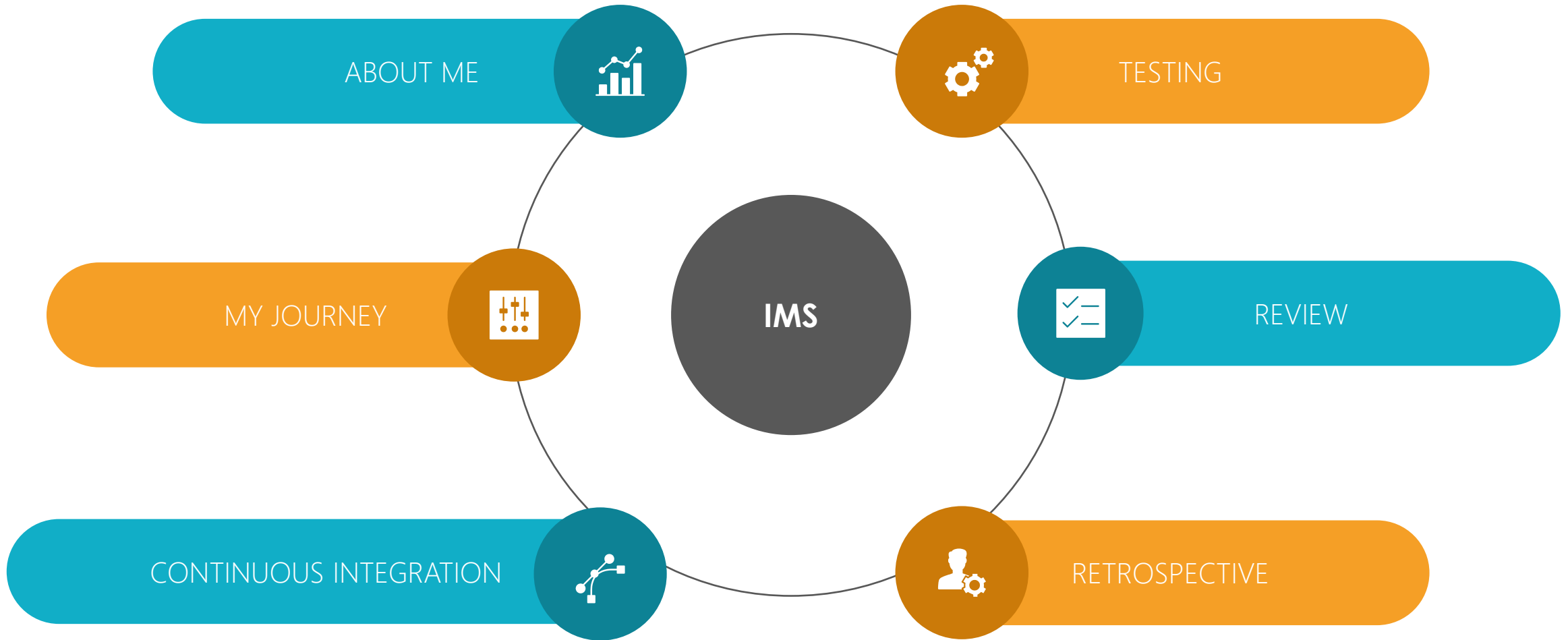


Fundamental Project: Inventory Management System

Usama Mahmood

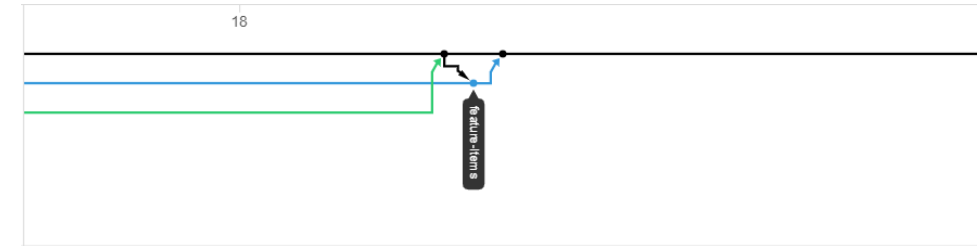
Scope



- BAE Cohort
- Background in Computer Science
- Main area of focus is Machine Learning and Data Science
- Converted specification to bullet points that I would understand
- Read the whole specification at least twice
- Made sure to clarify any ambiguities through trainers

CONTINUOUS INTEGRATION

- Version Control: Github
 - Forked main Repository (Master)
 - Cloned repository to local machine using GitBash
 - Used **feature-<concept>** naming strategy for feature branches
 - Regularly pushed features to github for continuous integration



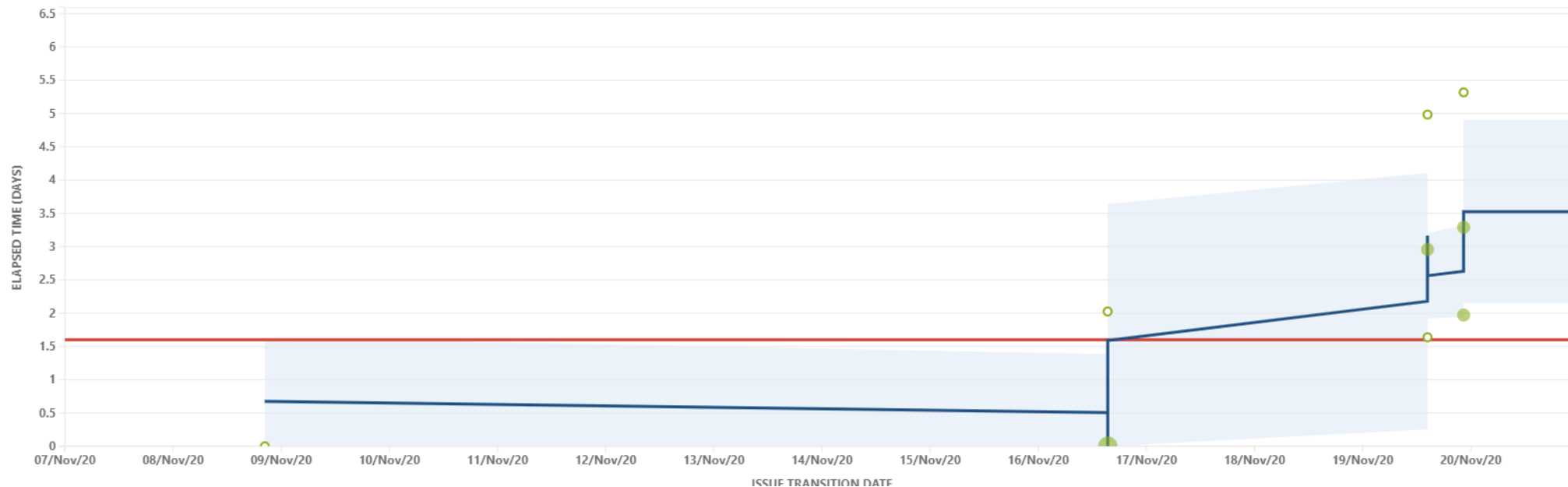
CONTINUOUS INTEGRATION

- Project Management: Kanban Board
 - JIRA
 - Majority of the issues and epics were looked at in bulk over time
 - Could visit the Kanban board more often in the future

07/Nov/20 to 20/Nov/20 (Past 2 Weeks)

1d 14h average 1d 15h median 0 min time 5d 7h max time 19 issues

○ Issue / Average ■ Standard deviation
● Cluster of issues / Rolling average
5 issue window



TESTING

Console Coverage x					
ims (20 Nov 2020 11:57:20)					
Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions	
ims	61.4 %	1,997	1,255	3,252	
src/main/java	49.1 %	1,185	1,228	2,413	
com.qa.ims.persistence.domain	38.7 %	260	411	671	
com.qa.ims.persistence.dao	59.2 %	496	342	838	
OrdersDAO.java	34.1 %	113	218	331	
CustomerDAO.java	75.5 %	191	62	253	
ItemDAO.java	75.6 %	192	62	254	
com.qa.ims.controller	54.2 %	269	227	496	
Action.java	0.0 %	0	119	119	
OrdersController.java	31.2 %	49	108	157	
CustomerController.java	100.0 %	110	0	110	
ItemController.java	100.0 %	110	0	110	
com.qa.ims	0.0 %	0	171	171	
com.qa.ims.utils	67.5 %	160	77	237	
src/test/java	96.8 %	812	27	839	
com.qa.ims.persistence.dao	91.6 %	295	27	322	
OrdersDAOTest.java	70.3 %	64	27	91	
CustomerDAOTest.java	100.0 %	113	0	113	
ItemDAOTest.java	100.0 %	118	0	118	
com.qa.ims.controllers	100.0 %	517	0	517	
CustomerControllerTest.java	100.0 %	206	0	206	
ItemControllerTest.java	100.0 %	227	0	227	
OrdersControllerTest.java	100.0 %	84	0	84	

Ims

61.4%

Src/main/java

49.1%

Src/test/java

96.8%

REVIEW

- For the project, CRUD (Create, Read, Update , and Delete) functionality for Customer, Items and Order was to be implemented
- All CRUD functionality for Customer and Items was successfully implemented
- For Orders, the Update functionality was not in the scope so it is left out
- For Orders, the total price for the order is uncomplete, lack of experience and knowledge contributed to this

RETROSPECTIVE

What went well

- Time was managed
- Resources were managed well
- Communication with trainers was well established

What could be improved

- Spend more time understanding the code provided
- Lack of knowledge and experience slowed down progress and often halted it
- Better understanding of OOP
- Better coding principles

CONCLUSION

- Overall for a first time project and the time frame given, the project was fairly successful, although with more time it could have been improved
- Learned a lot of new technologies and brushed up on previous knowledge
- In the future, I would start the project a bit earlier and learn theory as well

Thank You

Any Questions?