

The background is a gradient of dark blue to purple, speckled with small white dots. On the left side, there are several concentric circles and a large circular scale with degree markings from 140 to 260. Some circles have arrows indicating a clockwise direction. The overall aesthetic is technical and futuristic.

# PROJECT IMS

ADRIAN BUKSINSKI

# MY APPROACH

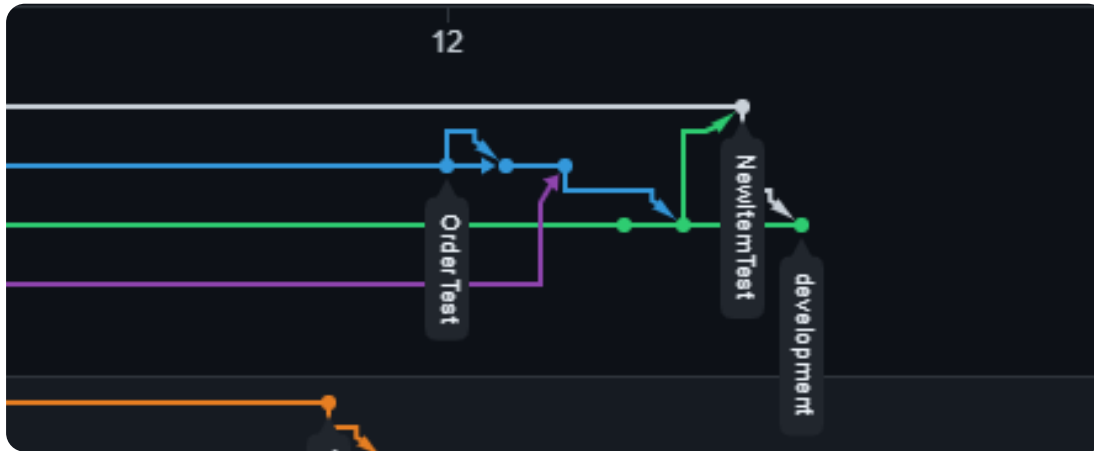


# CONSULTANT JOURNEY

- Java/Maven
- Version control: GitHub - Smart Commits
- Databases – MySQL
- Jira
- SonarQube
- Agile

# CI

- <https://github.com/ABuksinski/IMS-Starter.git>



```
Adrian@Adrian-Komputer MINGW64 ~/Desktop/Project/IMS-Starter (development)
$ git status
On branch development
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   src/main/java/com/qa/ims/controller/OrderController.java
    modified:   src/main/java/com/qa/ims/persistence/dao/OrderDAO.java
    modified:   src/main/java/com/qa/ims/persistence/dao/OrderItemDAO.java
    modified:   src/test/java/com/qa/ims/controllers/OrderControllerTest.java
    modified:   src/test/java/com/qa/ims/controllers/OrderItemControllerTest.java

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    NewUML.ucls

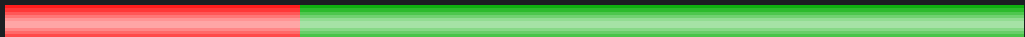
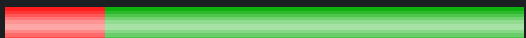
no changes added to commit (use "git add" and/or "git commit -a")

Adrian@Adrian-Komputer MINGW64 ~/Desktop/Project/IMS-Starter (development)
$
```

- Local repository



# TESTING

Element		Coverage
▼ IMS-Starter		71,0 %
> src/main/java		66,1 %
> src/test/java		80,7 %

TESTS CREATED FOR DOMAIN, DAO AND CONTROLLER CLASSES.

```
Welcome to the Inventory Management System!
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
STOP: To close the application
item
What would you like to do with item:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
create
Please enter a Product Name
Plate
Please enter a Product Price
3.99
Product created
```

```
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DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Item id: 1 Item name: cup Price: 20.0
Item id: 2 Item name: Plate Price: 3.99
```

# DEMONSTRATION

- For the Customer and Item options CRUD is very similar.
- As a Store Manager, I want to add items to database.
- As a Customer I want to read a list of available items.

```
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UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
update
Please enter the id of the Product you would like to update
2
Please enter a Product Name
Fork
Please enter a Product Price
1.99
Product Updated
```

```
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DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter the id of the Product you would like to delete
2
```

- As a user, I want to update items.
- As a user, I want to delete items.



```

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STOP: To close the application
order
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
create
Please enter your Customer ID
1
Order 3 created
Would you like to add item to an order? /r/n Yes or No
yes
Please enter an existing Order ID that you wish to add a Product to
3
Please enter an Item ID that you wish to add
1
Please enter the quantity
5
Item added

```

```

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CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
update
Please enter your Customer ID
1
[Customer ID: 1, Order ID: 1, Customer ID: 1, Order ID: 2, Customer ID: 1, Order ID: 3, Customer ID: 1, Order ID: 4]
Would you like to add a new Product or update existing order?
NEW or EXISTING
new
Please enter an existing Order ID that you wish to add a Product to
4
Please enter an Item ID that you wish to add
1
Please enter the quantity
10
Item added

```

- As a Customer, I want to create an order.
- As a Customer I want to add an item into order

- As a Customer I want to add an item into order
- As a Customer I want to update items in the order.

```
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order
What would you like to do with order:
CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
read
Customer ID: 1, Order ID: 1
Customer ID: 1, Order ID: 2
Customer ID: 1, Order ID: 3
Customer ID: 1, Order ID: 4
Order ID: 3, First Name: chris, Surname: perrins, Product: cup, Quantity: 5
Order ID: 4, First Name: chris, Surname: perrins, Product: cup, Quantity: 10
Would you like to see the total cost of your order?
Yes or No
yes
Enter the Id of your order:
4
Total Cost: 200.0
```

- As a user, I want to read a list of orders and what they contain.
- As a Customer, I want the

```

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CREATE: To save a new entity into the database
READ: To read an entity from the database
UPDATE: To change an entity already in the database
DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter your Customer ID
1
[Customer ID: 1, Order ID: 1, Customer ID: 1, Order ID: 2, Customer ID: 1, Order ID: 3, Customer ID: 1, Order ID: 4]
Would you like to delete a product or a whole order?
product or order
product
Please enter the id of an order you would like to change
4
Please enter the id of the item you would like to delete
1

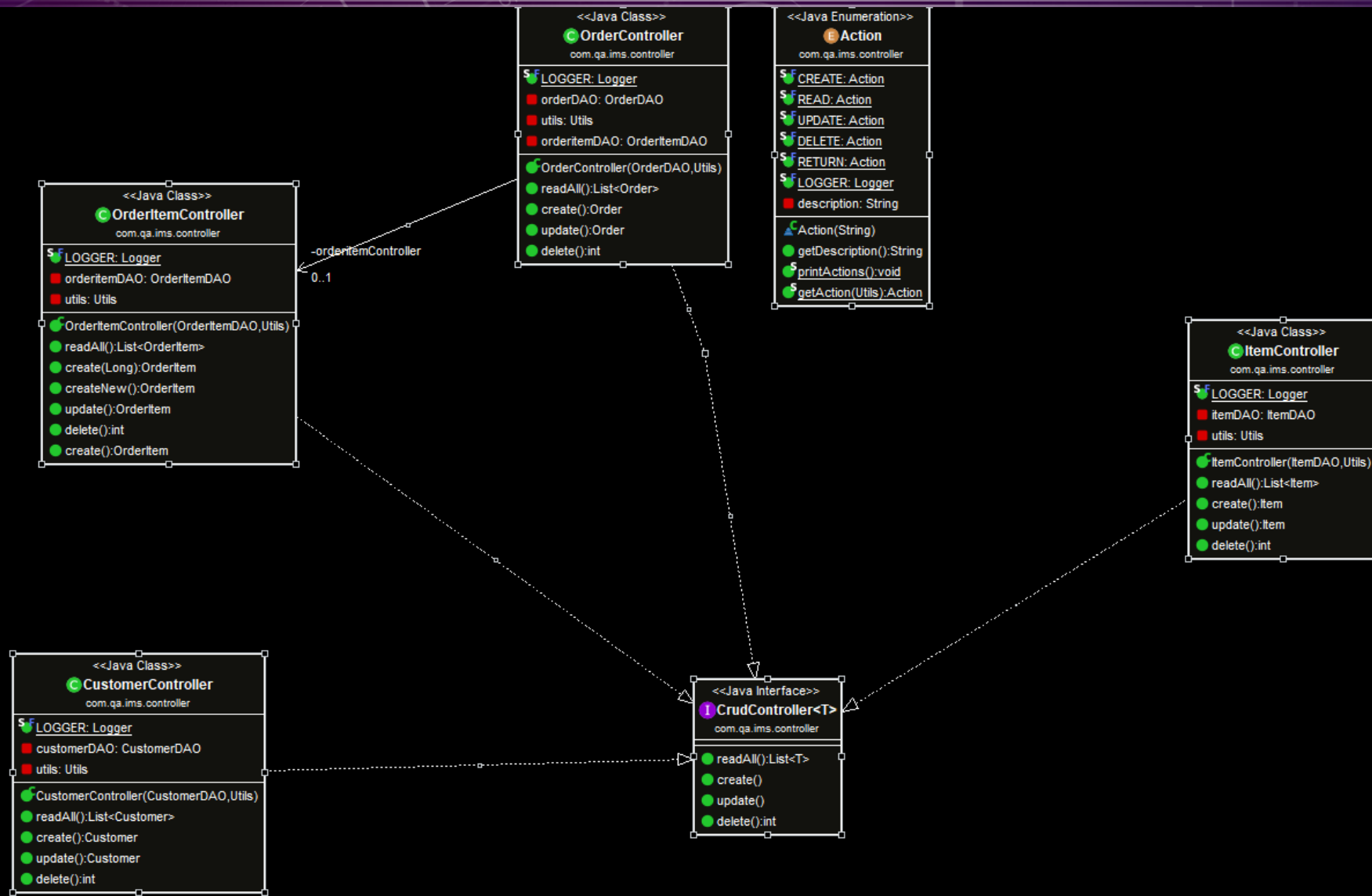
```

```

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READ: To read an entity from the database
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DELETE: To remove an entity from the database
RETURN: To return to domain selection
delete
Please enter your Customer ID
1
[Customer ID: 1, Order ID: 1, Customer ID: 1, Order ID: 2, Customer ID: 1, Order ID: 3, Customer ID: 1, Order ID: 4]
Would you like to delete a product or a whole order?
product or order
order
Please enter the ID of an order that you wish to delete
4

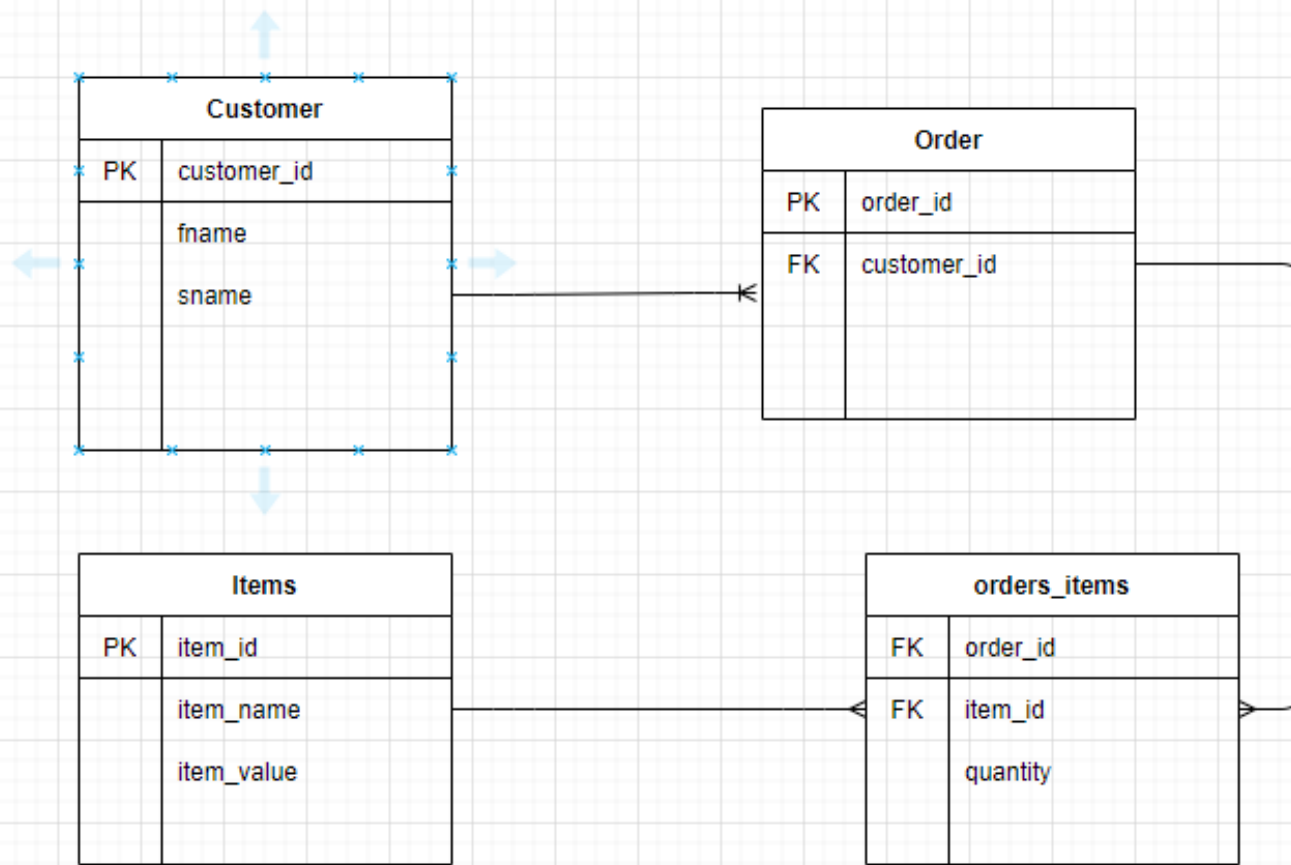
```

- As a Customer, I want to delete item from an order.
- As a Customer, I want to delete an order.



# UML





ERD

# SPRINT REVIEW

- Initial user stories based on Domain requirements.

Backlog 14 issues

Create sprint

As a customer, I want to add information to the system so it is stored in the database.	Customer	IMS-1	High	2
As a product owner, I want to be able to view all customers in the system, so I can access all customer data.	Customer	IMS-2	High	2
As a developer, I want to be able to update a customer in the system, so that I can keep the information up to date.	Customer	IMS-3	High	2
As an admin, I want to be able to delete a customer from the system, so I can have a list that doesn't contain inactive customers.	Customer	IMS-4	High	2
As an admin, I want to be able to add an item to the system, so that I can create the list of available items.	Items	IMS-5	High	-
As a customer, I want to be able to view all items so that I can select the product I am interested in from the list.	Items	IMS-6	High	-
As an admin, I want to be able to update the item list, so that customers can see all available and new items.	Items	IMS-7	High	-
As an admin I want to be able to delete item from the system, so that only available items are on the database.	Items	IMS-8	High	-
As a customer, I want to create an order, so that I can get needed products.	Orders	IMS-9	High	-
As a customer service I want to view all order list, so that I know what products I need to put in given order.	Orders	IMS-10	High	-
As a customer I want to be able to delete order, so that the company know that I changed mind on an order.	Orders	IMS-11	High	-
As a customer I want to add an item into an order, so that I can buy the items.	Orders	IMS-12	High	-
As a customer I want an app to calculate a cost for an order so that I know how much I have to pay for items.	Orders	IMS-13	High	-
As a customer I want to be able to delete item from order, so that I can delete unwanted item from my order list.	Orders	IMS-14	High	-

+ Create issue

# USER STORY

Projects / Project IMS / IMS-17 / IMS-14

1 1 1 1

As a customer I want to be able to delete item from order, so that I can delete unwanted item from my order list.

Attach Create subtask Link issue

## Description

acceptance criteria:

After selection delete option under "order", the programme should request Customer unique ID number, then display the orders corresponding for this ID and ask if the customer wants to delete Product from order or the whole order. After selecting the Product, the programme should request order Id and item ID that the customer wants to delete and then deleted item corresponding given ID from given order in the database.

## RECOMMENDED TEMPLATE

Product requirements

TRY

Align your team's vision, goals, and milestones on a single page. Automatically links with this Jira epic.

Try this template Dismiss

## Activity

Show: Comments History Work log

AB

Add a comment...

Pro tip: press M to comment

Done Done

Assignee

Unassigned

Reporter

AB Adrian Buksinski

Development

1 branch

3 commits

2 days ago

1 pull request

MERGED

Labels

None

Story Points

8

Epic Link

Orders

Sprint

None +1

Priority

High

Show 4 more fields

Original estimate, Time tracking, Components and Fix versions

Created January 29, 2021, 11:36 AM

Updated 8 hours ago

Configure

### IMS Sprint 1 8 issues

Customer Creation Name storage Customer ID generated Code Tested  
29/Jan/21 10:10 AM • 08/Feb/21 10:10 AM

0 0 24 Plan sprint ▾ ⋮

📌 As a customer, I want to add information to the system so it is stored in the database.	Customer	IMS-1	↑	2
📌 As a store manager, I want to be able to view all customers in the system, so I can access all customer data.	Customer	IMS-2	↑	2
📌 As a customer, I want to be able to update my information in the system, so that I can keep the information up to date.	Customer	IMS-3	↑	2
📌 As an admin, I want to be able to delete a customer from the system, so I can have a list that doesn't contain inactive customers.	Customer	IMS-4	↑	2
📌 As a store manager, I want to be able to add an item to the system, so that I can create the list of available items.	Items	IMS-5	↑	4
📌 As a customer, I want to be able to view all items so that I can select the product I am interested in from the list.	Items	IMS-6	↑	4
📌 As a store manager, I want to be able to update the item list, so that customers can see all available and new items.	Items	IMS-7	↑	4
📌 As a store manager, I want to be able to delete the item from the system, so that only available items are on the database.	Items	IMS-8	↑	4

### IMS Sprint 2 3 issues

Start sprint Plan sprint ▾ ⋮

📌 As a customer, I want to create an order, so that I can get needed products.	Orders	IMS-9	↑	8
📌 As a customer, I want to add an item into order, so that I can buy the items.	Orders	IMS-12	↑	12
📌 As a customer I want to be able to delete order, so that the company know that I changed mind on an order.	Orders	IMS-11	↑	8

+ Create issue



3 issues Estimate 28



### IMS Sprint 3 3 issues

Plan sprint ▾



- |   |        |        |   |    |
|---|--------|--------|---|----|
| As a store manager, I want to view all orders in a form of a list, so that I know what products I need to put in the given order. | Orders | IMS-10 | ↑ | 8  |
| As a customer I want to be able to delete item from order, so that I can delete unwanted item from my order list.                 | Orders | IMS-14 | ↑ | 8  |
| As a customer I want an app to calculate a cost for an order so that I know how much I have to pay for items.                     | Orders | IMS-13 | ↑ | 12 |

+ Create issue



3 issues Estimate 28

### IMS Sprint 4 4 issues

Plan sprint ▾



- |   |               |        |   |   |
|---|---------------|--------|---|---|
| As a developer, I want my Customer code tested, so that I am ensured that my code works in the various scenarios.                     | Testing       | IMS-25 | ↑ | 8 |
| As a developer, I want my Items code tested, so that I am ensured that my code works in the various scenarios.                        | Testing       | IMS-22 | ↑ | 6 |
| As a developer I want to update my GitHub repository often, so that I have lots of version point that I can use in case of a problem. | Documentation | IMS-28 | ↑ | 4 |
| As a developer I want UML diagram so that I can see how functions of my code interact with each other.                                | Documentation | IMS-18 | ↑ | 4 |

+ Create issue



4 issues Estimate 22

### IMS Sprint 5 1 issue

Plan sprint ▾



- |   |         |        |   |    |
|---|---------|--------|---|----|
| As a developer I want my code for orders to be tested, so that I am ensured that it will work in different scenarios. | Testing | IMS-23 | ↑ | 20 |
|---|---------|--------|---|----|

+ Create issue

## IMS Sprint 6 5 issues

Plan sprint ▾



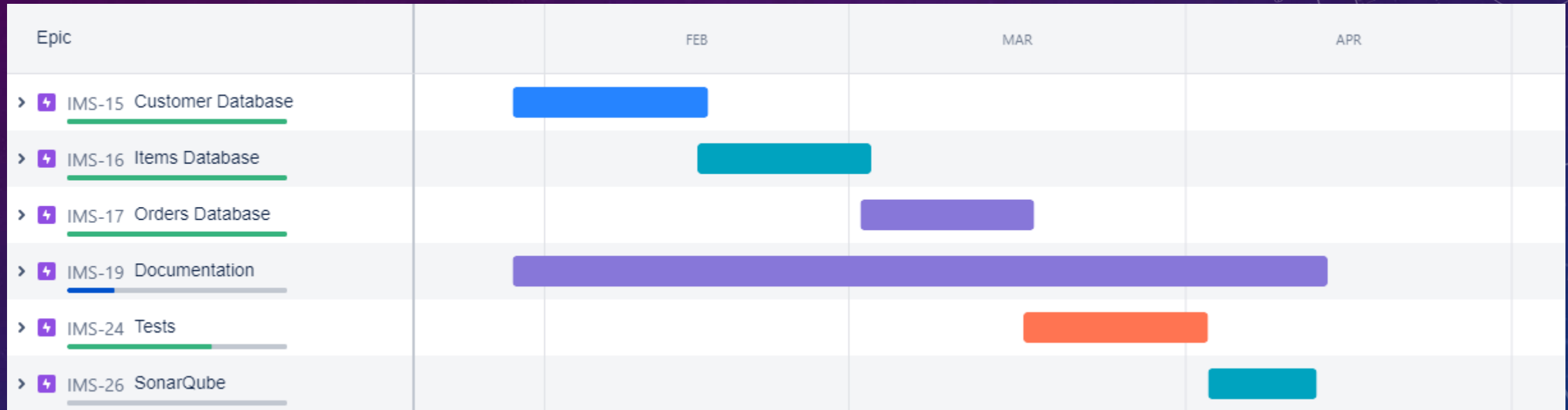
Ada developer, I want a risk assessment, so that I know what risks I might encounter and how to prevent them from happening.	Documentation	IMS-29	↑	4
As a Product Owner, I want ERD diagram, so I can understand how data is stored in databases.	Documentation	IMS-27	↑	4
As a developer I want my programme to not contain bug so it server user correctly.	Code Improvement	IMS-21	↓	2
As a developer I want my programme to be easy to maintain, so it runs smoothly and it is understandable to everyone.	Code Improvement	IMS-20	↓	8
As a developer, I want to prepare presentation, so that I can present my product to a product owner.	Documentation	IMS-43	↑	8

+ Create issue



5 issues Estimate 26

# ROADMAP



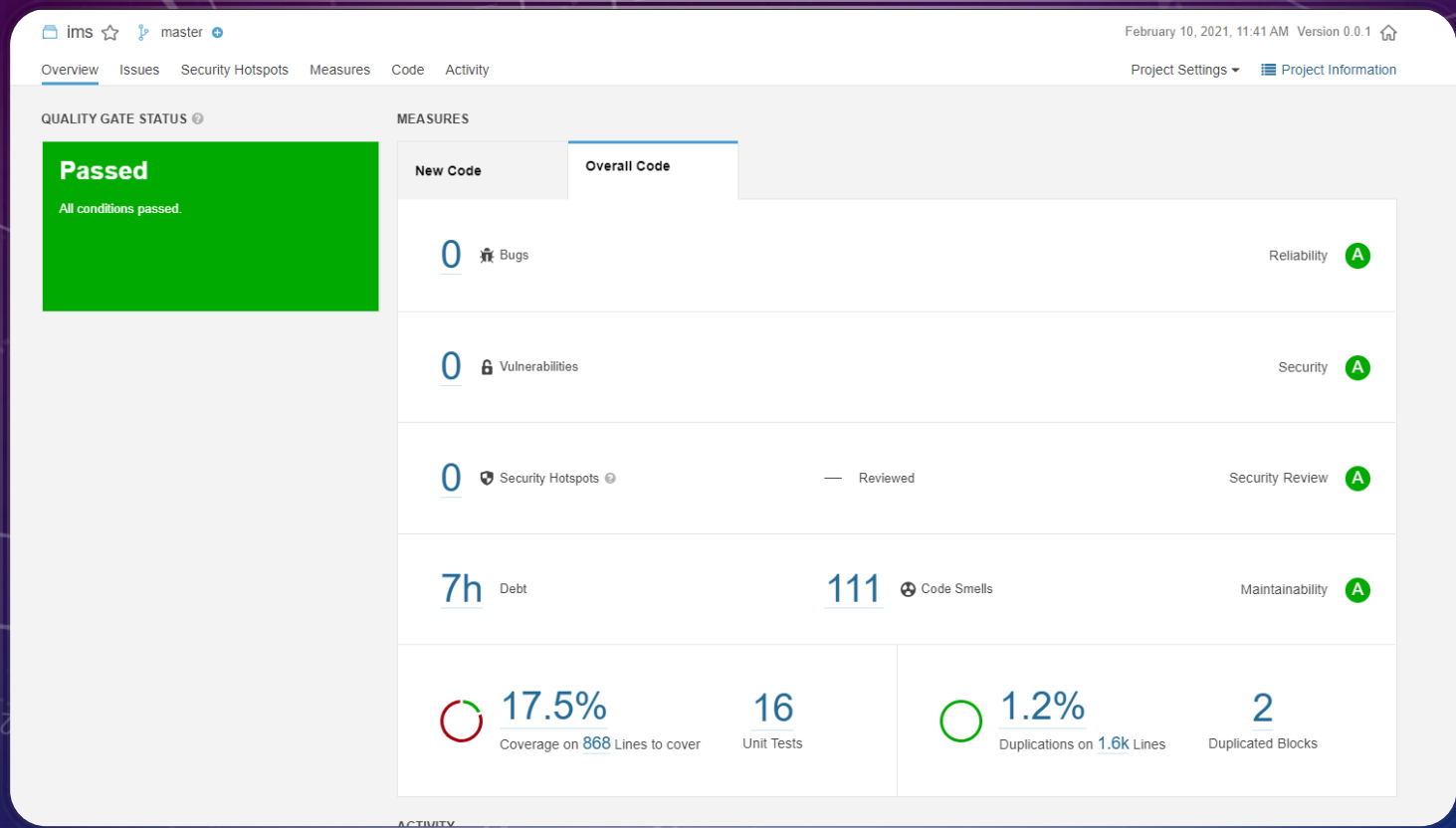
# PROGRESS TRACKING

Done	In progress	To do
<ul style="list-style-type: none"><li>• Customer Database</li><li>• Item Database</li><li>• Order Database</li><li>• Presentation</li></ul>	<ul style="list-style-type: none"><li>• GitHub –version control</li><li>• UML</li><li>• ERD</li><li>• Risk assessment</li><li>• Testing</li></ul>	<ul style="list-style-type: none"><li>• README.rd</li><li>• Fat.jar</li><li>• Merge development branch into Main</li></ul>



# SPRINT RETROSPECTIVE

What went well	What could be improved
<ul style="list-style-type: none"><li>• Creating the CRUD functions</li><li>• Using Smart Commits</li><li>• Using GitHub to restore files</li><li>• OOP</li></ul>	<ul style="list-style-type: none"><li>• Real time, up to date Jira</li><li>• Having someone Review pull requests</li><li>• Improvements in form of adding read functions and loggers in some places.</li><li>• Testing</li></ul>



SONARQUBE

INITIAL

QUALITY GATE STATUS ⓘ

MEASURES

Passed

All conditions passed.

New Code

Overall Code

0



Bugs

Reliability

A

0



Vulnerabilities

Security

A

0



Security Hotspots ⓘ

— Reviewed

Security Review

A

3h 8min

Debt

16



Code Smells

Maintainability

A



0.0%

Coverage on 888 Lines to cover

-

Unit Tests



1.1%

Duplications on 1.6k Lines

2

Duplicated Blocks

• Recent

# CONCLUSION

- Coding Crud task improved my java skills.
- Whole project gave a small overview of how the project might look in the work environment.

In future,

- I would like to go more in depth into Testing to improve my coverage.
- Further improve my organisation and planning with Jira.
- Further improve my java skills.



QUESTIONS?

