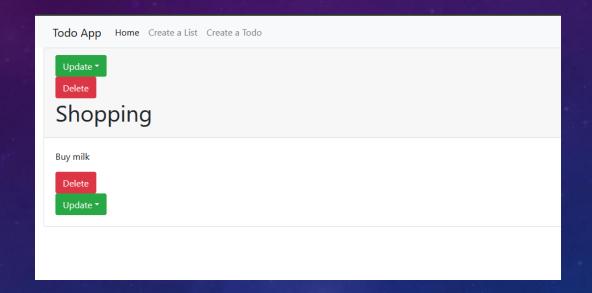
TODO APP

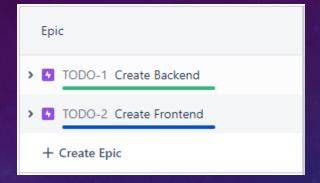


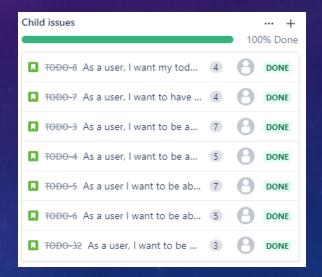
CONCEPT

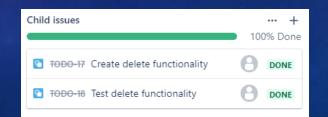
- I thought that the best way to approach this was to start on the backend first, as it is the most important part in my opinion.
- I also thought that making the frontend look pretty wouldn't be wise as it would leave me less time to make everything functional, so design was the bottom of the priority list.

SPRINT PLAN

- The Backend implementation
- The Frontend



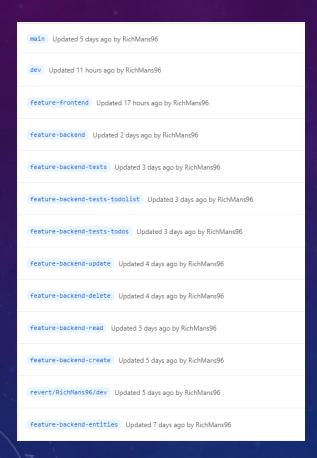


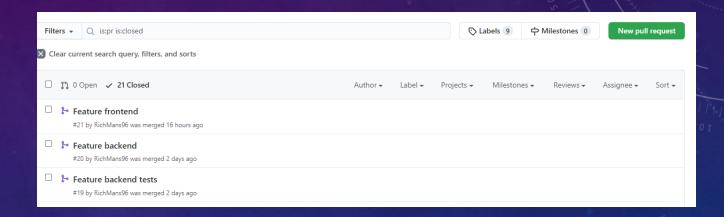


TECHNOLOGIES LEARNED FOR THIS PROJECT

- Spring Boot A Development framework
- Selenium automated testing frameword
- SonarQube-static code analysis tool
- Bootstrap CSS framework

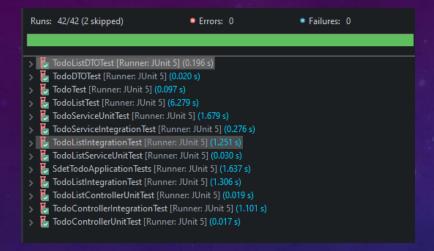
CI - GIT







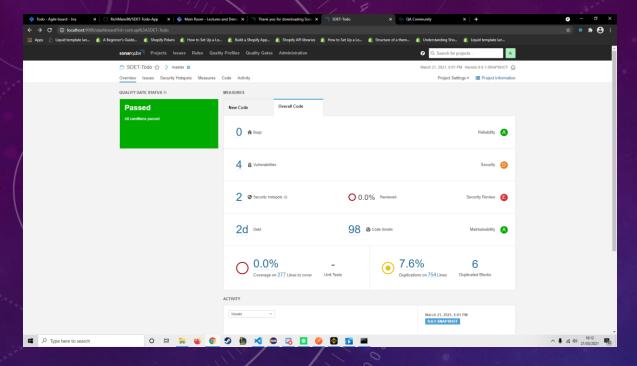
TESTING



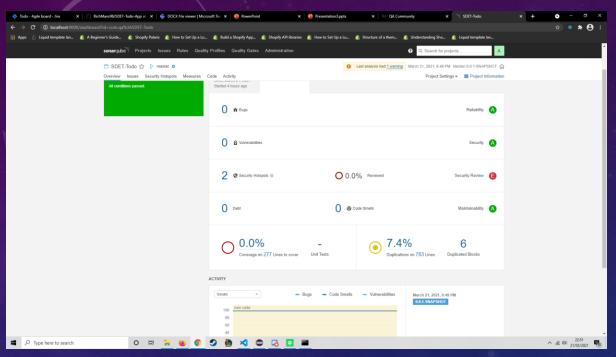
I skipped 2 tests, 1 was due to an error with the Object mapper module, and 1 failure due to a test coming back with a null array, when it was expecting a todo in that array.

✓ SDET-Todo	95.4 9	6 2,944	141	3,085
🗸 📂 src/main/java	88.7 °	6 907	115	1,022
> 🏪 com.qa.Todo.service	81.5 9	6 203	46	249
> 🌉 com.qa.Todo.data.model	93.1 9	6 271	20	291
> 🌉 com.qa.Todo.dto	94.2 9	6 259	16	275
> 🏪 com.qa.Todo.exceptions	0.0 9	6 0	14	14
> 🌉 com.qa.Todo.mappers	65.0 9	6 26	14	40
> 🏪 com.qa.Todo	37.5	6 3	5	8
> 🏪 com.qa.Todo.configuration	100.0 9	6 14		14
> 🌉 com.qa.Todo.controller	100.0 °	6 131		131
> 📂 src/test/java	98.7 9	6 2,037	26	2,063

I have 88.7% test coverage. This could be improved by testing the exceptions. Also as I am skipping 2 tests that relate to the todolist, that is reducing coverage.



On the left you can see I had 98 code smells. Also, it couldn't pick up my code coverage, I spent a few hours trying to get that to work but to no avail.



A lot of these issues were down to me using public class for my tests, so I ignored those. I then had a view sys outs in my program from debugging so I removed those, there were also a view auto generated comments that I removed too. Sonarqube also didn't like the Autogenerated Equals methods so I just ignored those too.



ISSUES

- Eclipse deleting classpaths towards the end of my project, my app could no longer run and I spent a few hours figuring out why. For some reason eclipse had removed all classpaths and I had to run mvn clean install to get everything back up and running again.
- CORS on the frontend I encountered this error a few times. It's a bit ambiguous but in my case it was due to missing the @Crossorigin annotation in one of my controllers and errors in the url I was fetching.
- Sonarqube Sonarqube wouldn't pick up my test coverage.
- Selenium! I had a few issues with selenium, first being that the tests weren't being run from my main project, so I had to create a second project just for my selenium tests. Second problem with selenium is that it passes once but if tests are then run again it breaks my backend, meaning I have to restart the app every time.
- Bootstrap version 5 vs version 4 I had an issue with dropdown menus, after spending a few hours trying to troubleshoot the issue I still couldn't get them to work, then I changed from Bootstrap 5 to 4 which fixed the issue.

SPRINT REVIEW

- I completed the basic MVP
- I didn't get to implement todo status.
- I didn't design the app as well as I could have.

REFLECTION

- I became a bit too fixated on trying to get my git network graph to look good, which wasted some of my time. Ultimately it really is that important if it looks nice.
- I will revisit this app and implement React for the frontend. I find React less fiddley than Bootstrap.
- I would like the revisit Selenium and SonarQube too as there are definitely gaps in my knowledge there that need to be seen to.
- I think backend implementation and unit/implementation tests are my strong points but as with anything they can still be worked upon.