

# TDL PROJECT

By Marco Castellana

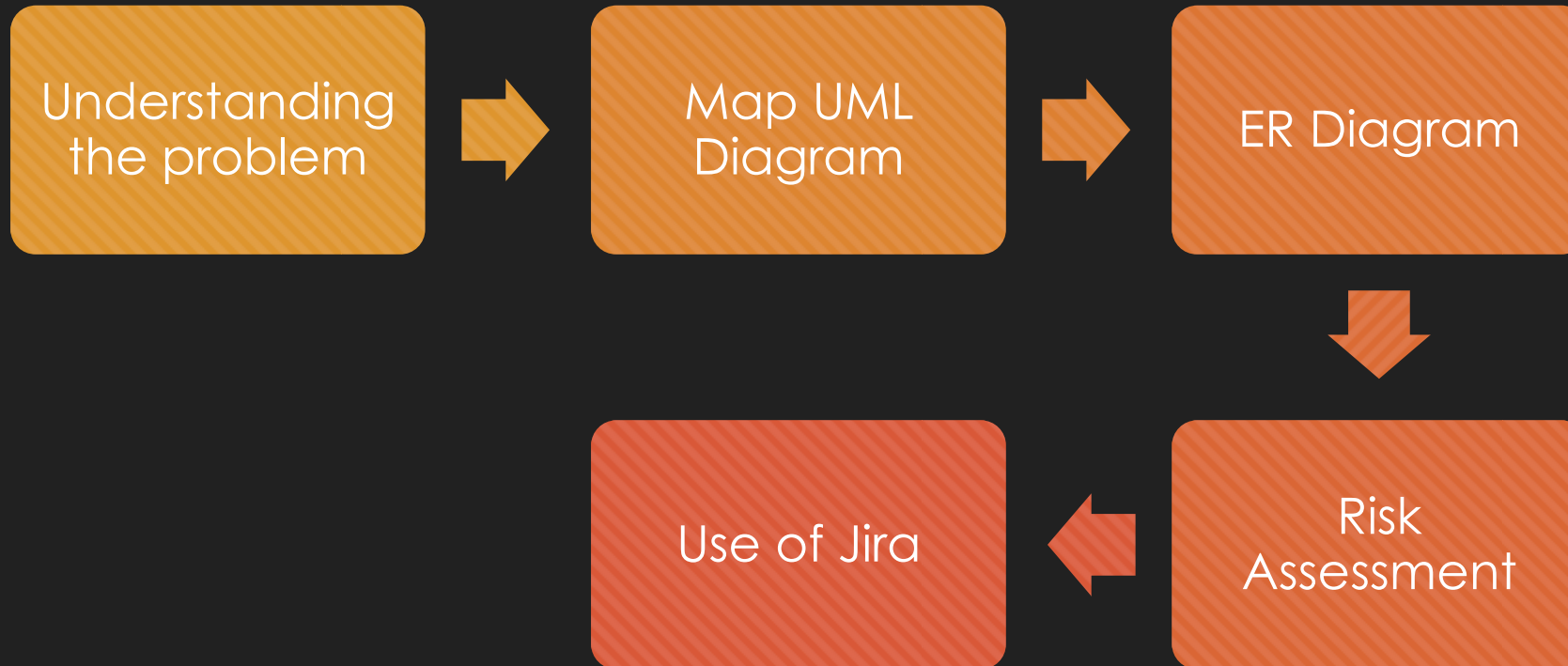
# TOPICS

- Technologies used
- Set up
- My approach to GIT
- Development
- Testing phase
- SonarQube
- Sprint review
- Sprint retrospective

# Technologies Used

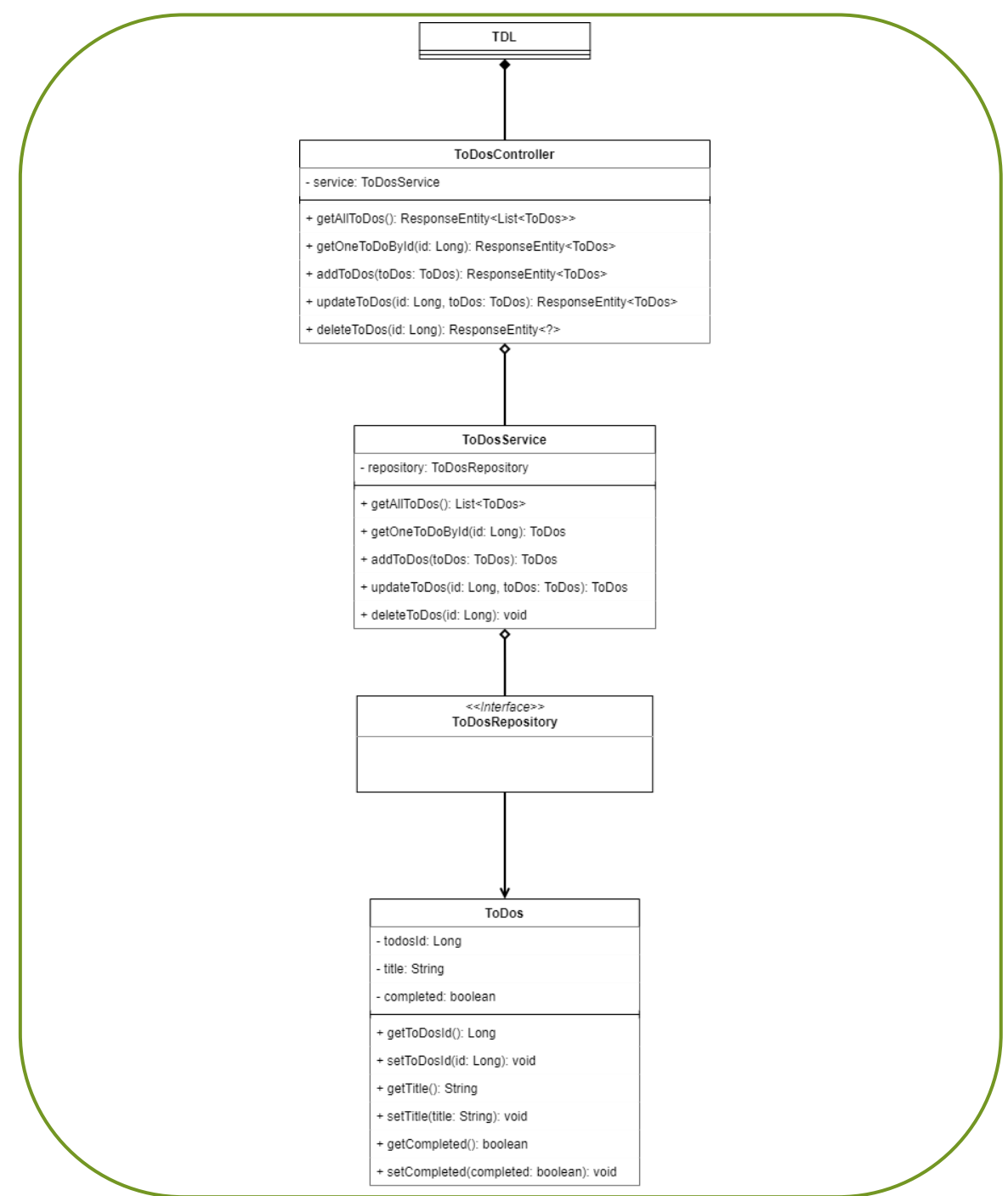
GIT	GitHub	Jira	MySQL	Java
HTML5, CSS, JS	Spring Boot	Maven	Junit	Selenium
	SonarQube	Eclipse IDE	Visual Studio Code	

# Set up

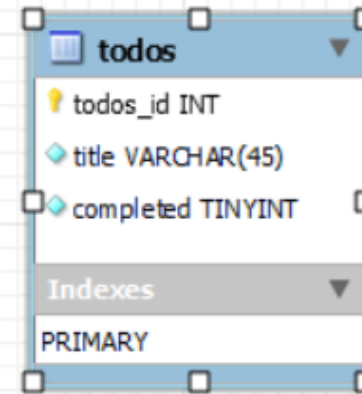


# UML

- Controller
- Service
- Repository
- Model



# ER Diagram



# Jira and the Kanban Board

## TDL Sprint 1

Q MC + Epic ▾ Label ▾

### TO DO 19 ISSUES

As a developer I need to have a risk assessment, so that I know what risks can be encountered

PLANNING planning

TDL-7 1 MC

As a developer, I want to be able to look at the UML diagram, so that I can understand the whole structure of the application to be built.

PLANNING planning

TDL-9 2 MC

As a presenter, I need to have a presentation with slides, so that I can follow a guideline when presenting the project.

PRESENTATION presentation

TDL-10 2 MC

As a person, I need to know how to use and test the application, so that I know how to use and test the application.

PRESENTATION documentation

TDL-11 2 MC

As a developer, I need to test the front-end application, so

### IN PROGRESS 1 ISSUE

As a developer, I want to be able to look at the ERD model, so that I can understand the structure of the database to be built.

PLANNING planning

TDL-8 1 MC

### DONE ✓

Front-end part / TDL-41

As a user, I need to add a todo to a list, so that I can keep track of the things that need to be done.

Attach

Add a child issue

Link issue

Description

Add a description...

Activity

Show: 

All

Comments

History

Newest first

MC

Add a comment...

Pro tip: press **M** to comment

Done

✓ Done

Details

Priority

High

Assignee

MC

Marco Castellana

Labels

frontend

Sprint

TDL Sprint 1

Story point estimate

2

Development

1 branch

1 commit

1 pull request

yesterday

MERGED

Reporter

MC

Marco Castellana

Created 2 days ago

Updated yesterday

Resolved yesterday

Configure

# User Stories



Front-end part / TDL-25

As a user, I need to look at the logo, so that I can understand what the website is all about

Attach Add a child issue Link issue

Description

Add a description...

Activity

Show: All Comments History

Newest first

MC

Add a comment...

Pro tip: press M to comment

1

Done

Done

Details

Priority Medium

Assignee MC Marco Castellana

Labels frontend

Sprint TDL Sprint 1

Story point estimate 1

Reporter MC Marco Castellana

Created 3 days ago

Updated 3 days ago

Resolved 3 days ago

Configure

# User Stories

Presentation / TDL-10

As a presenter, I need to have a presentation with slides, so that I can follow a guideline when presenting the project.

Attach

Add a child issue

Link issue

Description

·

**Introduction:** Who are you? How did you approach the specification?

·

**Concept:** How did you initially approach the problem?

·

**Sprint plan:** What needed to be included? What did you hope to achieve?

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**Consultant Journey:** What technologies have you learned for the project?

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**CI:** How did you approach version control?

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**Testing:** Coverage, static analysis, red-green-refactor

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**Demonstration:** Run through a couple of user stories

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**Sprint review:** What did you complete? What got left behind?

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**Sprint retrospective:** What went well? What could be improved?

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**Conclusion:** Reflections on the project, future steps, any other relevant info

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**Questions:** Leave 5 minutes for questions at the end of the presentation

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Diagrams and/or screenshots used where appropriate

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Your presentation should last a total of **15 minutes**

In Progress

Details

Priority

High

Assignee

MC

Marco Castellana

Labels

presentation

Sprint

TDL Sprint 1

Story point estimate

2

Reporter

MC

Marco Castellana

Created 3 days ago

Updated 13 hours ago

Configure

# User Stories

# My Approach to GIT

- Use of GIT and GitHub
- Use of branches to create features
- Use of Commits
- Merge to main when final product is stable and ready



# Development

- SQL Development
- Front-End
- Back-End

# Testing

- Unit
- Integration
- Selenium
- SonarQube

Coverage

tdl-project (4 Aug 2021 22:43:54)

Element	Coverage	Instructions	Instructions	Instructions
tdl-project	98.7 %	1,323	17	1,340
src/main/java	91.7 %	187	17	204
src/test/java	100.0 %	1,136	0	1,136
com.qa.tdlproject.controllers	100.0 %	197	0	197
com.qa.tdlproject.selenium.pages	100.0 %	143	0	143
com.qa.tdlproject.selenium.tests	100.0 %	507	0	507
com.qa.tdlproject.services	100.0 %	289	0	289

Package Explorer JUnit

Finished after 34.831 seconds

Runs: 29/29 Errors: 0 Failures: 0

ToDoControllerIntegrationTest [Runner: JUnit 5] (0.827 s)
testListOneToDo() (0.422 s)
testUpdateToDo() (0.297 s)
testListAllToDos() (0.048 s)
testCreateToDo() (0.026 s)
testDeleteToDo() (0.030 s)
ToDoServiceUnitTest [Runner: JUnit 5] (0.160 s)
testUpdateToDo() (0.121 s)
testListAllToDos() (0.020 s)
testGetOneToDoById() (0.005 s)
testCreateUnit() (0.003 s)
testDeleteToDo() (0.007 s)
ToDoServiceFailUnitTest [Runner: JUnit 5] (0.015 s)
testUpdateToDo() (0.006 s)
testGetOneToDoById() (0.004 s)
testDeleteToDo() (0.004 s)
ToDoListTest [Runner: JUnit 5] (16.183 s)
HomeTest [Runner: JUnit 5] (8.944 s)

# Testing


- Service tested with Unit tests (Mockito)
- Controller tested with Integration tests
- Front-end tested with Selenium
- Code quality and smells with SonarQube











# Selenium Tests


Package Explorer JUnit







Finished after 32.197 seconds

Runs: 16/16      ✖ Errors: 0      ✖ Failures: 0

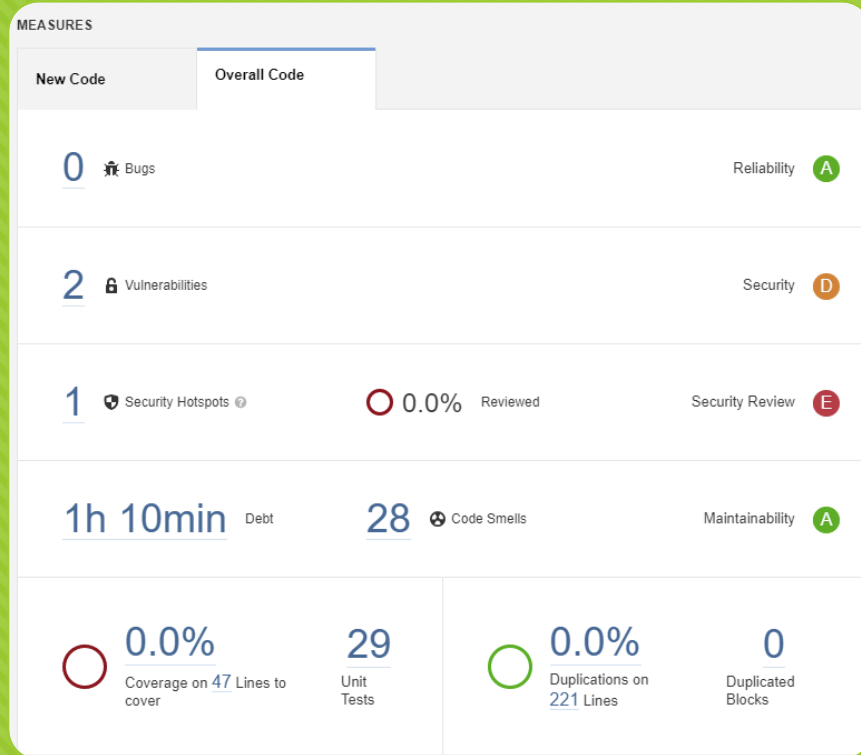
▼  ToDoListTest [Runner: JUnit 5] (17.138 s)

-  testLogoLink() (2.554 s)
-  testUpdateToDo() (1.921 s)
-  testGetOneToDo() (1.720 s)
-  testGetAllToDo() (1.515 s)
-  testOpeningPage() (1.460 s)
-  testLogoImg() (1.460 s)
-  testCreateToDo() (1.822 s)
-  testDeleteToDo() (1.742 s)
-  testFooter() (1.442 s)
-  testHomeNavbarLink() (1.493 s)

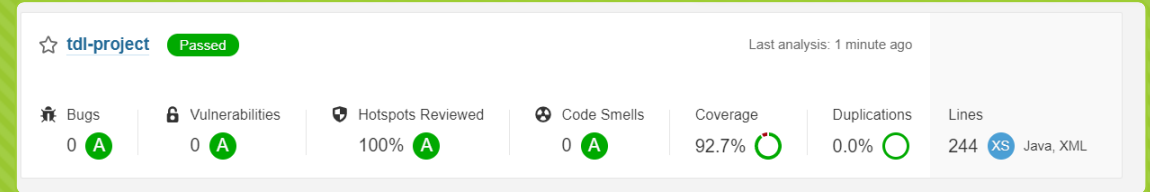
▼  HomeTest [Runner: JUnit 5] (9.100 s)

-  testLogoLink() (1.511 s)
-  testToDoListLink() (1.516 s)
-  testOpeningPage() (1.487 s)
-  testLogoImg() (1.558 s)
-  testLearnMoreBtn() (1.584 s)
-  testFooter() (1.439 s)

# Before



# After



# SonarQube



# Sprint Review

- Completed all user stories determined using MVP
- No delays

# Sprint Retrospective

Past coding  
experience  
helped

Points score  
have improved  
since last time  
use

Past project  
experience  
helped

# Conclusion



Learned new  
technologies



Exciting  
experience



Able to use new  
testing tools



Learned to build a  
full-stack  
application



Future steps may  
be to deploy it to a  
server



# Thank you

Any Questions?