

Introduction

Must have

- Add, view delete customers
- Add, view, delete items
- Add, view, delete orders
- Calculate cost of an order



Should have

- Update customer, item and order
- Add and remove items from an order

Could have

- View all orders for a specific customer
- View all orders containing a specific item
- View all customers who have ordered a specific item
- Select a database to use



Won't have

- Graphical user interface
- Customize the database schema

Risk assessment

Risks	Risk statement	Response strategy	Objectives	Baseline			2020		
				Likelihood	Impact	Risk	Likelihood	Impact	Risk
Loss of data	Reduce risk	Use of version control so that any mistakes can be reverted, and work can be stored on a remote repository as well as locally.	Ensure that any single hardware failure, or loss of a service, doesn't cause a catastrophic loss of data.	1	5	3	1	3	2
Illness	Accept risk	Take precausions against being infected by disease. Aim to achieve MVP as soon as possible in case time is lost.	Minimize the chance disease affecting ability to deliver project.	2	1	1.5	3	4	3.5
Loss of cloud service	Reduce risk	Have the option to work with either a local MySQL server or a GCP instance.	Allow work on the project to continue even if GCP goes down.	2	4	3	2	1	1.5
Running out of time	Reduce risk	Ensure that I have something that works by the deadline.	Achieve minimum viable product as quickly as possible.	3	5	4	2	5	3.5

Consultant journey

Some familiarity

Version control: Git

Source code

management: GitHub

Database: MySQL

No familiarity

Programming language: Java

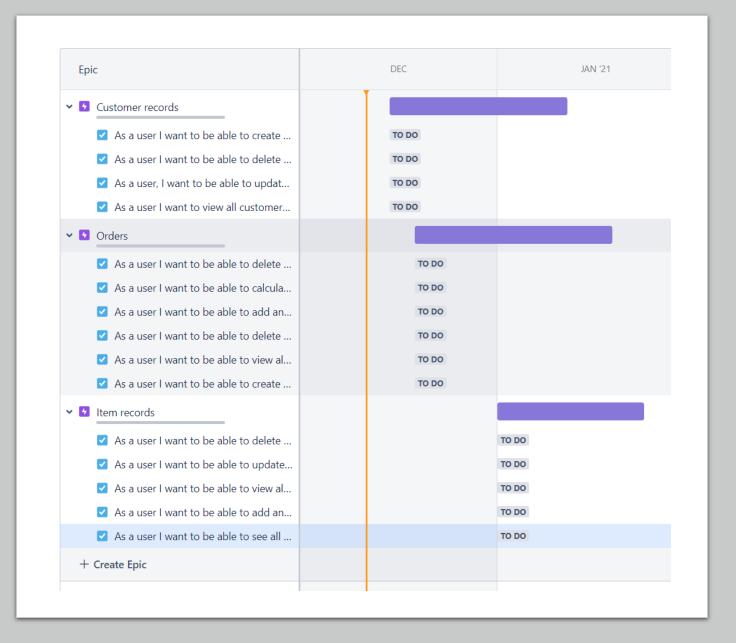
Build tool: Maven

Unit testing: JUnit and Mockito

Kanban board: Jira

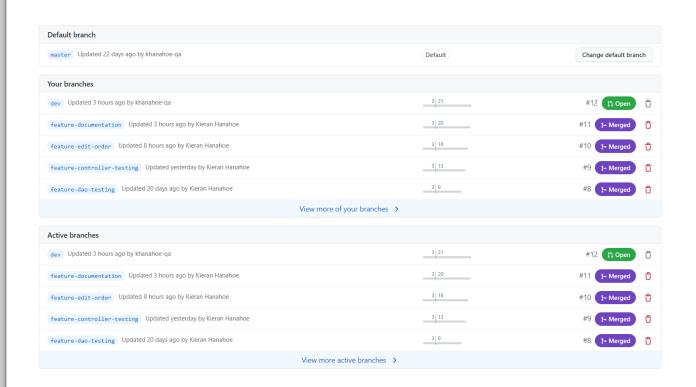
Jira

- User stories initially
- Added tasks later to cover tests etc.
- Didn't use story points

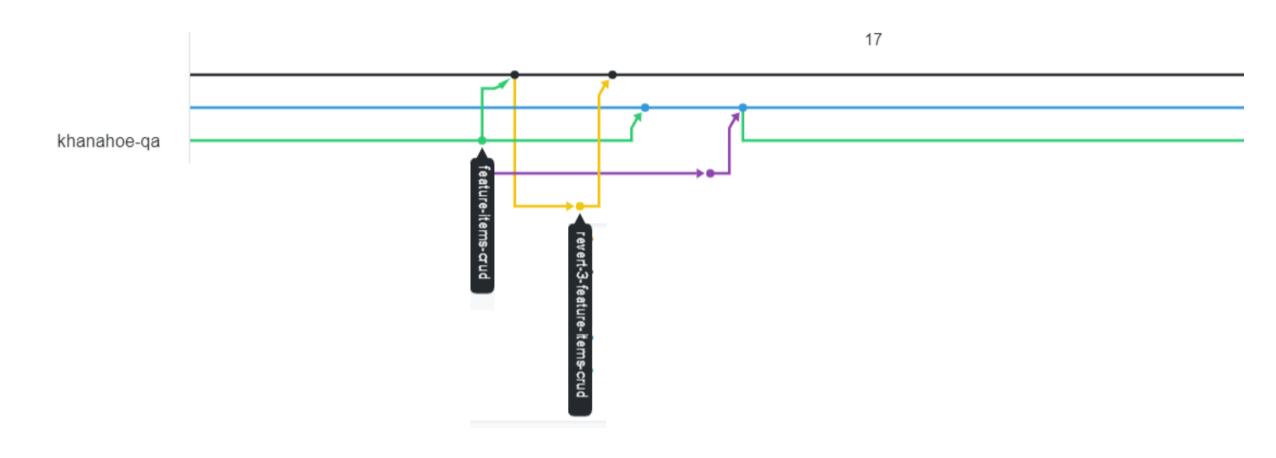


Version control

- Git: feature-branch model
- Working on dev branch
- Had trouble when I tried to merge into master.



Merged feature into master by mistake



Testing

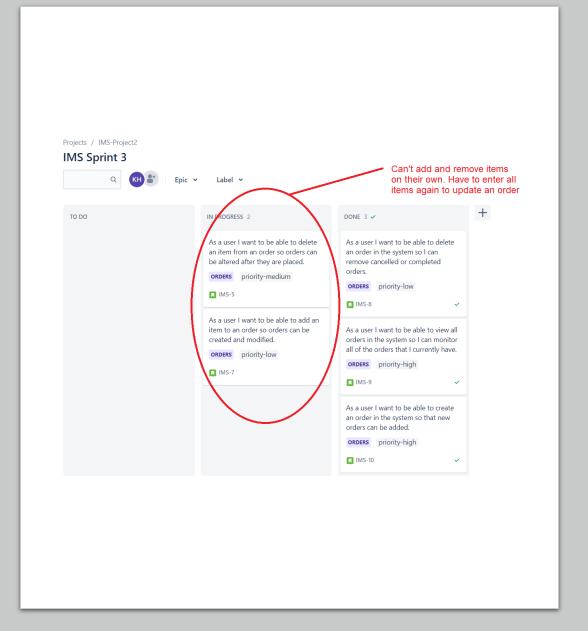
- JUnit and Mockito
- Test coverage 89.8%
- No coverage of Utils because Mockito can't mock scanners





Sprint review

- Most sprints went smoothly
- Sprint 3 had some issues
- I didn't have time to add any could haves



Sprint retrospective



Most of my sprints were effective



Could have planned in more detail



Didn't make use of story points



Left order update until the last minute by mistake

Conclusion

Successes

- Achieved minimum viable product
- Gained a lot of confidence using SQL, Java, Maven, and testing

Areas to improve

- Ideally would have gone slightly beyond MVP
- Could have planned in more detail
- Still having some trouble with version control

Next steps

- Add could haves e.g. show all customers who ordered a specific item
- Add GUI

