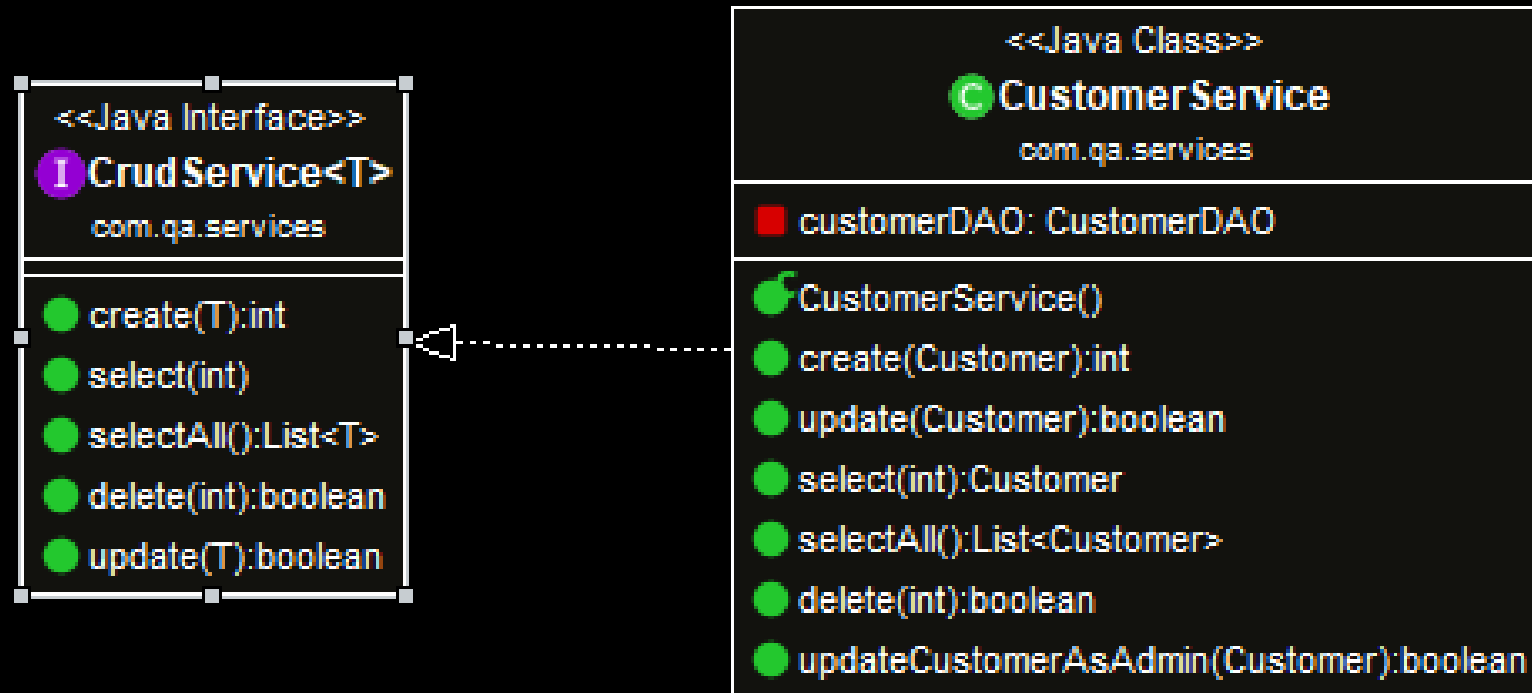


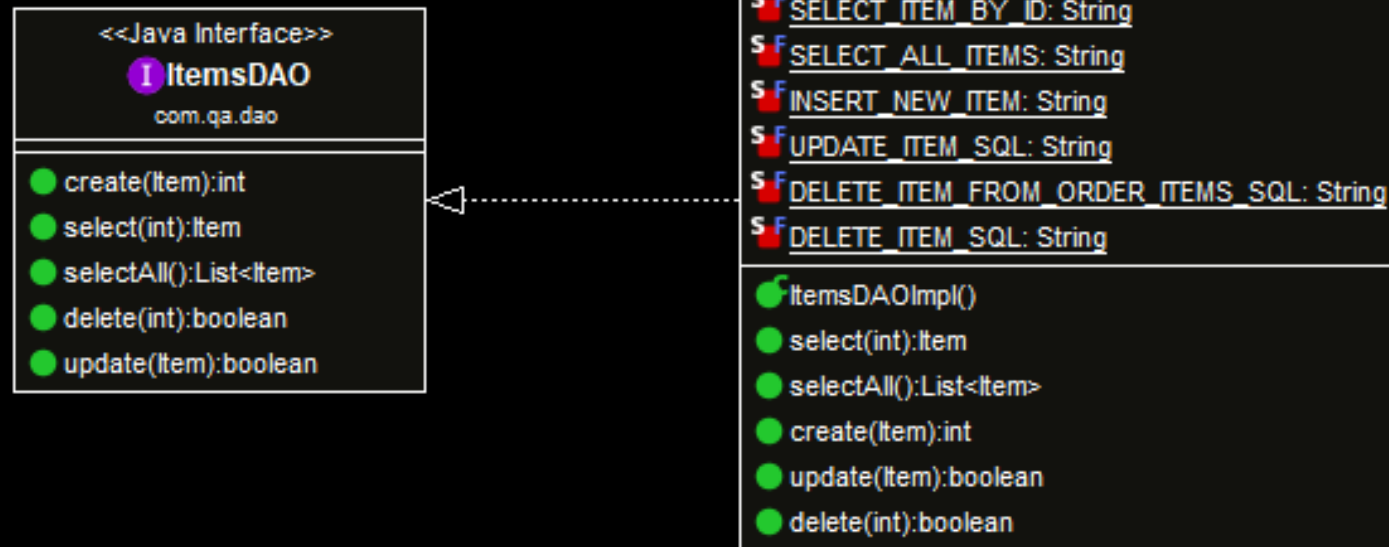
-customer
0..1

-item
0..1









Package Explorer JUnit

Finished after 9.883 seconds

Runs: 62/62 Errors: 0 Failures: 0

com.qa.controllers.MainControllerTest [Runner: JUnit 4] (0.452 s)

com.qa.controllers.subcontrollers.OrderSubControllerTest [Runner: JUnit 4] (2.076 s)

com.qa.services.OrderServiceTest [Runner: JUnit 4] (1.283 s)

com.qa.controllers.OrdersMenuControllerTest [Runner: JUnit 4] (0.628 s)

com.qa.controllers.ItemsMenuControllerTest [Runner: JUnit 4] (0.175 s)

com.qa.models.OrderTest [Runner: JUnit 4] (0.002 s)

com.qa.security.AuthenticateTest [Runner: JUnit 4] (0.124 s)

com.qa.controllers.subcontrollers.CustomerSubMenuControllerTest [Runner: JUnit 4] (0.124 s)

com.qa.models.CustomerTest [Runner: JUnit 4] (0.002 s)

com.qa.models.ItemTest [Runner: JUnit 4] (0.001 s)

com.qa.services.ItemsServiceTest [Runner: JUnit 4] (0.945 s)

main.InventoryAppTest [Runner: JUnit 4] (0.291 s)

com.qa.controllers.subcontrollers.ItemSubMenuControllerTest [Runner: JUnit 4] (1.160 s)

com.qa.services.CustomerServiceTest [Runner: JUnit 4] (0.936 s)

com.qa.controllers.CustomersMenuControllerTest [Runner: JUnit 4] (0.133 s)

com.qa.services.OrderItemServiceTest [Runner: JUnit 4] (1.159 s)

com.qa.models.OrderItemTest [Runner: JUnit 4] (0.002 s)

com.qa.controllers.UserLoginControllerTest [Runner: JUnit 4] (0.142 s)

TEST COVERAGE

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
QA-Java	81.7 %	5,553	1,242	6,795

KANBAN BOARD IN THE MIDDLE OF THE PROJECT

The Kanban board displays three columns: **To do** (6 items), **In progress** (3 items), and **Done** (11 items). Each item is a user story with a progress bar and a status indicator.

To do column:

- As a user I would like to delete an order in the system (1 of 3) #19 opened by Patryk997
- As a user I would like to add an item to an order (2 of 4) #20 opened by Patryk997
- As a user I would like to delete an item in the order (4 of 4) #22 opened by Patryk997
- As a user I would like to update an item in the system (1 of 2)

In progress column:

- As a user I would like to delete an item in the system (2 of 2) #16 opened by Patryk997
- As a user I would like to create an order in the system (5 of 5) #17 opened by Patryk997
- As a user I would like to view all orders in the system (3 of 3) #18 opened by Patryk997

Done column:

- As a user I would like to view all items in the system (2 of 2) #14 opened by Patryk997
- As a user I would like to add new item in the system (3 of 3) #13 opened by Patryk997
- As a user I would like to delete customer in the system (2 of 2) #12 opened by Patryk997
- As a user I would like to update customer in the system (2 of 2)

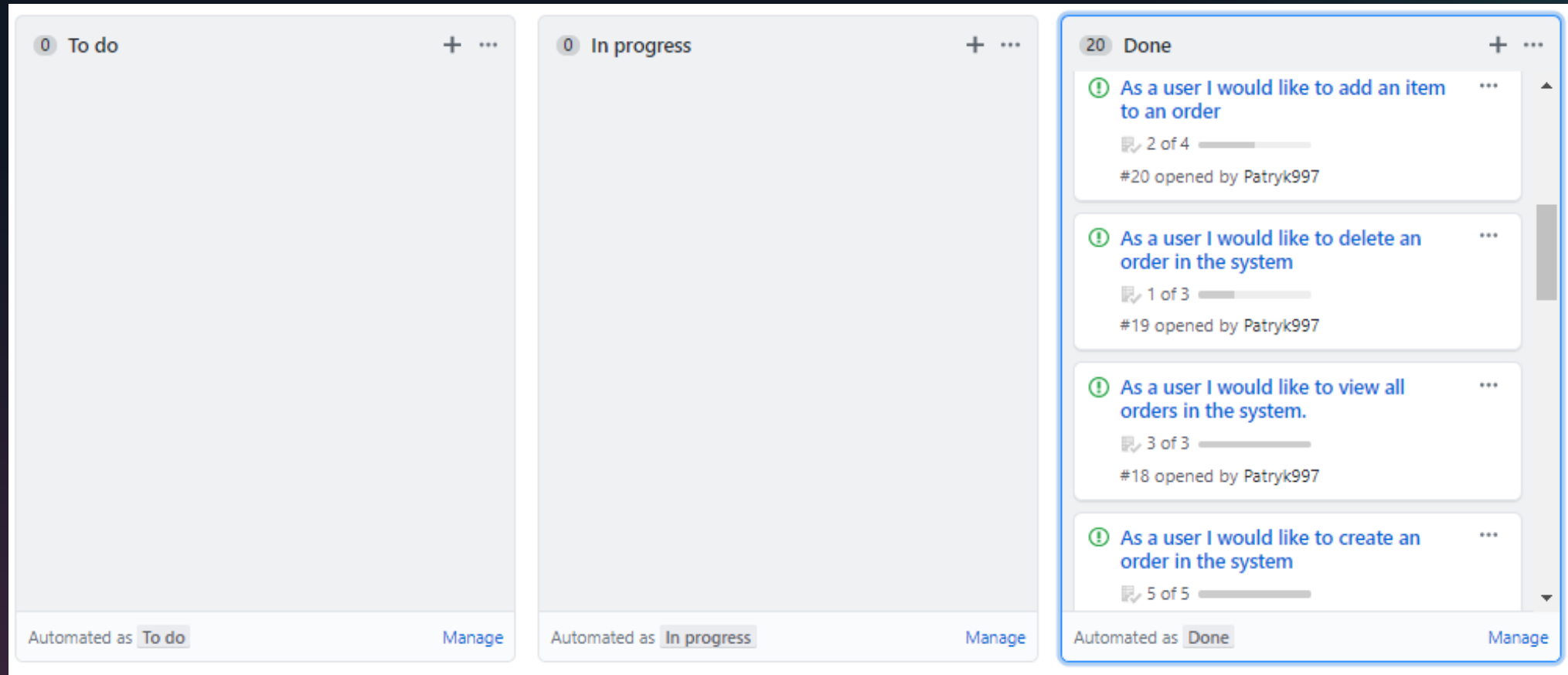
As a user I would like to add an item to an order #20

Open Patryk997 opened this issue 39 minutes ago · 0 comments

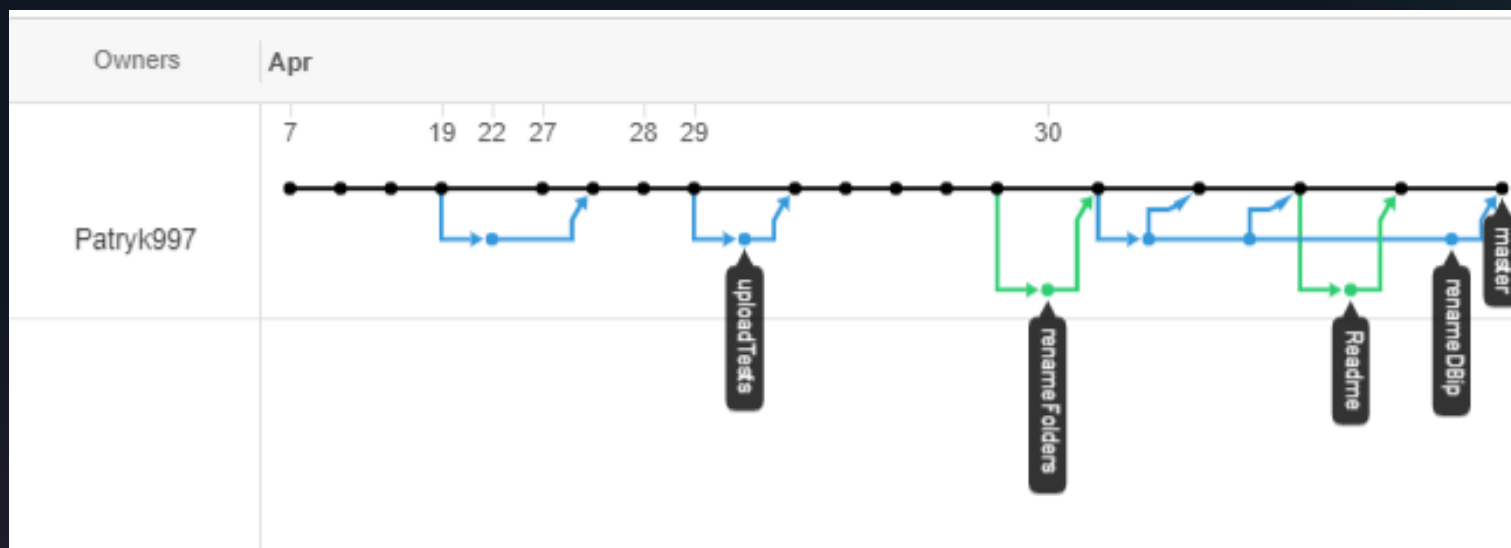
Patryk997 commented 39 minutes ago · edited

- ☒ create new OrderItem entity to be a join table for Order and Item
- ☒ create new OrderItem controller
- ☒ create new OrderItem DAO and service
- ☒ update Item controller

KANBAN BOARD AFTER



GITHUB NETWORK COMMITS



NEXUS REPOSITORY

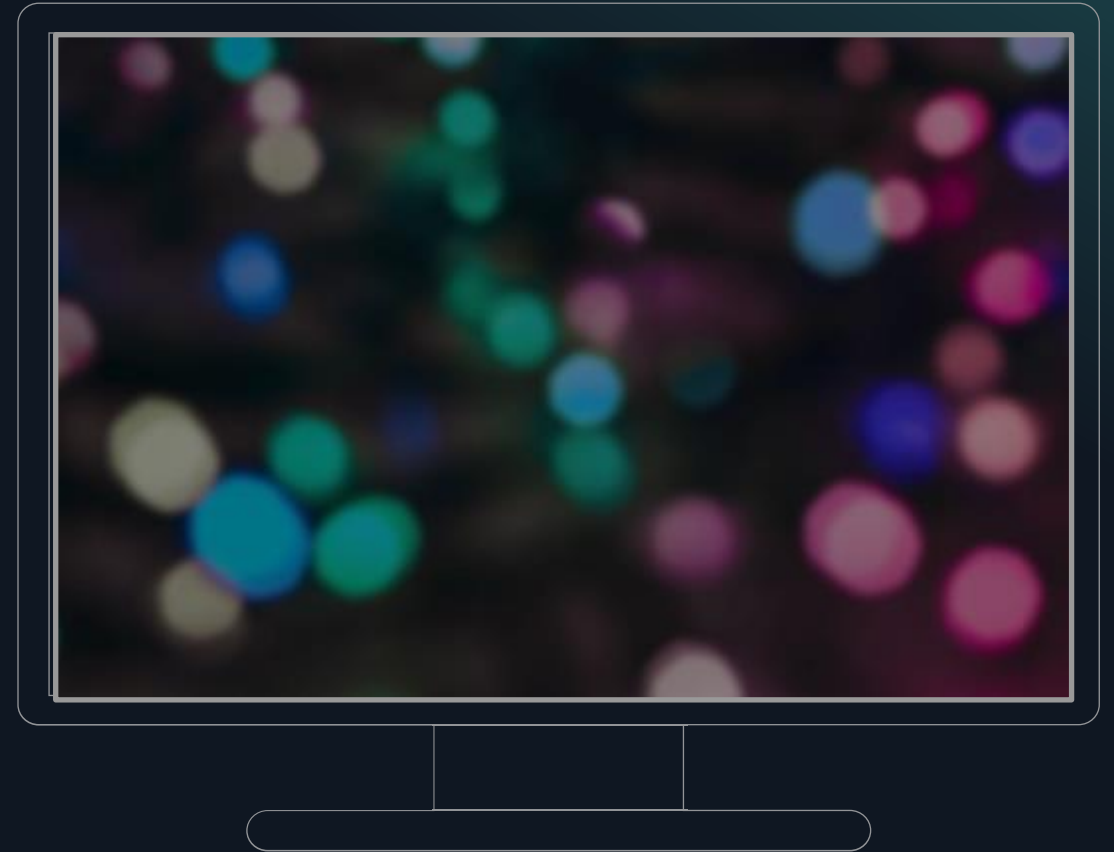
The screenshot displays the Sonatype Nexus Repository Manager interface. The top navigation bar includes the Sonatype logo, version 'OSS 3.22.1-02', a search bar, and user controls for 'admin' and 'Sign out'. The left sidebar shows navigation options: 'Browse' (selected), 'Welcome', 'Search', and 'Upload'. The main content area is titled 'Browse / maven-releases' and features an 'Upload component' button and a 'HTML View' link. A tree view on the left shows the directory structure: 'com' > 'qa' > 'QA-Java' > '0.0.2'. The selected artifact, 'QA-Java-0.0.2.jar', is highlighted, showing its associated files: 'QA-Java-0.0.2.jar.md5', 'QA-Java-0.0.2.jar.sha1', 'maven-metadata.xml', 'maven-metadata.xml.md5', and 'maven-metadata.xml.sha1'. On the right, a 'Delete asset' button is visible above a 'Summary' table.

Summary	
Repository	maven-releases
Format	maven2
Component Group	com.qa
Component Name	QA-Java
Component Version	0.0.2
Path	com/qa/QA-Java/0.0.2/QA-Java-0.0.2.jar
Content type	application/java-archive
File size	12.9 MB
Blob created	Thu Apr 30 2020 22:46:49 GMT+0100 (British Summer Time)
Blob updated	Thu Apr 30 2020 22:46:49 GMT+0100 (British Summer Time)
Last downloaded	has not been downloaded

RETROSPECTIVE

WHAT WAS DONE WELL, WHAT TO IMPROVE

- Project status urgent should be given from day 1
- Should follow more OOP and SOLID principles
- Followed 3 Layer application architecture





THANK YOU!

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