

# TODO PROJECT

MALIK ALI

# INTRODUCTION

- BSc in Computer Science from Keele
- Direct approach to specification, reading and planning based on MVP

# CONCEPT

- Read the specification thoroughly and understand the MVP
- Create a mock backend to see the functionality interactions
- Plan out the front end by drawing wireframes
- Plan out the interactions using the wireframes

# SPRINT PLAN

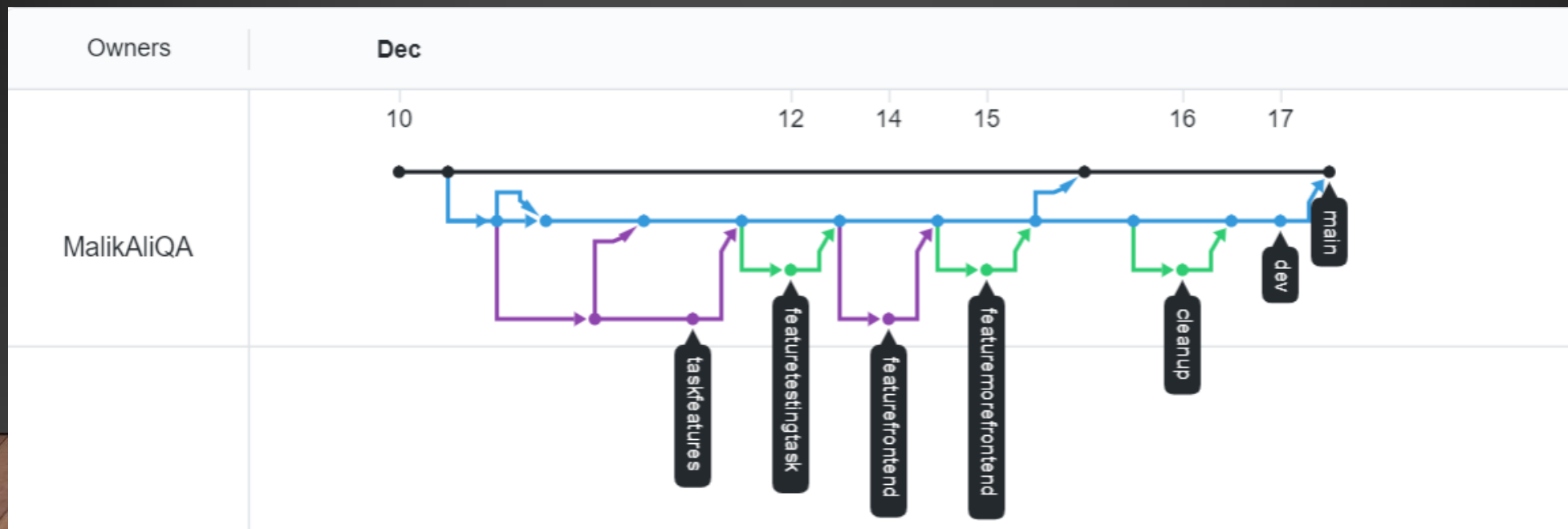
- Full CRUD functionality and a usable front end were the main goal
- Further would be allowing the user to do more functionality such as add an image
- Hoped to achieved a User friendly front end with full CRUD functionality that was bug free

# CONSULTANT JOURNEY

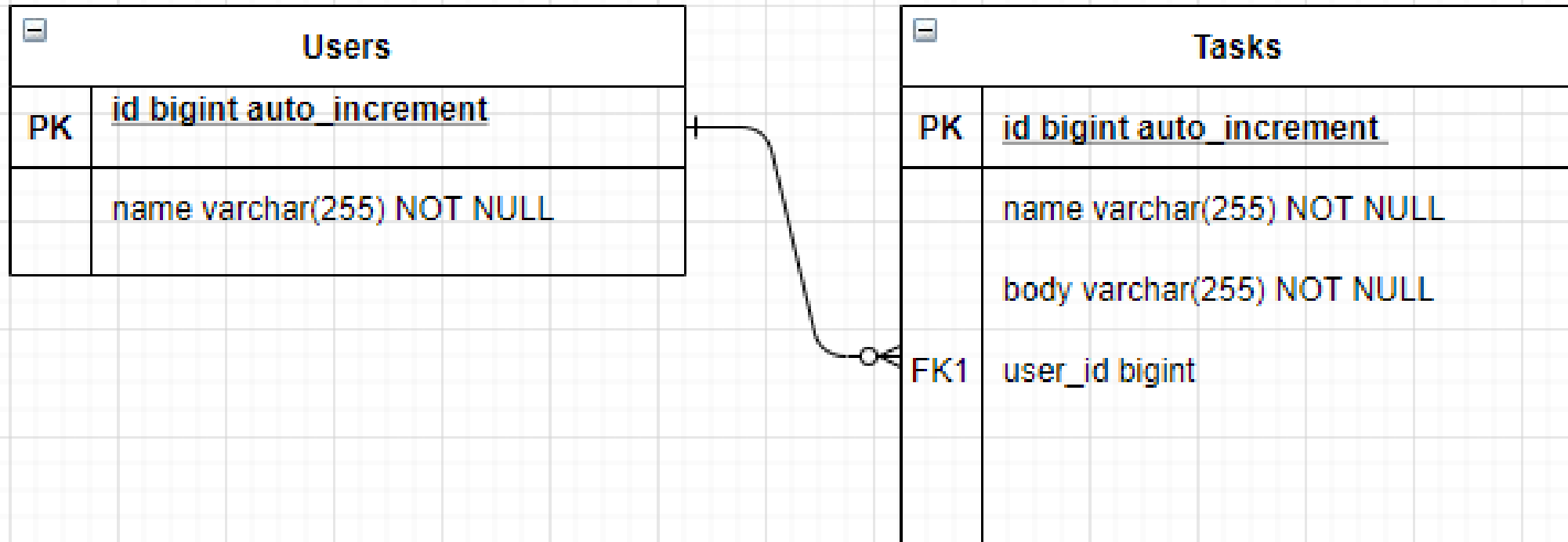
- New technologies learnt during this project:
- SpringBoot
- Selenium
- Front End, CSS, HTML, Javascript, JSON
- Postman
- Swagger.io
- SonarCube

# CI

- Version control using git and GitHub and to ensure a secure pipeline the dev<feature> branch model was applied where there were branches off the dev branch adding features and merging back into dev and once everything is functionally only then merging with the main branch



# ERD





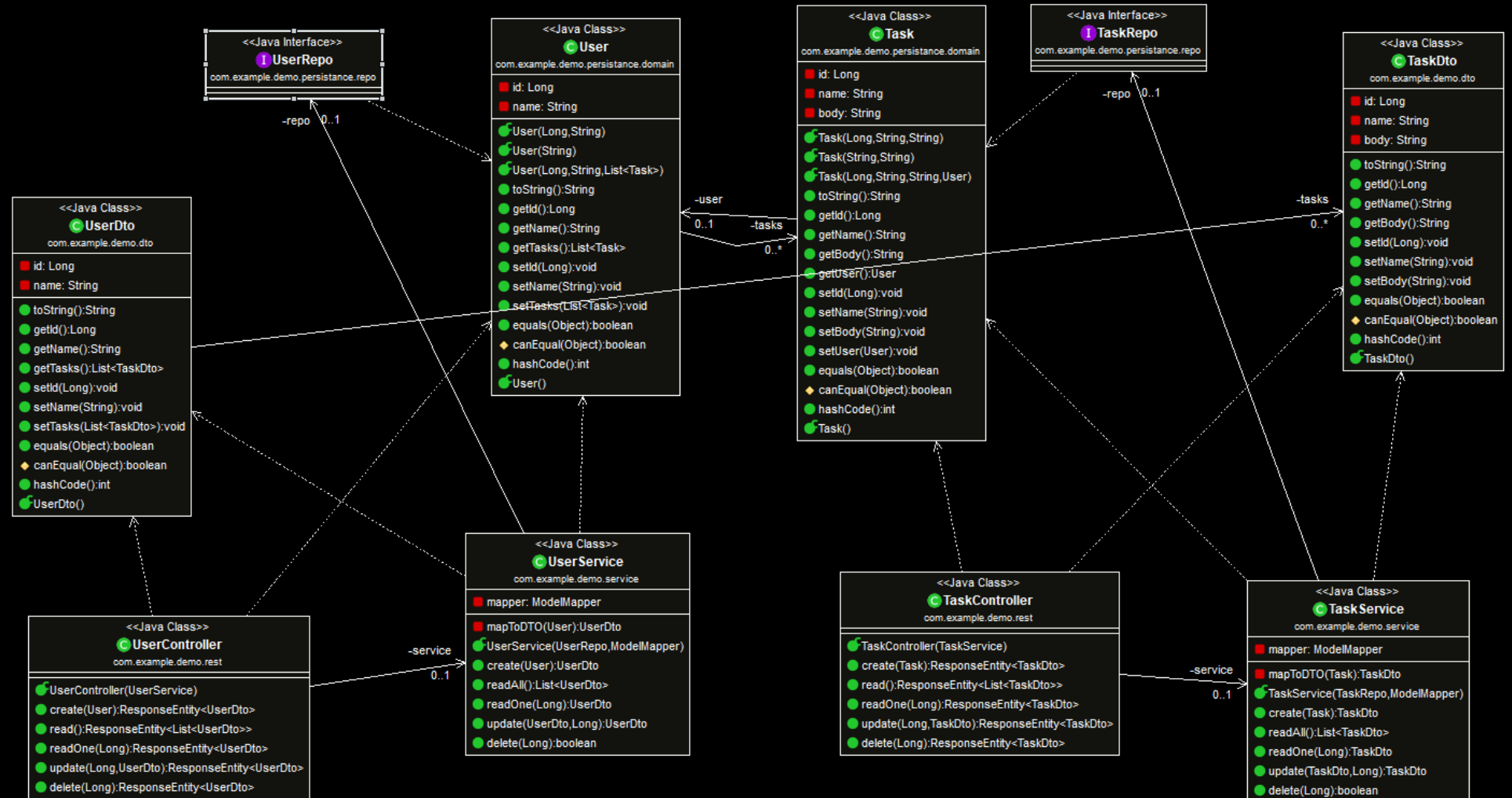
# UML

Multiplicity:

0..\* Zero or More



















1..\* One or More

0..1 Zero or One






# BACKEND TESTING

Problems Javadoc Declaration Console Coverage				
Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
▼  TodoProject	 95.5 %	2,956	139	3,095
>  src/test/java	 99.7 %	2,016	7	2,023
▼  src/main/java	 87.7 %	940	132	1,072
>  com.example.demo.config	100.0 %	7	0	7
>  com.example.demo.rest	 100.0 %	106	0	106
>  com.example.demo.service	 100.0 %	158	0	158
>  com.example.demo.util	 94.2 %	49	3	52
>  com.example.demo.dto	 87.2 %	286	42	328
>  com.example.demo.persistence.domain	 80.1 %	331	82	413
>  com.example.demo	37.5 %	3	5	8

# FRONT END TESTING

- This was done in Eclipse with selenium, testing all front end functionality. Screenshots in <https://github.com/MalikAliQA/ToDoSeleniumTesting/tree/main/src/test/resources/reports>
- File for each page and each screenshot in sequence to show how its being tested






# FRONT END TESTING



ExtentReports

Automation Report

TESTS











ToDo project Testing Pass

2020-12-17 15:00:44

2020-12-17 15:01:04

0h 0m 19s+649ms



STATUS	TIMESTAMP	DETAILS
✓	15:00:51	Success read all task
✓	15:00:52	Success read all users
✓	15:00:53	Success update task
✓	15:00:56	Success created task
✓	15:00:58	Success updated user
✓	15:01:00	Success create a users
✓	15:01:01	Success deleted task
✓	15:01:02	Success deleted user

# SONARCUBE

TodoProject

master

December 16, 2020, 12:50 PM

Version 0.0.1-SNAPSHOT

🏠

Overview

Issues

Security Hotspots

Measures

Code

Activity

Project Settings

Project Information

QUALITY GATE STATUS

MEASURES

Passed

All conditions passed.

New Code

Overall Code

0

Bugs

Reliability

A

2

Vulnerabilities

Security

C

2

Security Hotspots

0.0%

Reviewed

Security Review

E

2h 54min

Debt

34

Code Smells

Maintainability

A

0.0%

Coverage on 92 Lines to cover

57

Unit Tests

0.0%

Duplications on 435 Lines

0

Duplicated Blocks

ACTIVITY

Issues

December 16, 2020, 12:50 PM

0.0.1-SNAPSHOT

TodoProject

master

December 16, 2020, 1:35 PM

Version 0.0.1-SNAPSHOT

🏠

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Bugs

Reliability

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2

Vulnerabilities

Security

B

2

Security Hotspots

0.0%

Reviewed

Security Review

E

1h 39min

Debt

22

Code Smells

Maintainability

A

0.0%

Coverage on 92 Lines to cover

57

Unit Tests

0.0%

Duplications on 435 Lines

0

Duplicated Blocks

ACTIVITY

Issues

December 16, 2020, 1:35 PM

0.0.1-SNAPSHOT

DEMO

# SPRINT REVIEW

- All user stories were completed

TO DO	IN PROGRESS	DONE
<div>the user must be able to link tasks to users using the Users ID 🟢 ⬆️ 6 TOD-9</div> <div>the user must be able to delete a user which will then delete the corresponding tasks that the user has too 🟢 ⬆️ 8 TOD-10</div>	<div>the user must be able to create a new user for the system with a name 🟢 ⬆️ 2 TOD-5</div> <div>the user must be able to read all the users that are created 🟢 ⬆️ 1 TOD-6</div> <div>the user must be update the name of a user in the system 🟢 ⬆️ 4 TOD-7</div> <div>the user must be able to delete a user in the system 🟢 ⬆️ 1 TOD-8</div>	<div>the user must be able to add a task to the webpage with a name and body to the task 🟢 ⬆️ 2 TOD=1</div> <div>the user must be able to read all the tasks that are already in created 🟢 ⬆️ 1 TOD=2</div> <div>the user must be able to update the name and body of a task 🟢 ⬆️ 4 TOD=3</div> <div>the user must be able to delete a task 🟢 ⬆️ 1 TOD=4</div>



# SPRINT RETROSPECTIVE

- Time management was really good
- Full CRUD functionality

## **IMPROVEMENTS:**

- Add a drop down for User ID
- Implement a way to display users even without any tasks in the system
- Alerts and auto refreshes when a user clicks a button

# CONCLUSION

- Built on everything we learnt from the last project
- Made a front end and learnt new technologies
- Managed to fix the one and only bug that I had with my last project in this project
- Work more with front end