

TD Project

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Agenda

- ▶ Technologies used
- ▶ Set up
- ▶ Approach to GIT
- ▶ Development
- ▶ Testing Phase
- ▶ Sprint Review
- ▶ Sprint retrospective

Technologies used

GitHub

Jira

MySQL

Java (Eclipse)

CSS, HTML and Java Script in Visual Studio Code

Spring Boot

Maven

Junit

SonarQube

Set up

Look at the Brief

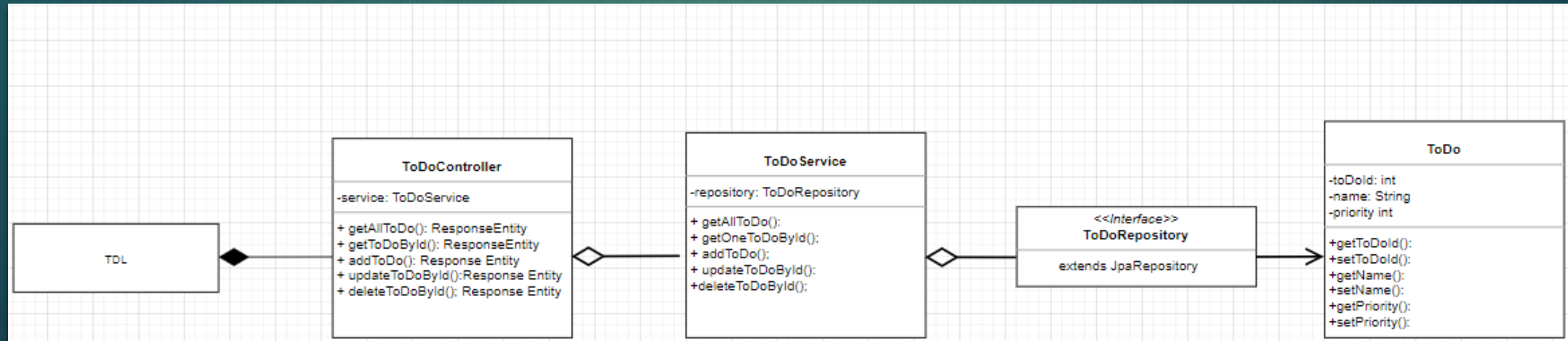
Create UML and ER diagram

Risk Assessment

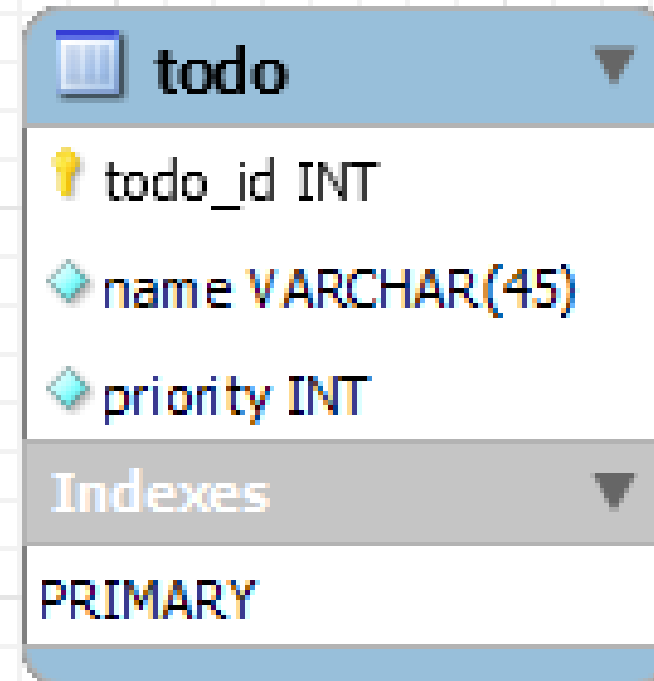
Jira

UML

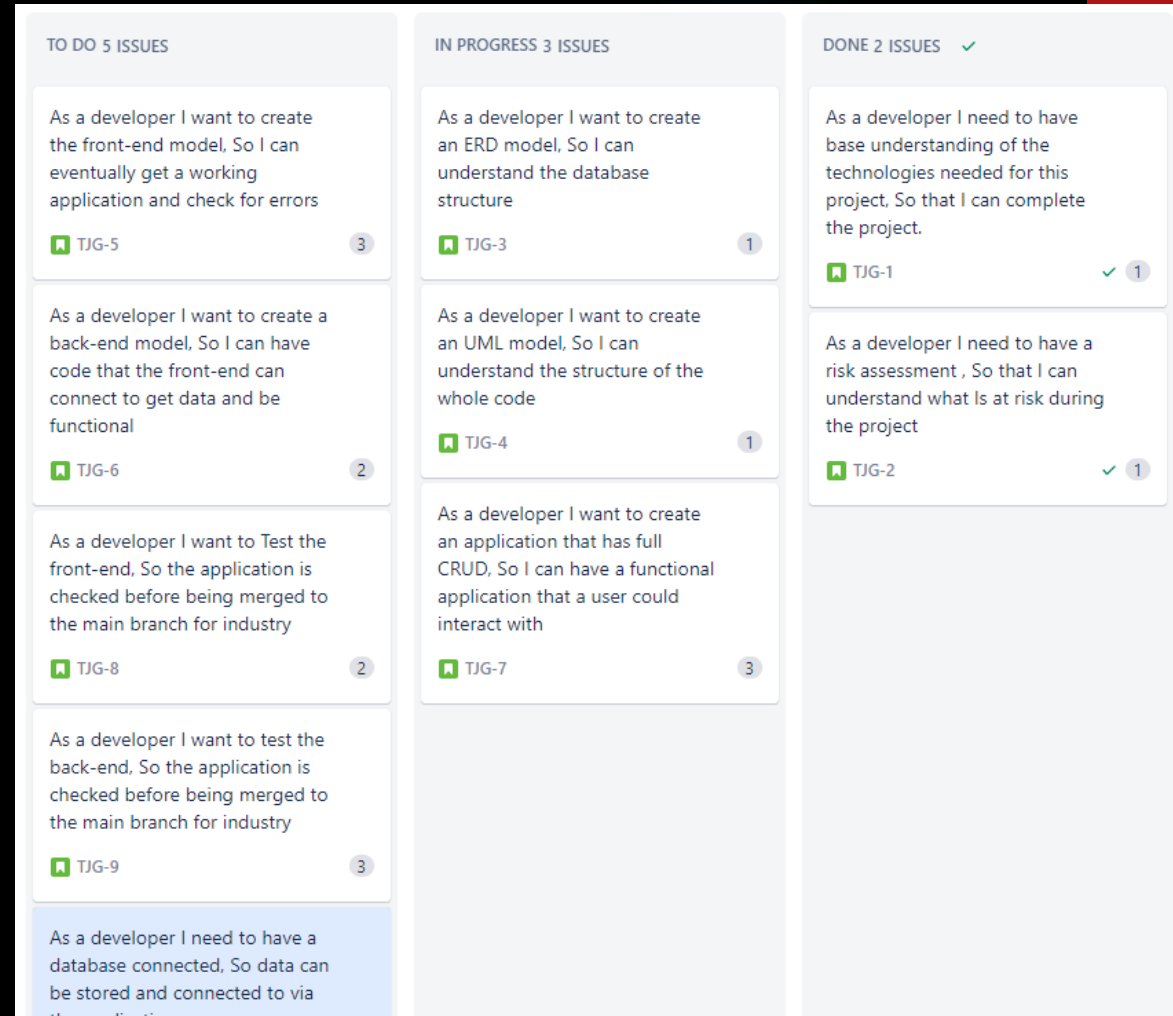
- ▶ Controller
- ▶ Service
- ▶ Repository
- ▶ Model



ER Diagram



Jira and the Sprint



User Stories

[Add epic](#) / [TJG-1](#)

As a developer I need to have base understanding of the technologies needed for this project, So that I can complete the project.

[Attach](#) [Add a child issue](#) [Link issue](#) [▼](#)

Description

Add a description...

Activity

Show: [All](#) [Comments](#) [History](#)

Newest first ↕

GW

Add a comment...

Done ▼

✓ Done

Details

^

Assignee

Unassigned

Labels

None

Sprint

TJG Sprint 1

Story point estimate

1

Reporter

GW George Whyte

User Stories

Add epic / TJG-4

As a developer I want to create an UML model, So I can understand the structure of the whole code

Attach

Add a child issue

Link issue

Description

Add a description...

Activity

Show:

All

Comments

History

Newest first

GW

Add a comment...

Pro tip: press **M** to comment

Done

✓ Done

Details

Assignee:

Unassigned

Labels:

None

Sprint:

TJG Sprint 1

Story point estimate:

1

Reporter:

GW George Whyte

Created 3 days ago

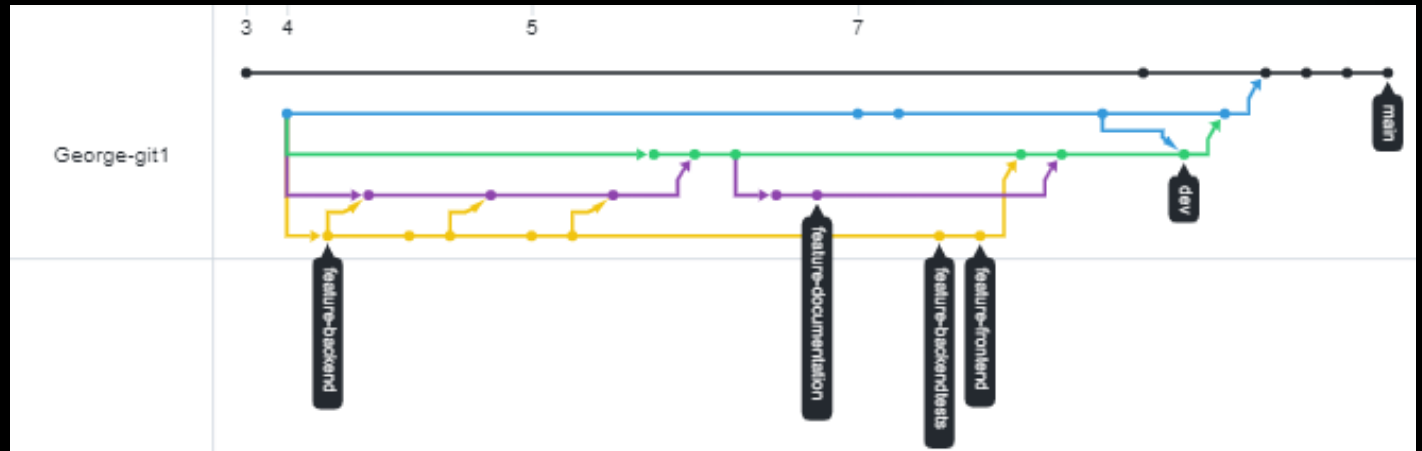
Updated 3 days ago

Resolved 3 days ago

Configure

My Approach to GIT

- ▶ Multiple branches for features
- ▶ Using commits and merging
- ▶ Final merge to main



Development

Front-end

Back-end

SQL

Postman

The screenshot shows the Postman application interface. At the top, the URL bar displays `http://localhost:1999/todo/readall`. Below the URL bar, the request method is set to `GET`. The request body is configured as `JSON` and contains the following content:

```
1 [
2   {
3     "name": "Run more tests",
4     "priority": 2
5   },
6   {
7     "id": 2,
8     "name": "Run another test",
9     "priority": 2
10  },
11  {
12    "id": 8,
13    "name": "Buy a guitar",
14    "priority": 3
15  },
16  ]
17 ]
```

The response is displayed in the `Body` tab at the bottom, showing a JSON array with three items:

```
1 {
2   "id": 1,
3   "name": "Run a test",
4   "priority": 2
5 },
6 {
7   "id": 2,
8   "name": "Run another test",
9   "priority": 2
10 },
11 {
12   "id": 8,
13   "name": "Buy a guitar",
14   "priority": 3
15 },
16 ]
```

The status bar at the bottom right indicates `Status: 200 OK`, `Time: 109 ms`, and `Size: 867 B`. The `Save Response` button is visible.

Website Demo

Testing

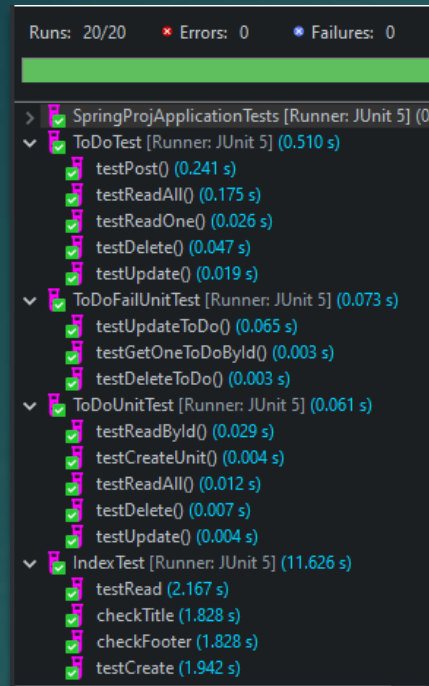
INTEGRATION TESTS



UNIT TESTS



SELENIUM



Coverage

spring-proj (8 Aug 2021 15:06:30)

Element	Coverage	Covered Instructions	Missed Instructions
spring-proj	95.5 %	1,008	
src/main/java	84.2 %	235	
src/test/java	99.5 %	773	

Testing

- ▶ Integration Tests
- ▶ Unit Tests
- ▶ Selenium Front-End tests

sonarqube

[Projects](#)
[Issues](#)
[Rules](#)
[Quality Profiles](#)
[Quality Gates](#)
[Administration](#)

?

A

tdl-project

☆

master

Last analysis had 1 warning

August 9, 2021, 9:29 AM

Version 0.0.1-SNAPSHOT

🏠

Overview

Issues

Security Hotspots

Measures

Code

Activity

Project Settings

Project Information

❌

The Project Analysis has failed. More details available on the [Background Tasks](#) page.

ℹ️

To benefit from more of SonarQube's features, [set up analysis in your favorite CI](#).

×

QUALITY GATE STATUS

Passed

All conditions passed.

MEASURES

New Code

Since August 6, 2021

Started 3 days ago

Overall Code

1

🐛 Bugs

Reliability

C

2

🔒 Vulnerabilities

Security

D

1

🔍 Security Hotspots

0.0%

Reviewed

Security Review

E

1h 28min

Debt

22

🧴 Code Smells

Maintainability

A

85.3%

Coverage on 67 Lines to cover

14

Unit Tests

0.0%

Duplications on 274 Lines

0

Duplicated Blocks

sonarqube

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[Administration](#)

?

A

A

Administrator

[Profile](#)
[Security](#)
[Notifications](#)
[Projects](#)

Those projects are the ones you are administering.

tdl-project

Analyzed 10 minutes ago

Passed

com.qa.tdl

Project for Spring Boot application

tdl-project

Analyzed 4 minutes ago

Passed

spring-proj

Project for Spring Boot application

2 of 2 shown

SonarQube

Sprint Review

Completed all user stories

Had some issues with some integration and unit tests/ SonarQube access

Spring Retrospective



Last project helped me
become more comfortable

Testing surpassed the industry
standard (last time it did not)

Conclusion

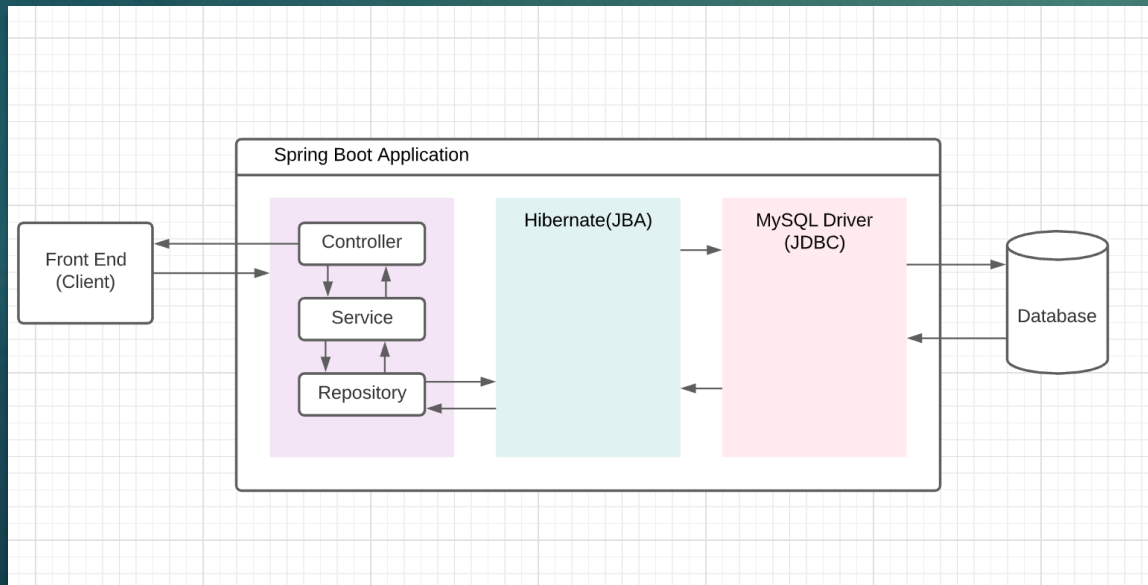
PROJECT SUCCESS

LEARNED NEW TECHNOLOGIES AND ABLE TO PUT THEM IN PRACTICE

LEARNED A LOT ABOUT MY PERSONAL STRENGTHS AND WEAKNESSES

FOR THE FUTURE- PRACTICE JAVASCRIPT

	Risk	Statement	Response	Objective	Likelihood	Impact	Risk Level				SEVERITY				
											Minimal	Minor	Moderate	Major	Severe
1	Software is outdated and doesn't work	Need to keep all software updated to recommended version	I will ensure that all software is the required version to work	Keep software updated	2	4	5			Guaranteed	5	10	15	20	25
2	My internet stops working	If i have no internet and it prevents me from doing my project	I will have to make sure i can go to a friends house	Make sure i have an internet connection at all times	5	10	9			Expected	4	8	12	16	20
3	Computer harddrive corrupts	Make sure harddrive doesn't corrupt	Use git and a cloud save to make sure its accessible	Make sure to have a back up to deal with this issue if happens	2	12	16			Likely	3	6	9	12	15
4	Not following the jira planning	Need to keep to the timings so all tasks get completed.	Make sure to stick to jira planning process	Follow jira board planning step by step	4	2	3			Possible	2	4	6	8	10
5	unexpected error encounters	If there are errors in my code that are unexpected.	step through to find or if blocking ask for help	Try to code smoothly and not as complicated	9	9	6			Unlikely	1	2	3	4	5
6	Wanting to change something last minute	If i want to change an aspect of my project	I will have a plan which i will stick to	Create a plan which will make my project run smoothly	5	8	8								
7	Files get deleted or changed	If my files get deleted or don't save/update	Constantly push to git and save/update on java to back up	Protect my code	8	16	10								



Additional Documentation



Thank you

Any Questions?