Inventory Management System

Felix Marley

Scope, application and ERD

Scope

Kanban Board Trello

Relational database MySQL

Functional application Built in Java

Unit tests and integration tests

JUnit and sonarqube

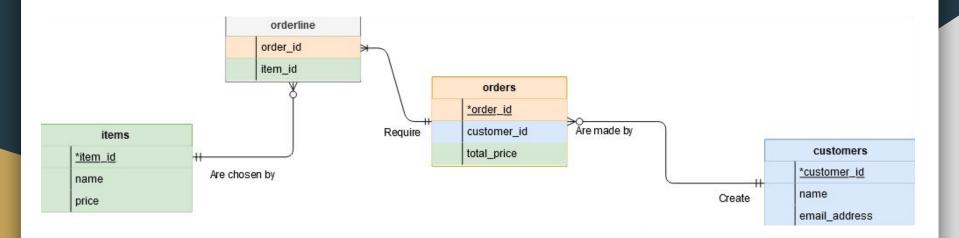
Version control system Git

Continuous integration pipeline Jenkins

Application

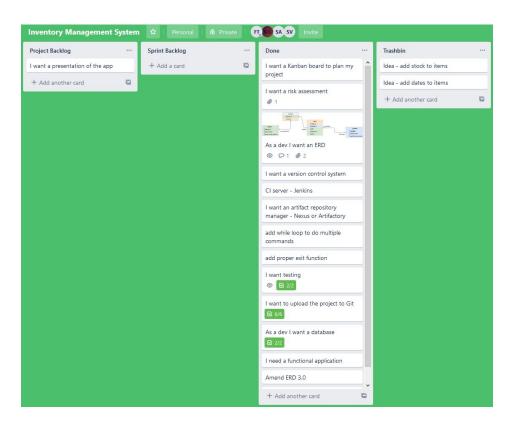


Entity relationship diagram





Trello





SQL

```
CREATE TABLE items (
item_id int NOT NULL UNIQUE AUTO_INCREMENT,
name varchar(45) NOT NULL UNIQUE,
price decimal(7,2) NOT NULL,
PRIMARY KEY (item_id)
CREATE TABLE customers (
customer_id int NOT NULL UNIQUE AUTO INCREMENT,
name varchar(45) NOT NULL,
address varchar(200) NOT NULL,
PRIMARY KEY (customer_id)
CREATE TABLE orders (
order_id int NOT NULL UNIQUE AUTO_INCREMENT,
customer_id int NOT NULL,
total_price decimal(7,2) NOT NULL,
PRIMARY KEY (order_id),
FOREIGN KEY (customer_id) REFERENCES customers (customer_id)
CREATE TABLE orderline (
order_id int NOT NULL,
item_id int NOT NULL,
FOREIGN KEY (order id) REFERENCES orders (order id)
FOREIGN KEY (item_id) REFERENCES items (item_id),
```

SQL

Tables

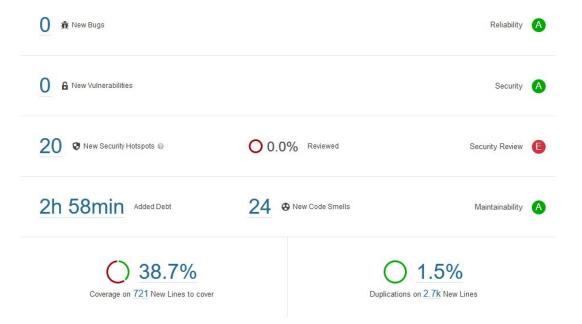
```
Database changed
mysql> show tables
+-----+
| Tables_in_ims |
+------+
| customers |
| items |
| orderline |
| orders |
```

Schemas

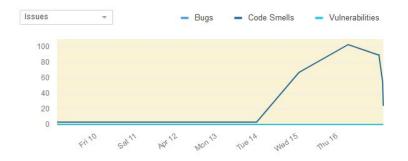
```
mysql> describe customers;
<del>+----</del>---+----+-----+----+
                   | Null | Kev | Default | Extra
customer id | int(11) | NO | PRI | NULL | auto increment
name | varchar(45) | NO | | NULL
address | varchar(200) | NO | | NULL
------
3 rows in set (0.01 sec)
mysql> describe items
| Field | Type | | Null | Kev | Default | Extra
item id | int(11) | NO | PRI | NULL | auto increment |
price | decimal(7,2) | NO | | NULL
3 rows in set (0.01 sec)
mysgl> describe orderline;
Field | Type | Null | Key | Default | Extra |
+----+
| order id | int(11) | NO | MUL | NULL
| item id | int(11) | NO | MUL | NULL
2 rows in set (0.00 sec)
mysql> describe orders;
| Field | Type | Null | Key | Default | Extra
order id | int(11) | NO | PRI | NULL
                                  | auto increment
customer id | int(11) | NO | MUL | NULL
total price | decimal(7,2) | NO | | NULL
+-----
3 rows in set (0.01 sec)
```

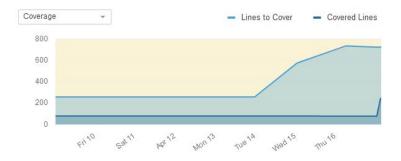
Sonarqube

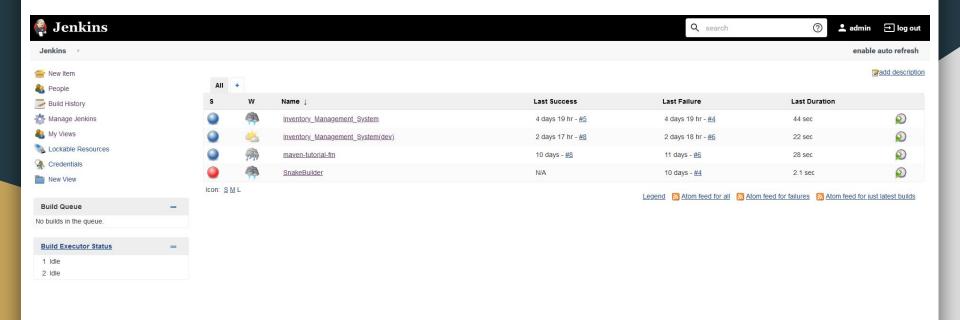
Sonarqube review



Sonarqube review in depth







Build



	Build	Time Since ↑	Status	
	Inventory Management_System(dev) #8	2 days 19 hr	stable	_
•	Inventory_Management_System(dev) #7	2 days 20 hr	back to normal	
	Inventory_Management_System(dev) #6	2 days 21 hr	broken since this build	
	Inventory_Management_System(dev) #5	2 days 22 hr	stable	
•	Inventory_Management_System(dev) #4	2 days 23 hr	stable	
•	Inventory_Management_System(dev) #3	3 days 16 hr	stable	
	Inventory_Management_System(dev) #2	3 days 16 hr	stable	
	Inventory Management_System(dev) #1	4 days 21 hr	stable	
	Inventory Management System #5	4 days 21 hr	back to normal	
	Inventory_Management_System #4	4 days 22 hr	broken for a long time	
	Inventory Management System #3	4 days 22 hr	broken for a long time	
	Inventory Management_System #2	4 days 22 hr	broken for a long time	
	Inventory_Management_System #1	4 days 22 hr	broken since this build	

Bug fixes

Bug fixes

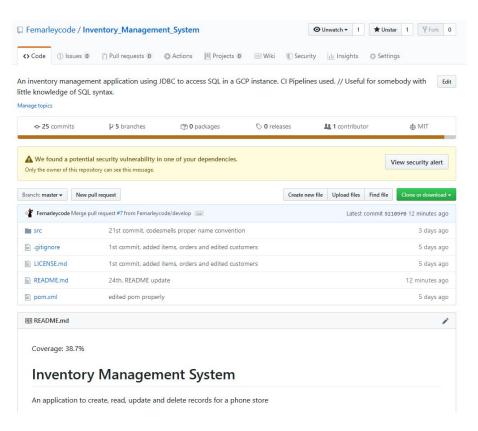
```
order
INFO - What would you like to do with order:
INFO - CREATE: To save a new item into the database
INFO - READ: To read an item from the database
INFO - UPDATE: To change an item already in the database
TNFO - DELETE: To remove an item from the database
INFO - RETURN: To return to domain selection
create
INFO - Please enter a customer id
INFO - Please enter a total price
50
INFO - Please enter a item id
DEBUG - [Ljava.lang.StackTraceElement;@6c61a903
ERROR - Unknown column 'item id' in 'field list'
TNFO - Customers created
INFO - Task finished.
```

```
INFO - Which entity would you like to use?
INFO - CUSTOMER: Information about customers
INFO - ITEM: Individual Items
INFO - ORDER: Purchases of items
INFO - ORDERLINE: Manage lists of items
INFO - STOP: To close the application
order
INFO - What would you like to do with order:
INFO - CREATE: To save a new item into the database
INFO - READ: To read an item from the database
INFO - UPDATE: To change an item already in the database
INFO - DELETE: To remove an item from the database
TNEO - RETURN: To return to domain selection
update
INFO - Please enter the order id of the order you would
INFO - Please enter a customer id
INFO - Please enter a total price
INFO - Please enter a item id
DEBUG - [Ljava.lang.StackTraceElement;@6d7fc27
ERROR - Unknown column 'item id' in 'field list'
INFO - Customers Updated
INFO - Task finished.
```

Bug fixes

```
orderline
INFO - Which entity would you like to use?
INFO - CUSTOMER: Information about customers
INFO - ITEM: Individual Items
INFO - ORDER: Purchases of items
INFO - ORDERLINE: Manage lists of items
INFO - STOP: To close the application
orderline
INFO - What would you like to do with orderline:
TNFO - CREATE: To save a new item into the database
INFO - READ: To read an item from the database
INFO - UPDATE: To change an item already in the databa
INFO - DELETE: To remove an item from the database
INFO - RETURN: To return to domain selection
create
INFO - Please enter an order id
INFO - Please enter an item id
                                                       INFO - OrderLine Updated
                                                       INFO - Task finished.
DEBUG - [Ljava.lang.StackTraceElement;@4f74980d
ERROR - Column count doesn't match value count at row
INFO - OrderLine created
INFO - Task finished.
```

INFO - What would you like to do with orderline: INFO - CREATE: To save a new item into the database INFO - READ: To read an item from the database INFO - UPDATE: To change an item already in the database INFO - DELETE: To remove an item from the database INFO - RETURN: To return to domain selection update INFO - Please enter the order_id of the orderLine you INFO - Please enter a item_id DEBUG - [Ljava.lang.StackTraceElement;@6e15fe2 ERROR - Illegal operation on empty result set.



Git bash

```
Felix@DESKTOP-CNP6M84 MINGW64 ~/eclipse-workspace/inventory_managament_system2 (develop)
$ git branch
codesmells
* develop
feature
master

Felix@DESKTOP-CNP6M84 MINGW64 ~/eclipse-workspace/inventory_managament_system2 (develop)
$ git status
On branch develop
Your branch is up to date with 'origin/develop'.

nothing to commit, working tree clean

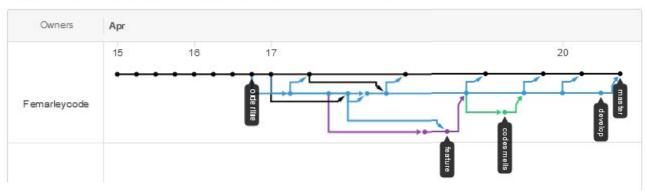
Felix@DESKTOP-CNP6M84 MINGW64 ~/eclipse-workspace/inventory_managament_system2 (develop)
$ |
```

Directory layout

Name ^	Date modified	Туре	Size
.dbeaver	14/04/2020 16:45	File folder	
.git	20/04/2020 09:26	File folder	
.settings	15/04/2020 12:37	File folder	
src	14/04/2020 12:29	File folder	
target	15/04/2020 12:39	File folder	
.classpath	14/04/2020 12:31	CLASSPATH File	2 K
gitignore .	15/04/2020 10:22	Text Document	1 K
project .	14/04/2020 12:31	PROJECT File	1 K
LICENSE.md	14/04/2020 12:29	Markdown Source	2 K
log-file.log	17/04/2020 14:42	Text Document	133 K
pom.xml	15/04/2020 12:41	XML Document	4 K
README.md	20/04/2020 09:26	Markdown Source	2 K

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



21st commit, codesmells proper name convention * Femarleycode committed 3 days ago		Ê	7ac0ad2	0
Merge pull request #4 from Femarleycode/develop **Femarleycode committed 3 days ago	Verified	ê	45ed89d	⇔
Merge pull request #3 from Femarleycode/feature	Verified	盦	2dadeca	()
Merge branch 'feature' of https://github.com/Femarleycode/Inventory_M ** Femarleycode committed 3 days ago			b14c096	0
17th commit, large testing update Femarleycode committed 3 days ago		含	972a43e	0
Merge pull request #2 from Femarleycode/develop	Verified	盦	81d9fb1	()
Merge branch 'master' into develop ** Femarleycode committed 3 days ago	Verified	Ê	3c7bb2e	()
Merge pull request #1 from Femarleycode/feature **Femarleycode committed 3 days ago	Verified	Ê	fd6699f	0
Merge branch 'develop' into feature **Femarleycode committed 3 days ago	Verified	Ê	a0aa2cb	()
code smells - var names & testing Femarleycode committed 3 days ago		Ê	917a857	\Diamond
merging tests Femarleycode committed 3 days ago		ê	48cc11a	0
10th commit, testing for custs and items Femarleycode committed 3 days ago		ê	d9de70a	⇔
9th commit, updated orders, cleaned up comments, bugfixes, grammar ch Femarleycode committed 3 days ago		Ê	1432f01	()

Areas for improvement

Areas for improvement

- Calculate
- Testing coverage at 80%
- Orderline
- Security (SQL injection)

Conclusion

Conclusion

- Coding fundamentals
- Databases
- Developer tools
- Syntax

Thank you

