IMS - Project

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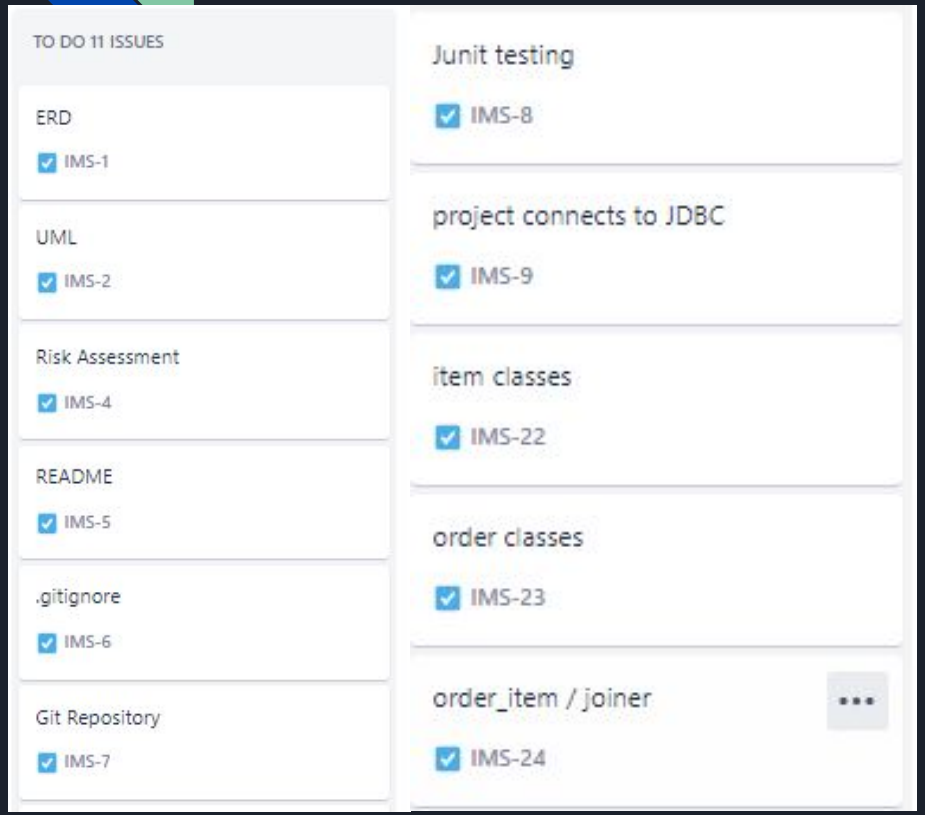
Introduction:

In this presentation I will be discussing the following:

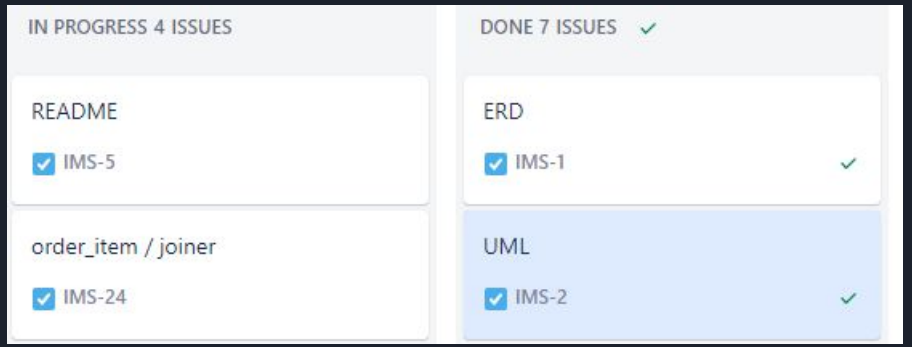
- Jira
- ERD
- UML
- Version control
- Sprint retrospective
- Testing review
- Conclusion
- Q&A

Jira - To Do



Jira to do list:

- Made the list as simple as possible ensuring to mark any completed task as complete
- Moved any attempted task into the 'in progress' section

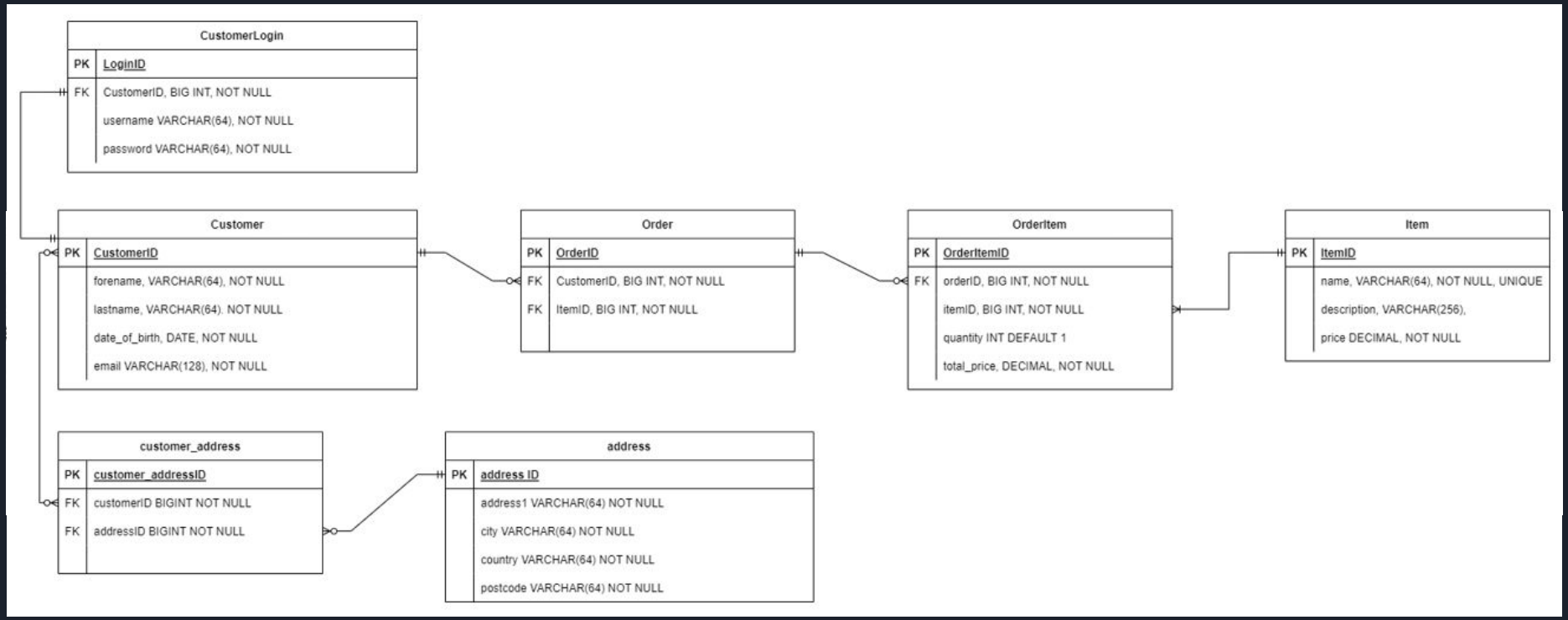


Jira - User Stories

- Very useful to understand why certain pieces of code need to be implemented
- Any user story that has been implemented is moved to the ‘done’ section

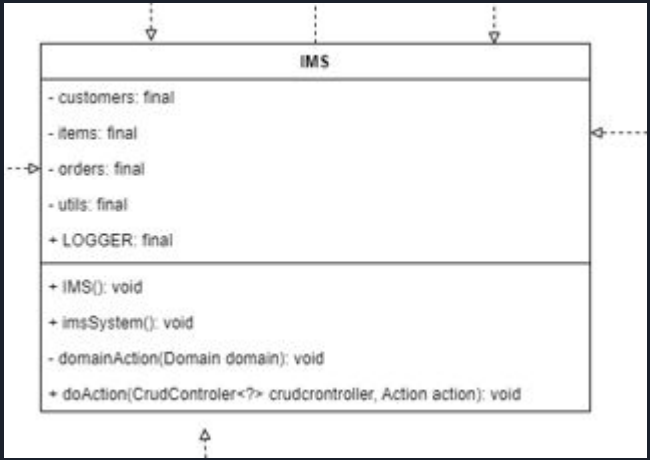
~~IMS-10~~	As a customer, I want to be able to create an account so its easier to make and keep track of my orders
~~IMS-12~~	As someone in control of stock, I want to be able to add new items into the database to ensure the inventory is up to date.
~~IMS-13~~	As a customer, I want to be able to view all the items in the system so I can see what I want to order

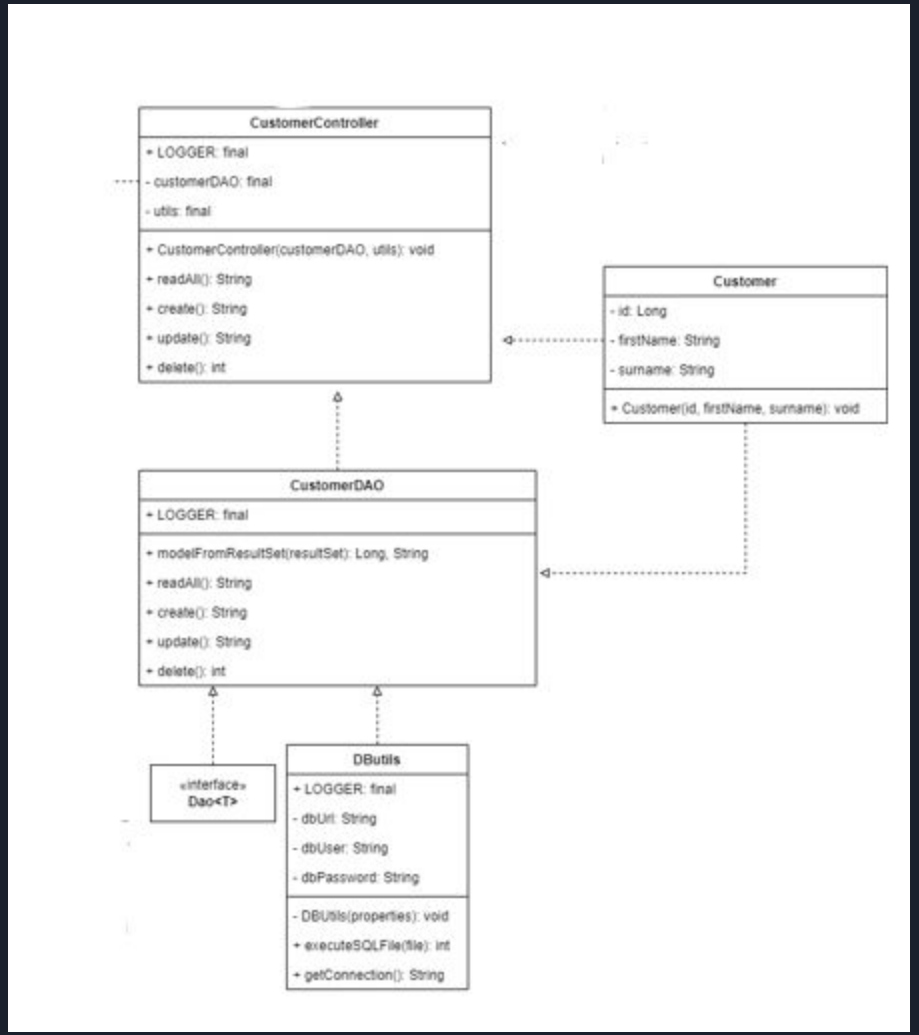
Entity relationship diagram



UML Diagram

- The arrows show where each table implements from
- All tables lead to the ‘CustomerController’ table
- All the tables eventually lead into the ‘IMS’ table and then the ‘runner’ table





Version control - Pulling

```
James@DESKTOP-REBRGDJ MINGW64 ~/git/IMS-project (master)
$ git pull
Merge made by the 'ort' strategy.
 README.md | 7 +++++--
 1 file changed, 5 insertions(+), 2 deletions(-)
```

I made a very simple change to the README file on github and to have that change in eclipse, I opened the gitbash terminal in eclipse and used the ‘git pull’ command to pull the changes from github.

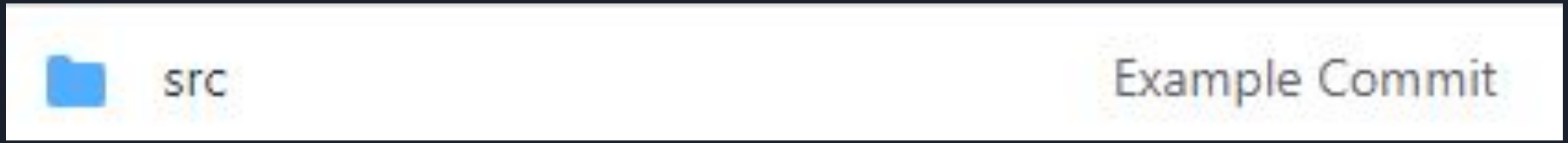
Version Control - pushing

```
James@DESKTOP-REBRGDJ MINGW64 ~/git/IMS-project (master)
$ git push
Enumerating objects: 27, done.
Counting objects: 100% (20/20), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (11/11), 924 bytes | 308.00 KiB/s, done.
Total 11 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 4 local objects.
To https://github.com/James1803/IMS-project.git
   9fe4e5f..2399fff  master -> master
```

To save changes I made in eclipse to github, I used the ‘git push’ command in the gitbash terminal.

Version Control - pushing

- Every time you make a new commit, you need to add a commit message
- This commit informs anyone on the project what change has been made



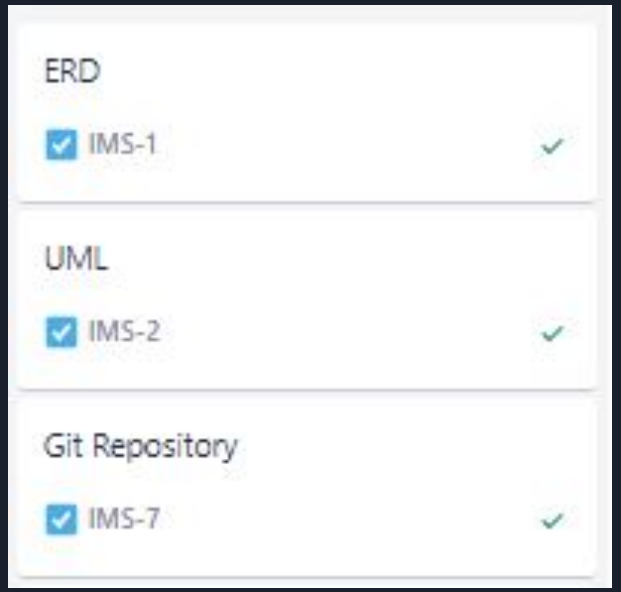
Version Control - comments

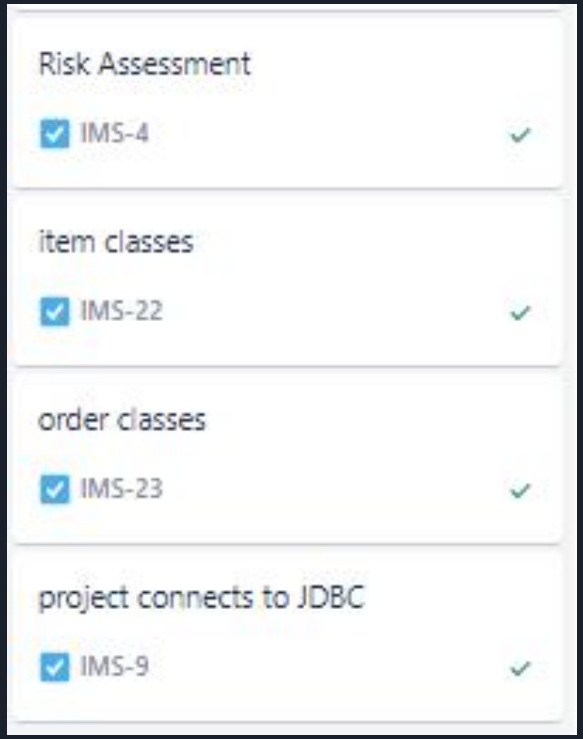
```
//UPDATE
```

```
@Override
public Item update(Item item) {
    try (Connection connection = DBUtils.getInstance().getConnection();
            PreparedStatement statement = connection
                    .prepareStatement("UPDATE items SET first_name = ?, surname = ? WHERE id = ?");) {
        statement.setString(1, item.getItemName());
        statement.setString(2, item.getItemDesc());
        statement.setFloat(3,item.getPrice());
        statement.setLong(4, item.getId());
        statement.executeUpdate();
        return read(item.getId());
    } catch (Exception e) {
        LOGGER.debug(e);
        LOGGER.error(e.getMessage());
    }
    return null;
}
```

Sprint Retrospective - what went well?

Here is a full list all on tasks in the sprint that were completed.



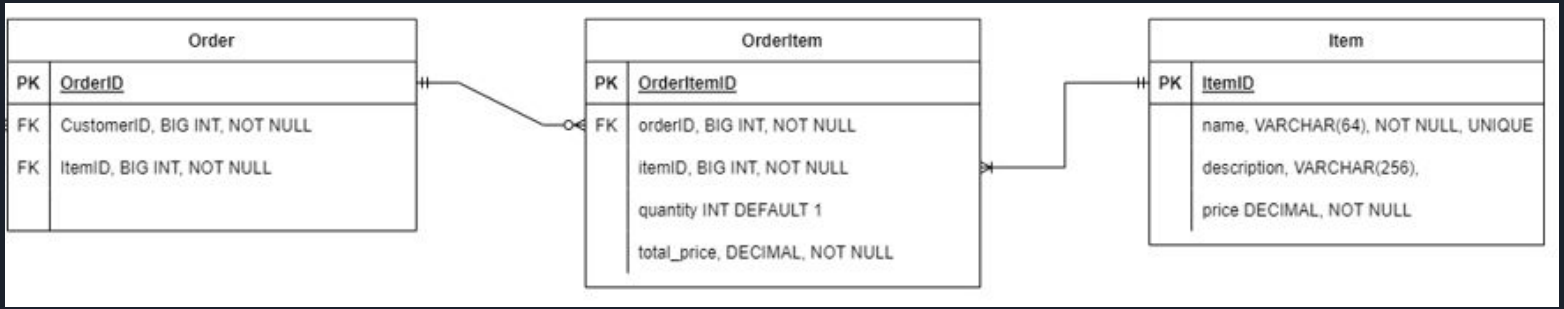


Sprint Retrospective - what could be improved?

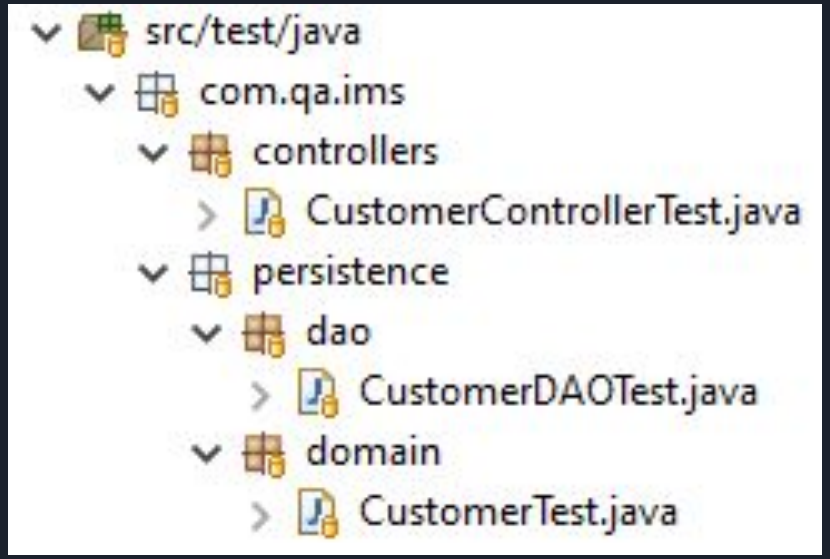
Anything not implemented was at least attempted and would have been implemented if there wasn't a time constraint.

Sprint Retrospective - order_item issue

The ‘order_item’ class was supposed to be the joining class between order and item. However, this could not be implemented in time so a change was made to order. This means the user creates the order without using the items in the inventory.



Sprint Retrospective - testing issue



Testing was not implemented due to a lack of time as well as issues I had with the code.

As we only went through testing briefly, I was unable to implement testing for any item or order classes.

Conclusion:

During my project, Jira, my ERD and my UML diagram was useful in helping me break down the project and understand what I needed. It also helped with time management, however, due to my lack of experience I was unsure of how long certain tasks would take to complete which lead to tasks being left behind. Additionally, the use of pushing to github was helpful as it ensured my code was saved when a new change was made.

Given more time, I would have been able to implement both the ‘item_order’ class as well as testing for all other classes.

Although, I was able to implement a simple solution which allows the user to make an order without connecting to the inventory.

Q&A