# QA Fundamental Project: Inventory Management System (IMS)

By Vaisala Sivanesakumar

#### Introduction

#### Who am I?

- Vaisala Sivanesakumar
- Joined the Software Developer cohort January 2022

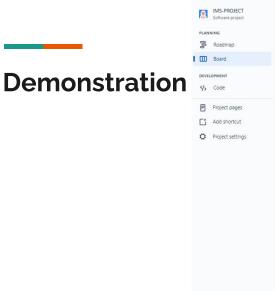
#### How did you approach the specification?

- Agile & Project Management
- Databases
- Programming & Testing Fundamentals
- Continuous Integration & Build Tools

### **Consultant Journey**

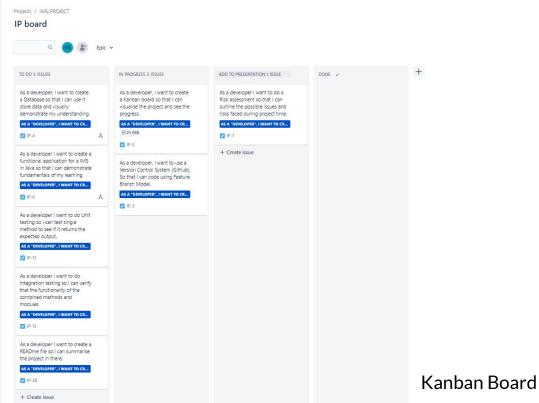
What technologies have you learned for this project?

- Kanban Board: Jira
- Version Control System: Git
- Source Code Management: GitHub
- Relational Database Management System: MySQL Server
- Back-End Programming Language: Java
- **Build Tool**: Maven
- **Unit Testing**: JUnit



You're in a team-managed project

Learn more

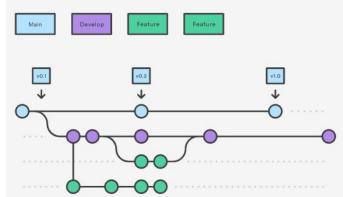


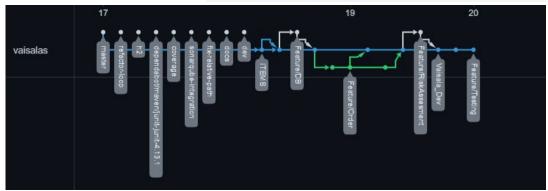


### **Version Control - Git**

How did I approach version Control?

- Master branch
- <My> Dev branch
- Feature branches





#### IMS PROJECT Vaisala Sivanesakumar Customer PK id first\_name surname Order id € FK Customer\_id PK oders\_item PK id FK order\_id FK item\_id

Item

id name price

**ERD** 

## **Testing**

```
@Test
public void testReadAll() {
   List<Item> expected = new ArrayList<>();
   expected.add(new Item(2L, "Rogue Lawyer", 6.99));
   assertEquals(expected, DAO.readAll());
}
```

.For DAO(Data access object) - this tests the ability to connect and function with the database

```
@Test
public void testCreate() {
    final String F_NAME = "barry", L_NAME = "scott";
    final Customer created = new Customer(F_NAME, L_NAME);

    Mockito.when(utils.getString()).thenReturn(F_NAME, L_NAME);
    Mockito.when(dao.create(created)).thenReturn(created);

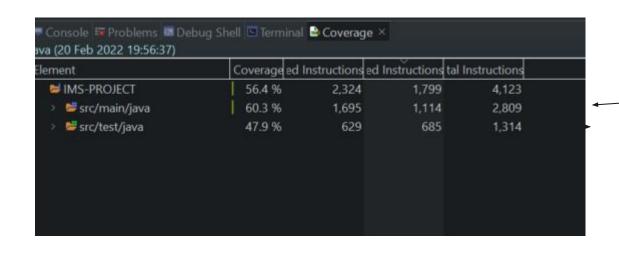
    assertEquals(created, controller.create());

    Mockito.verify(utils, Mockito.times(2)).getString();
    Mockito.verify(dao, Mockito.times(1)).create(created);
}
```

For Controller - this tests the systems front end for the users input.

```
@Test
public void testEquals() {
    EqualsVerifier.simple().forClass(Customer.class).verify();
}
```

For Domain - The test tests the Object itself



Current coverage for src/main/java 60.3%

### **Review**

- Sprint review: What did you complete? What got left behind?
  - Testing Still have to reach the industry standard of 80%
- Sprint retrospective: What went well? What could be improved?
  - The moment up until the coding section went well (Jira,Git,MySQL)

### Conclusion

- **Conclusion:** Reflections on the project, future steps, any other relevant info
  - This Project has allowed to put everything I learnt so far together
  - Future steps First try to debug myself, however if I'm struggling to long it's fine to ask for help.