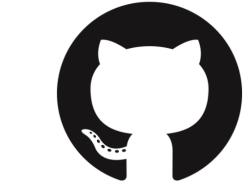
## Inventory Management System

By William Chu

# What technologies have you learned for this project

- Using Git to repo my project
- Jira for creating epics and project management
- Utilising GCP for MYSQL database
- Using JUNIT to test my program
- Using MAVEN to compile and build my code
- Learnt JAVA language

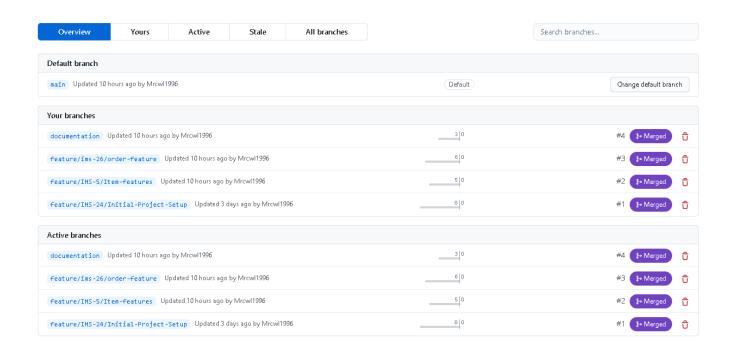








### CI: How did you approach version control?



- Use a descriptive commit message.
- 2. Make each commit a logical unit.
- 3. Don't commit generated files.

### **Demonstration**

#### Customer

#### Which entity would you like to use? CUSTOMER: Information about customers ITEM: Individual Items ORDER: Purchases of items STOP: To close the application What would you like to do with customer: 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 Please enter a first name William Please enter a surname Customer created What would you like to do with customer: 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 id:2 first name:Teej surname:C id:4 first name:William surname:Chu What would you like to do with customer: 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 the id of the customer you would like to delete What would you like to do with customer: 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 id:4 first name:William surname:Chu

#### Item

```
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 Item Name
Please enter a Price
Item created
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
item ID: 1 Item name: ps1 Price: 100.0
item ID: 3 Item name: ps3 Price: 300.0
item ID: 4 Item name: PS5 Price: 500.0
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
DELETE
Please enter the id of the item you would like to delete
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
item ID: 3 Item name: ps3 Price: 300.0
item ID: 4 Item name: PS5 Price: 500.0
```

#### Orders

```
Which entity would you like to use?
CUSTOMER: Information about customers
ITEM: Individual Items
ORDER: Purchases of items
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 a Customer ID
Order created
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
Please enter the id of the order you would like to update
Please enter the id of the customer on the order
please enter ADD or REMOVE
please enter itemID that you would like to update
Order Updated
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
Order ID: 4
Customer ID: 4
Item List:
item ID: 4 Item name: PS5 Price: 500.0
Total Price: 500.0
```

### Sprint review MoSCoW

Must Have	Required Features in the Domain Must be built on Maven tool
Should Have	More Organised Kanban JIRA tool
Could Have	Soft Delete Function in the DATABASE
Will not Have	

### What could be improved?

- I didn't really understand JIRA at first and didn't utilise the full potential of the project management tool.
- More Testing
  - ▶ I found testing quite hard to grasp the concepts
- Next time I will definitely create a Jira board first and update each Story, Epic and task as I work along the project.
- My coding structure was a little bit messy and hard to review
  - ▶ I will use more comments next time to explain my code as I write.

### Reflection

- The code works as I planned it to be and is contains all the functions that are required for the deliverables
- ► The testing was a bit off and didn't meet the standards
  - ▶ I was only able to run test on my controllers
- Should have Utilise the JIRA tool and push my changes daily on Github as I built my program
- Overall I think I could have done a lot better but this was my project and I am glad my code works.

### The End

Any Questions?