INVENTORY MANAGEMENT PROJECT

BY: ERMIAS TSEGE

OUTLINE

- Introduction
- Consultant Journey
- Project management board
- Coding
- Testing
- Sprint review

INTRODUCTION

Objective

To develop inventory management java application

Inventory Management List				Actions(CRUD)			
Customer Table	Item Table	Order Table	Order Line Table	Read	Create	Update	Delete

CONSULTANT JOURNEY

- Project Management tool (Jira)
- Version Controlling (Git)
- Database (MySQL)
- Programing (JAVA)
- Testing (Junit and Mockito)
- Project automating and build tool(MAVEN, jar)

PROJECT MANAGEMENT BOARD

EPIC Develop Inventory Management Software

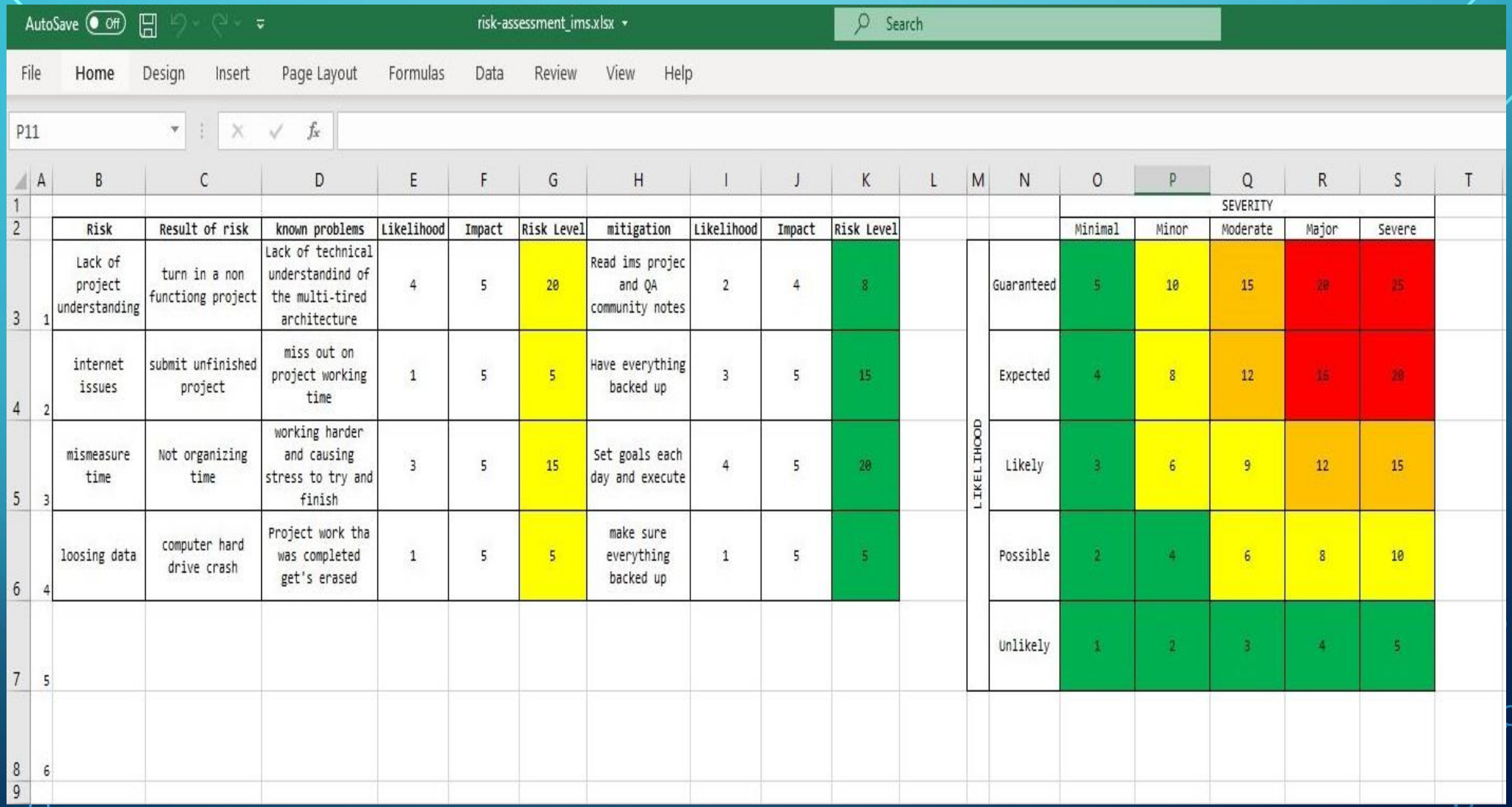
Stories

- CRUD Operations on Customers Table

Tasks

1. create a table for customer table
2. design and develop the code to connect with the data base

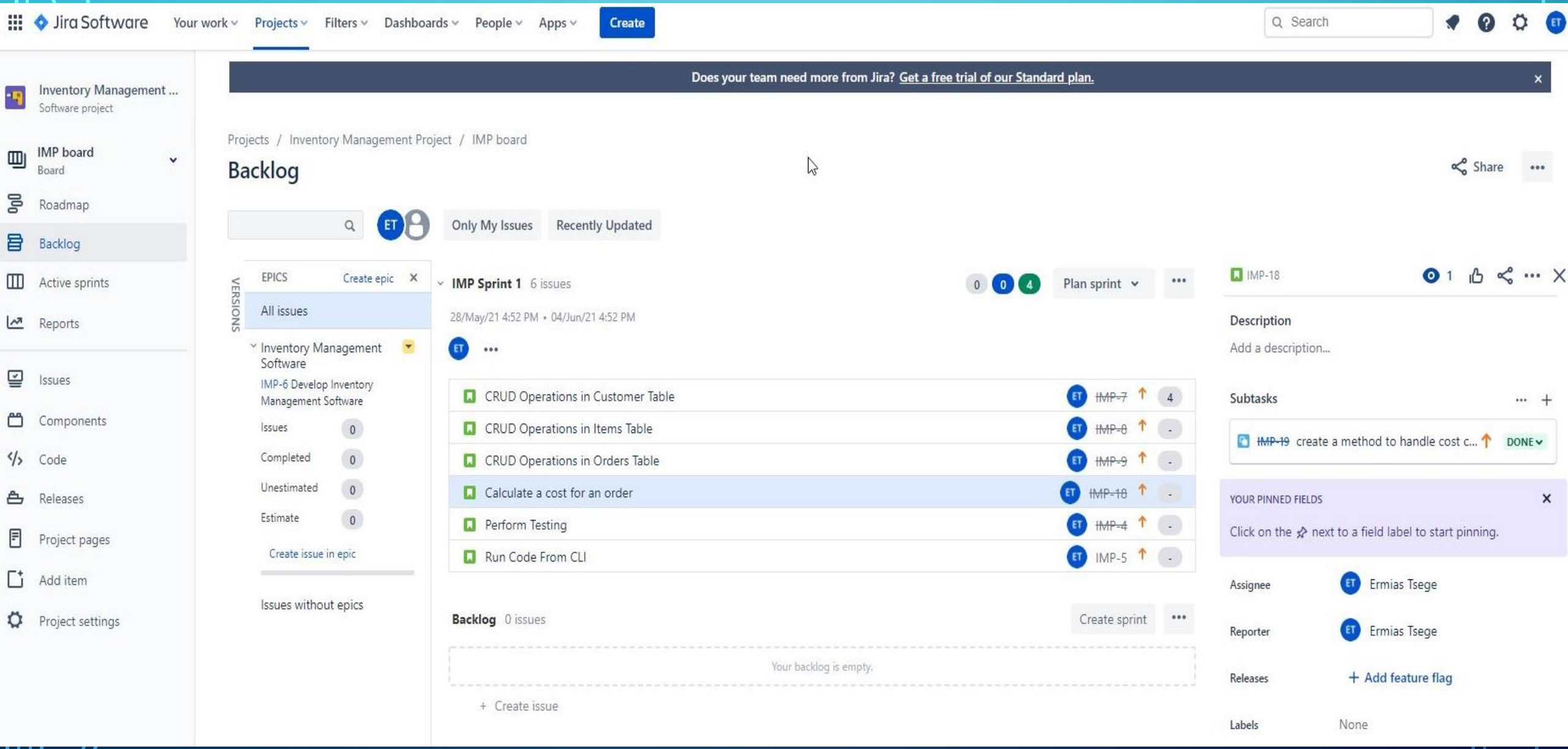
- CRUD Operations on Items Table
- CRUD Operations on orders Table
- CRUD Operations on orderline Table
- Calculate a total cost for an order
- Conduct testing
- Run Code From CLI

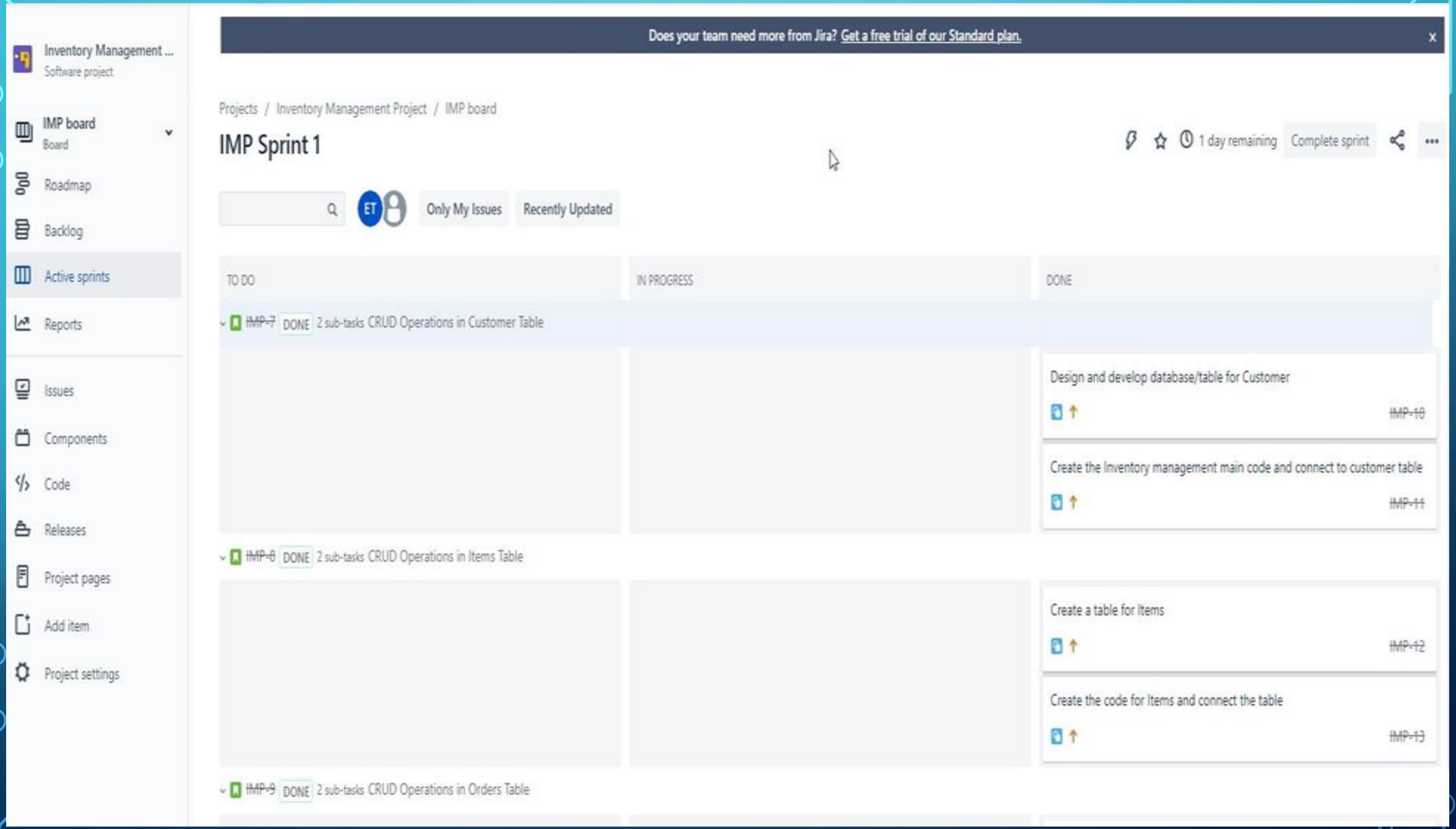


	Risk	Result of risk	known problems	Likelihood	Impact	Risk Level	mitigation	Likelihood	Impact	Risk Level
1	Lack of project understanding	turn in a non functiong project	Lack of technical understandind of the multi-tired architecture	4	5	20	Read ims projec and QA community notes	2	4	8
2	internet issues	submit unfinished project	miss out on project working time	1	5	5	Have everything backed up	3	5	15
3	mismeasure time	Not organizing time	working harder and causing stress to try and finish	3	5	15	Set goals each day and execute	4	5	20
4	loosing data	computer hard drive crash	Project work tha was completed get's erased	1	5	5	make sure everything backed up	1	5	5
5										
6										

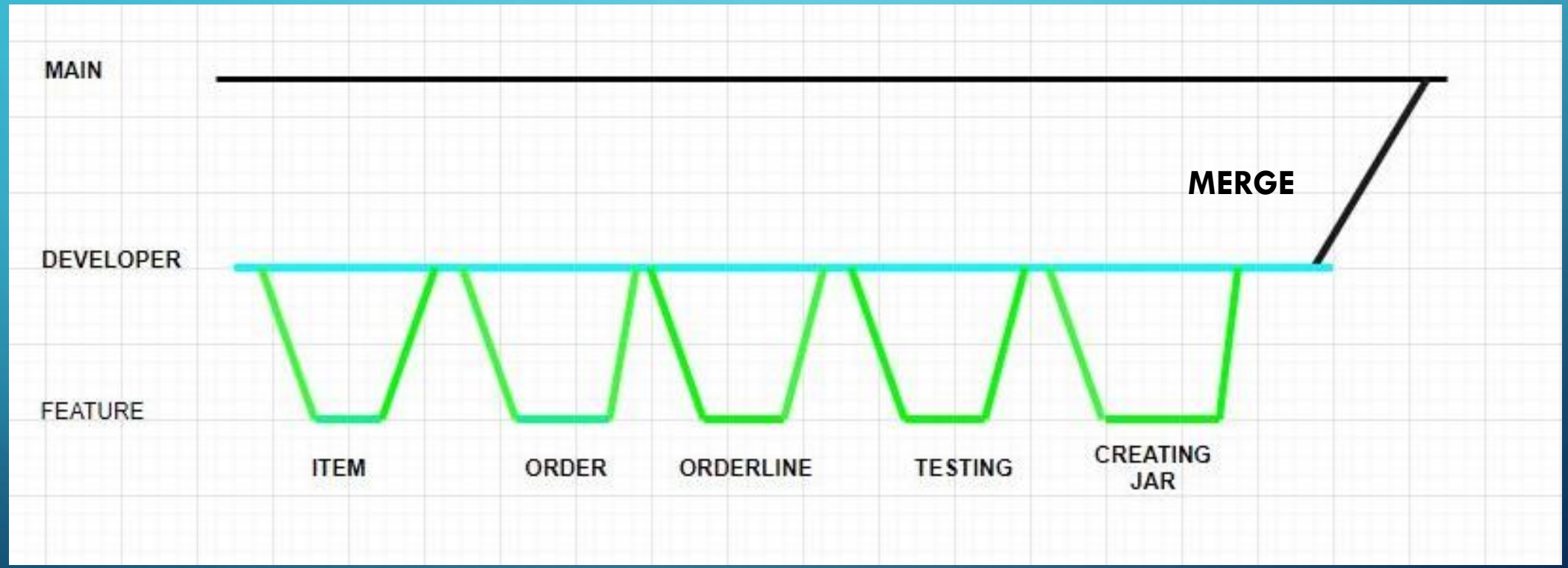
LIKELIHOOD	SEVERITY					
		Minimal	Minor	Moderate	Major	Severe
	Guaranteed	5	10	15	20	25
	Expected	4	8	12	16	20
	Likely	3	6	9	12	15
	Possible	2	4	6	8	10
	Unlikely	1	2	3	4	5

CONT…


Jira Software
Your work
Projects
Filters
Dashboards
People
Apps
Create
Search
Inventory Management ...
Software project
IMP board
Board
Roadmap
Backlog
Active sprints
Reports
Issues
Components
Code
Releases
Project pages
Add item
Project settings
Does your team need more from Jira? Get a free trial of our Standard plan.
Projects / Inventory Management Project / IMP board
Backlog
Share
Only My Issues
Recently Updated
EPICS
Create epic
All issues
Inventory Management Software
IMP-6 Develop Inventory Management Software
Issues 0
Completed 0
Unestimated 0
Estimate 0
Create issue in epic
Issues without epics
IMP Sprint 1 6 issues
28/May/21 4:52 PM • 04/Jun/21 4:52 PM
Plan sprint
CRUD Operations in Customer Table IMP-7 4
CRUD Operations in Items Table IMP-8
CRUD Operations in Orders Table IMP-9
Calculate a cost for an order IMP-10
Perform Testing IMP-4
Run Code From CLI IMP-5
Backlog 0 issues
Create sprint
Your backlog is empty.
Create issue
IMP-18
Description
Add a description...
Subtasks
IMP-19 create a method to handle cost c... DONE
YOUR PINNED FIELDS
Click on the next to a field label to start pinning.
Assignee Ermias Tsege
Reporter Ermias Tsege
Releases Add feature flag
Labels None

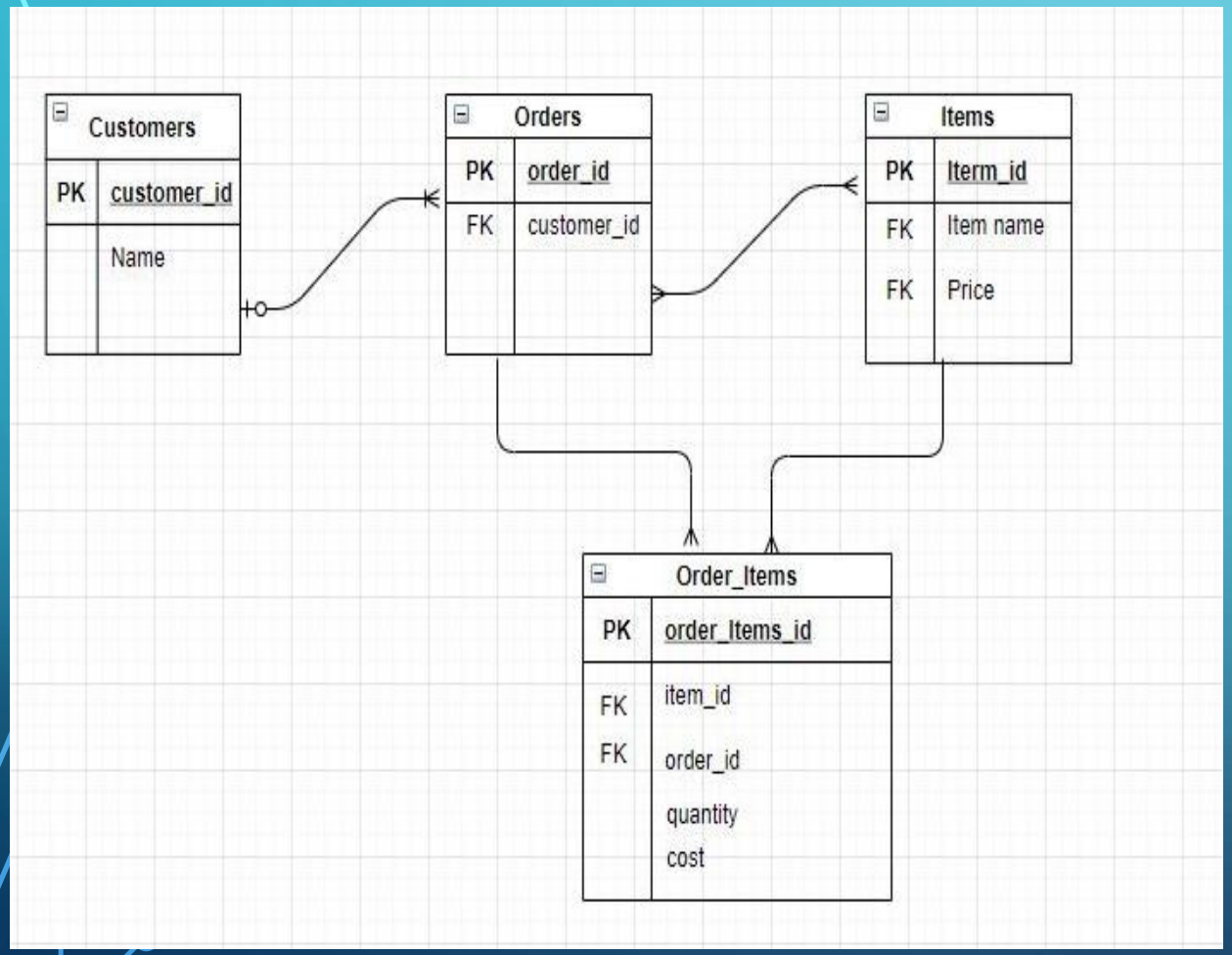

Inventory Management ...
Software project
IMP board
Board
Roadmap
Backlog
Active sprints
Reports
Issues
Components
Code
Releases
Project pages
Add item
Project settings
Does your team need more from Jira? Get a free trial of our Standard plan.
Projects / Inventory Management Project / IMP board
IMP Sprint 1
1 day remaining
Complete sprint
Only My Issues
Recently Updated
TO DO
IN PROGRESS
DONE
IMP-7 DONE 2 sub-tasks CRUD Operations in Customer Table
Design and develop database/table for Customer
IMP-10
Create the Inventory management main code and connect to customer table
IMP-11
IMP-8 DONE 2 sub-tasks CRUD Operations in Items Table
Create a table for Items
IMP-12
Create the code for Items and connect the table
IMP-13
IMP-9 DONE 2 sub-tasks CRUD Operations in Orders Table

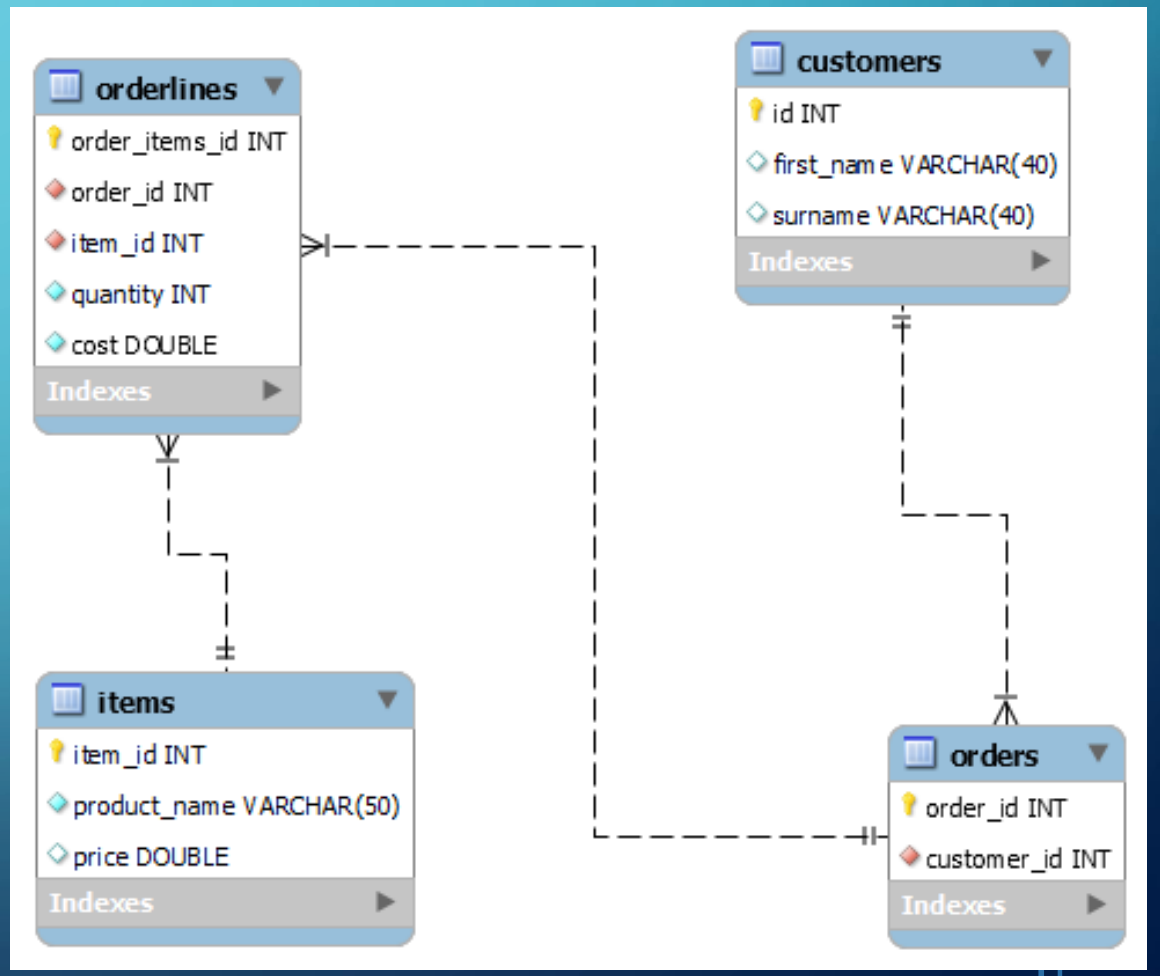
VERSION CONTROLLING USING GIT



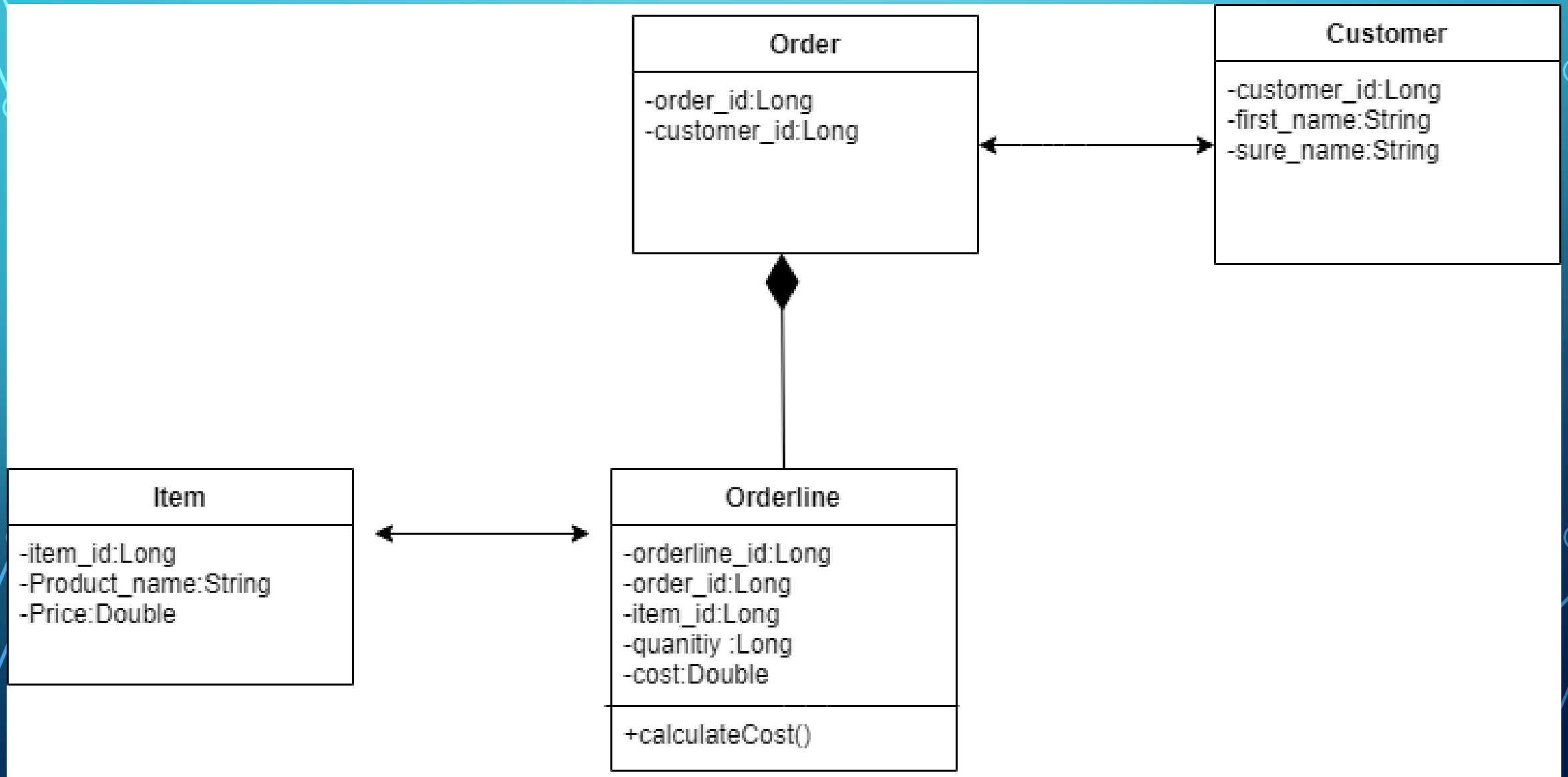
DATABASE

Entity Relationship Diagram (ERD))Diagram



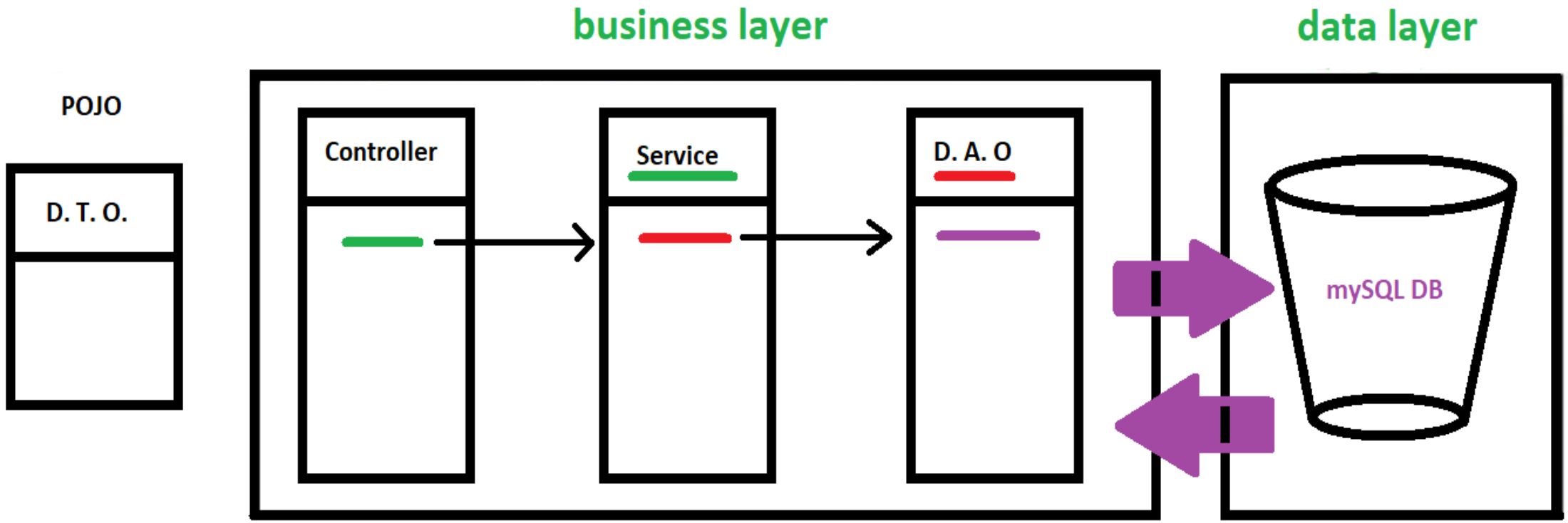


Unified Model Language (UML) Diagram

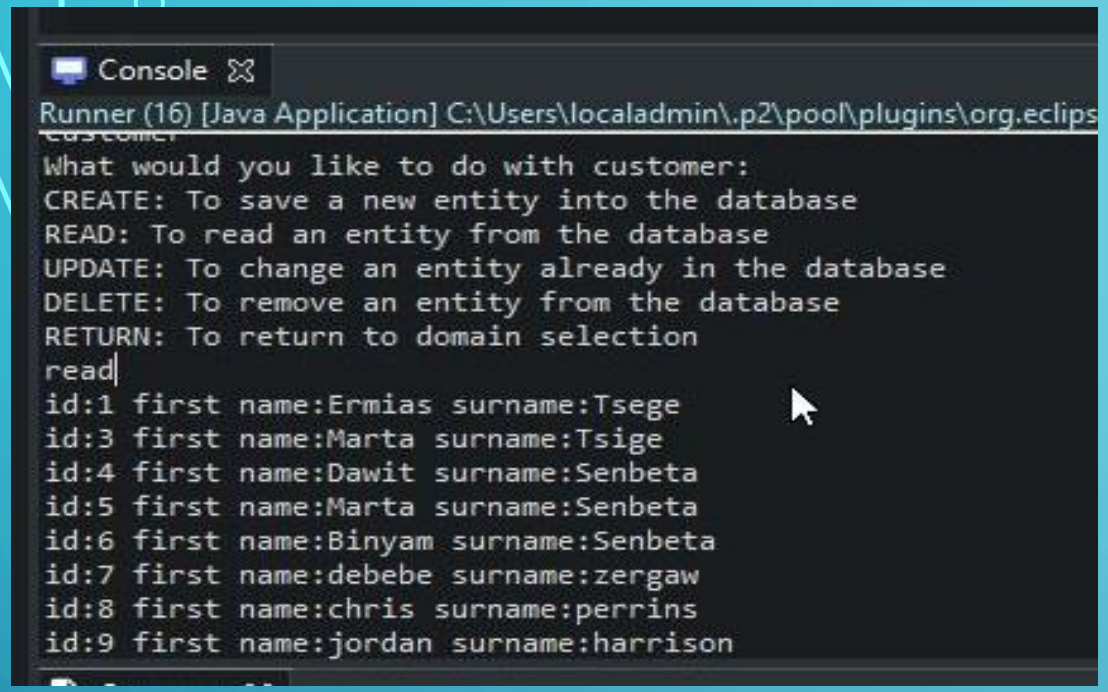


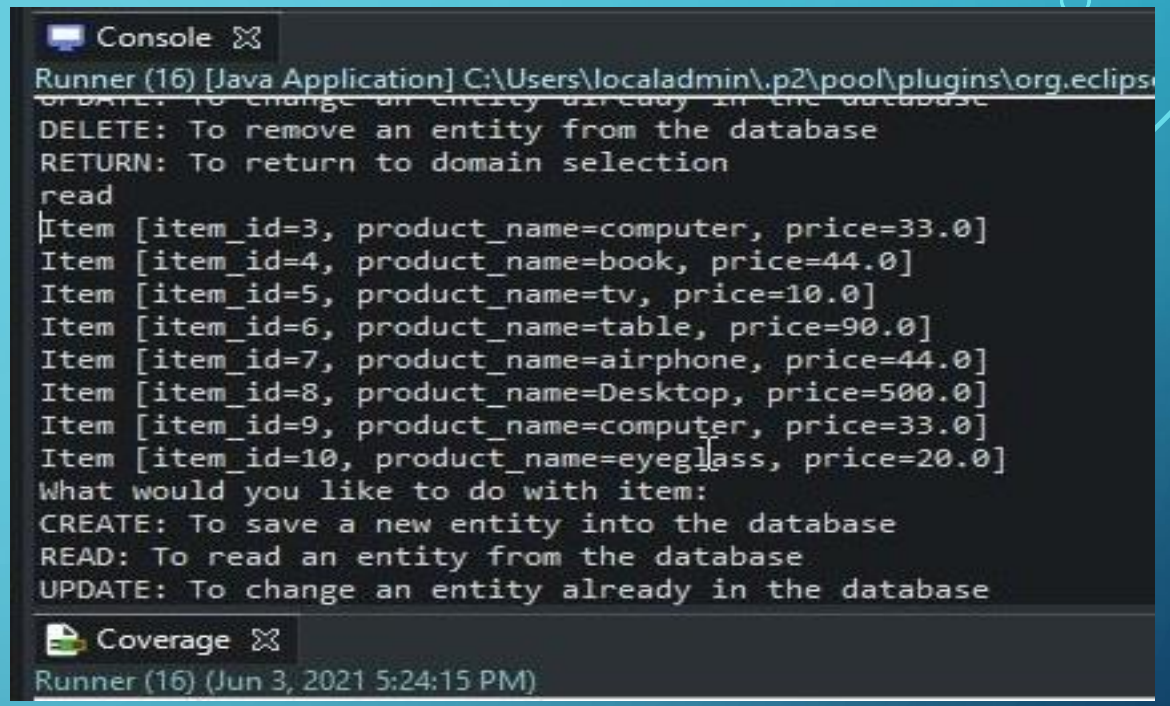
JAVA Coding

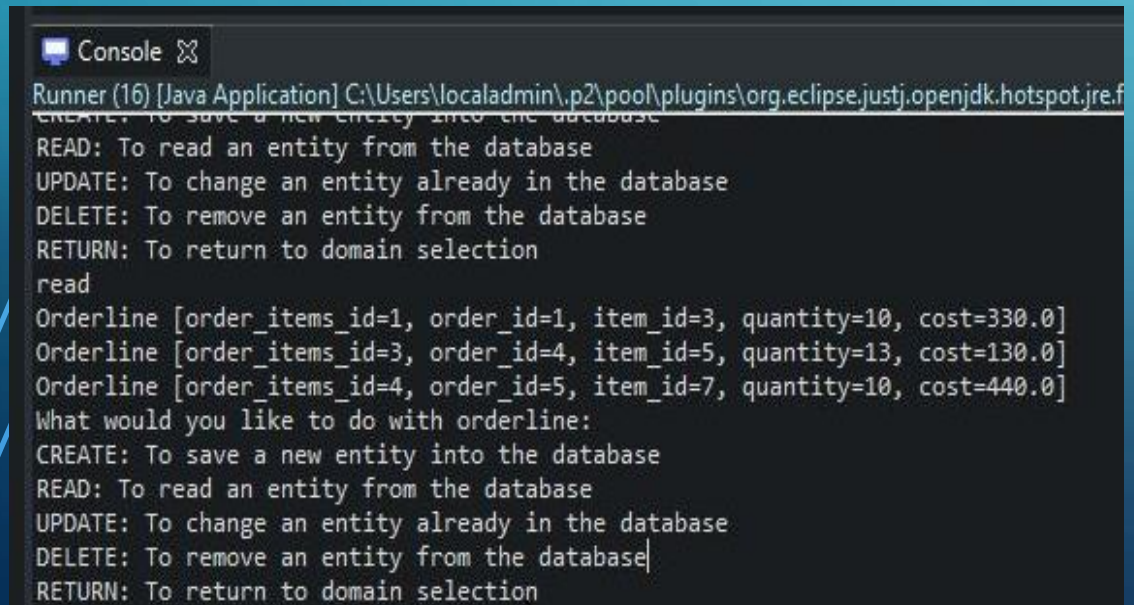
multi-tiered architecture

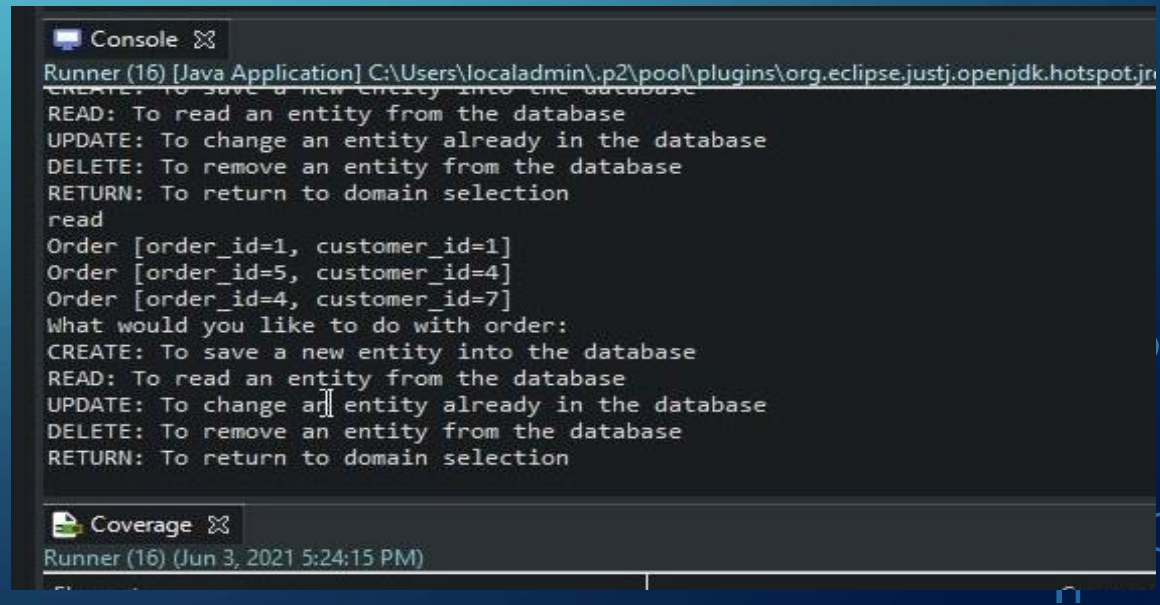


CRUD Operation on ims Database Using JAVA





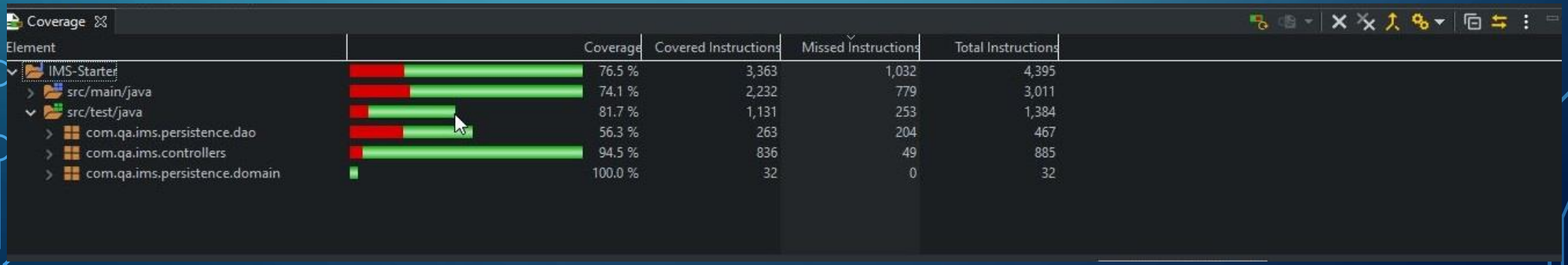




UNIT TESTING

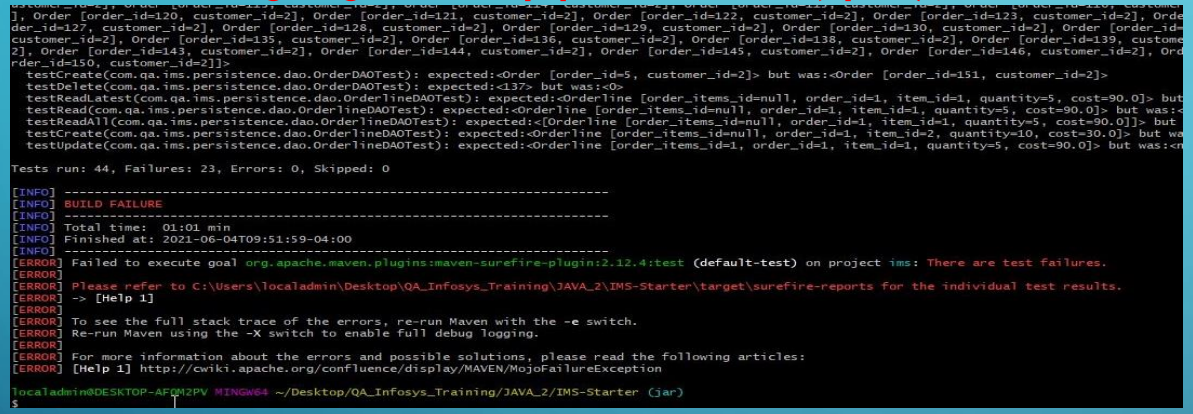
- 1) **Junit testing** applied to test the controller class in the business logic part "assertEqual" method from unit testing was applied to test the validity of each method in the control classes.
- 2) **Mockito testing framework was applied to test the DAO part of the business logic code.**

This testing method was used to test all the methods inside the DAO using the dummy object concept provided by Mockito unit testing Framework.

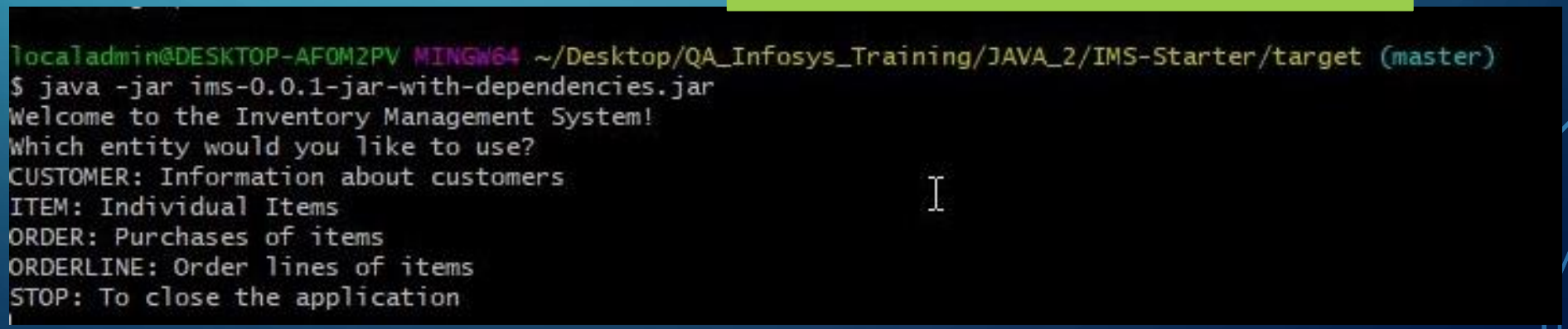


SPRINT REVIEW

- CRUD Operations in customers, Items, orders and orderline tables was successfully performed.
- The code has a 77% testing pass.
- Packaging ims Applications (.jar)



Packaging ims Applications (.jar) Success!



THANK YOU