IMS Project

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Introduction

- Name : Sam Costello
- Approach : I wanted a fully functioning database that met the spec first, then I could look at different functions and implementations

- I looked at the possibility:
- Admin/viewer pages
- Basket like function

Consultant Journey

- Version Control – Git and Git Hub
- Programme language – Java and MySQL
- Databases – GCP
- Unit testing – JUnit
- JIRA – Kanban board

Continuous Integration

- 5-6 commits a day
- Merge Conflicts
- Feature Branch Model
- Maven Build Tool
- JUnit

Testing

- Using JUnit and Mockito – Domains, Controllers, Services and Dao were all tested
- JUnit – testing individual methods

```
@Before
public void setUp() {
    customer = new Customer(1L, "Chris", "Perrins");
    other = new Customer(1L, "Chris", "Perrins");
}

@Test
public void checkEqualityBetweenDifferentObjects() {
//      assertTrue(customer.equals(other));
    assertEquals(customer, other);
}
@Test
public void otherSurnameDifferent() {
    other.setSurname("thompson");
//      assertFalse(customer.equals(other));
    assertNotEquals(customer, other);
}
```

sam-ims	86.4 %	5,752	906	6,658
src/main/java	73.2 %	2,399	879	3,278
src/test/java	99.2 %	3,353	27	3,380

Testing

- Mockito – Mocks objects in my controller and services tests

```
@Test
public void createTest() {
    String itemName = "carrot cake";
    Double price = 5.00;
    Integer stock = 50;
    Mockito.doReturn(itemName, price.toString(), stock.toString()).when(itemController).getInput();
    Items item = new Items(itemName, price, stock);
    Items savedItem = new Items(1L, "carrot cake", 5.00, 50);
    Mockito.when(itemServices.create(item)).thenReturn(savedItem);
    assertEquals(savedItem, itemController.create());

}
```

Sprint review

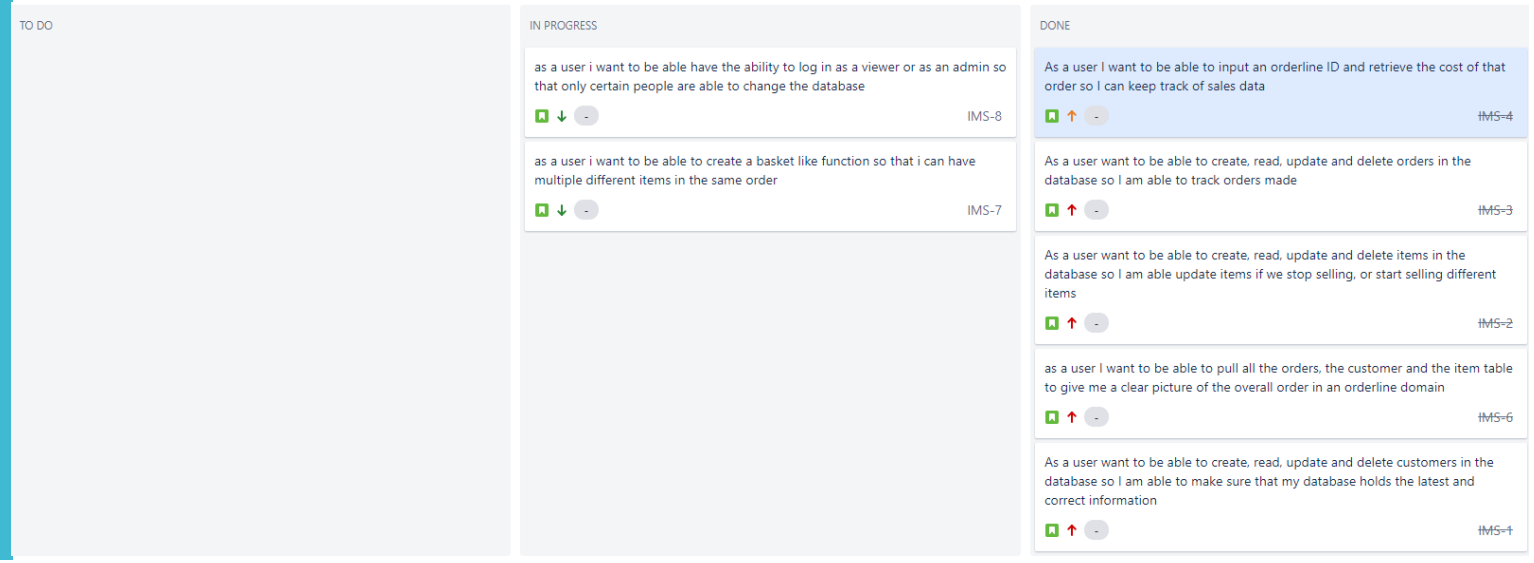
- What was completed?

I managed to complete the main aspects of the design as listed on the MVP

Prioritisation symbolises MoSCoW

- What got left behind?

Log in for admin and viewing were partially complete



Sprint Retrospective

- What went well?

Core concepts

Targets

- What could be improved?

Bulky code

Logging reflections

Demonstration

Conclusion

- I will continue to work on this project to hone the skills I have learned and the skills that I will learn in the future
- This project has allowed me to cement my knowledge - I was very worried as I have not come from a coding background that I would struggle with this, but I have found that implementing what I have learned into a practical environment has been very helpful for me

Questions