INVENTORY MANAGEMENT SYSTEM

LEIGHTON MANNING

INTRODUCTION

- Im Leighton.
- Big focus on the domain. Moved each of the points into its own user story.

CONSULTANT JOURNEY

- Java- Was used for the bulk of my project.
- Git – Was used for version control and keeping my work backed up at all times.
- Mysql+workbench – Was used for the database that is attached to my program. We executed mysql commands using java. GCP.
- JUNIT+Mockito – Was used for testing my project.
- Maven – Was used for adding dependencies and packaging my program up.

CONTINUOUS INTEGRATION

- Git for most of my version control using git bash.
- Using the feature branch model I made a “dev” branch for any changes I made. Made multiple feature branches then merged them back into dev, finally into main.
- Making sure to commit changes at key points in the day.
- Good being able to work freely.

TESTING

- JUNIT TESTING
- Used Mockito on the service classes so that I could fake Functionality.
- Focus point.

ims-demo (2) (21 Jan 2021 15:56:27)

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
ims-demo	84.9 %	4,702	836	5,538
src/main/java	71.8 %	2,030	799	2,829
src/test/java	98.6 %	2,672	37	2,709

```java
@Test
public void updateTest() {
    String id = "1";
    String itemName = "xbox";
    double itemValue = 599.99;
    Mockito.doReturn(id, itemName).when(itemController).getInput();
    Mockito.doReturn(itemValue).when(itemController).getDoubleInput();
    Item item = new Item(1L, itemName, itemValue);
    Mockito.when(itemServices.update(item)).thenReturn(item);
    assertEquals(item, itemController.update());
}

/**
 * Delete doesn't return anything, so we can just verify that it calls the
 * delete method
 */
@Test
public void deleteTest() {
    String id = "1";
    Mockito.doReturn(id).when(itemController).getInput();
    itemController.delete();
    Mockito.verify(itemServices, Mockito.times(1)).delete(1L);
}
```

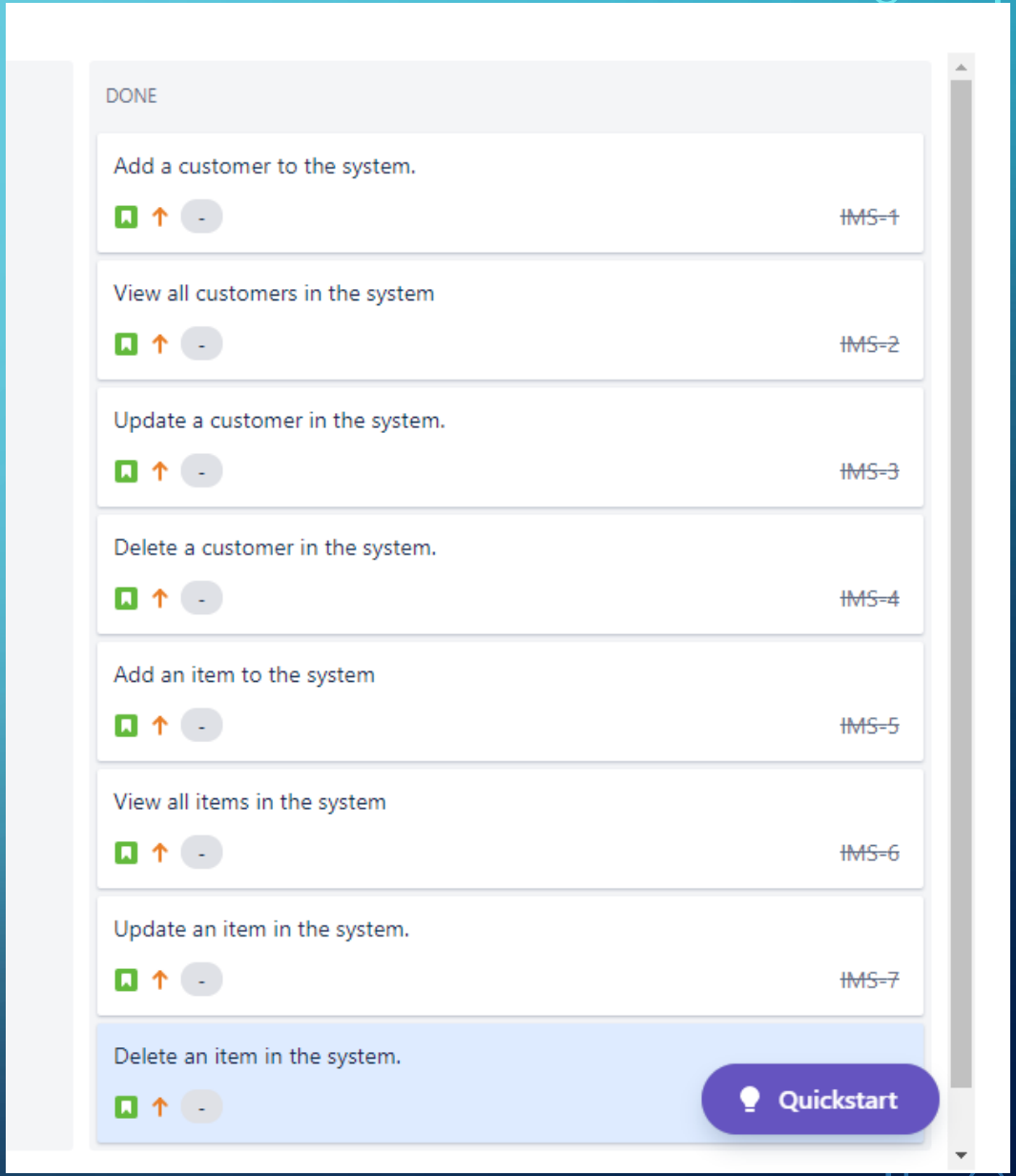
DEMONSTRATION

- I'm going to run through a couple of user stories.

SPRINT REVIEW

- I completed all the user stories I set for the project. Starting with items and customers for the first week. Working on order and the extra 3 features in the next week.

- Was an idea for a stock level system.



SPRINT RETROSPECTIVE

- I think both sprints went well. Due to me completing all the user stories within time. Meaning I had all the features my program MUST have which was my main priority via MoSCoW.

- I underestimated the amount of time some of the final features like adding an item to an order would take.

CONCLUSION

- First project, using technologies I haven't worked with before.
- Future steps would be to keep developing the skills I've learnt whilst working on this project and use them going forward.
- Overall happy with the program.

QUESTIONS

Thanks for listening