# To-Do List Web Application

SDET week 8

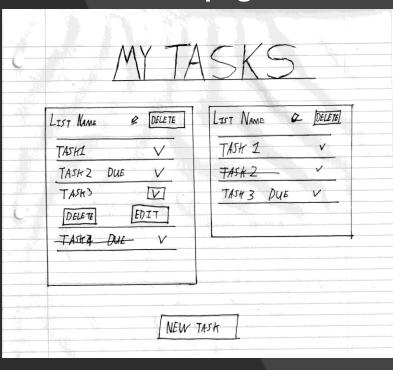
# Design Specification

To create an OOP-based web application, with utilisation of supporting tools, methodologies, and technologies, that encapsulates all fundamental and practical modules covered during training.

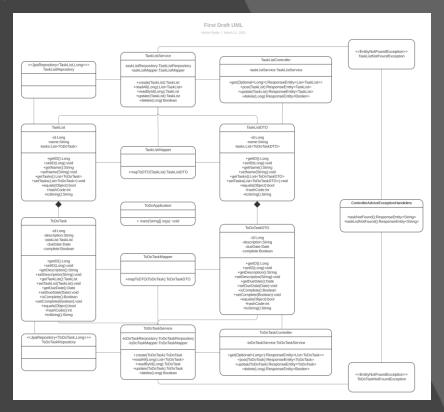
- Simple webpage using bootstrap, Create tasks organised into lists.
- Spring boot application handles from API to Database
- Keep it simple, focus on getting the testing right.

# Planning - Design

#### Wireframe webpage

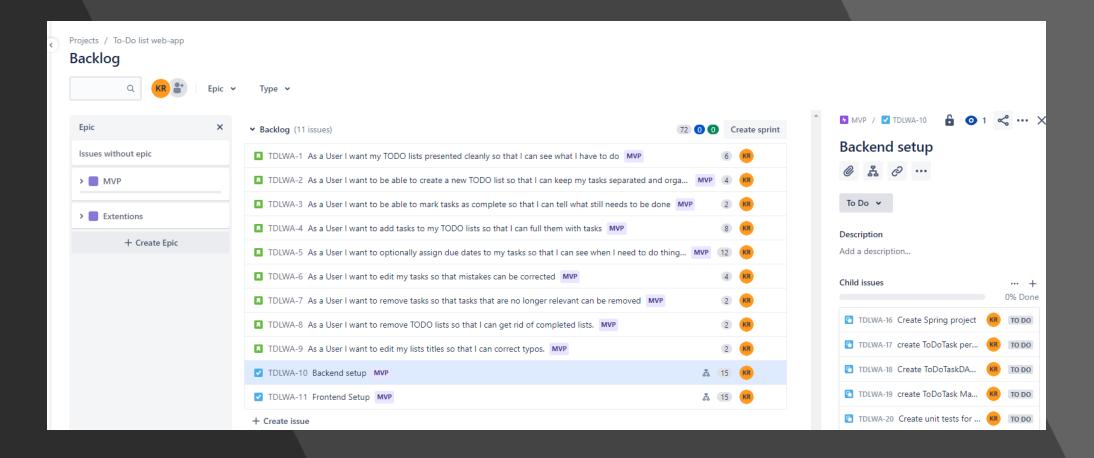


#### **UML**



## Planning – Sprint Tools

- Build task backlog on jira
- Setup git integration with Jira



# Technologies Used

#### Old/Proven

- Git
- Java
- JUnit5
- JavaScript
- Mockito
- Maven
- MySQL

#### New/Less-experienced

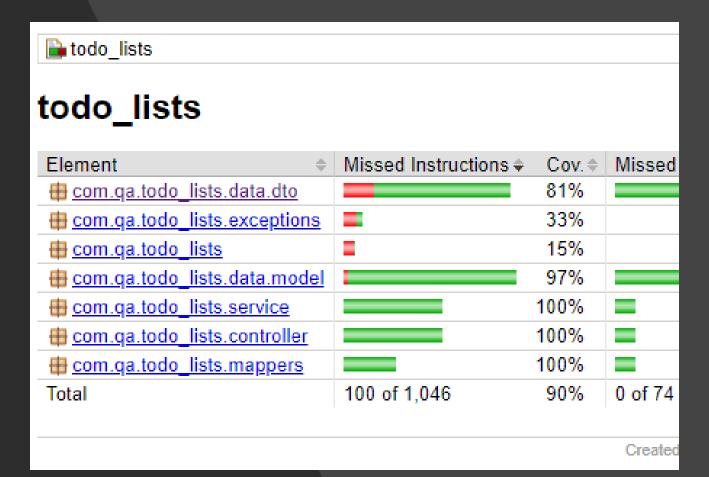
- Spring
- HTML/CSS
- Selenium
- SonarQube

#### Version control

TDLWA-27 created basic page with placeholder Added interface icons TDLWA-27 #Comment setup bootstrap and masonry TDLWA-24 #Comment created Dummy methods for Controllers and Serv TDLWA-19 #Comment fixed dummy methods for ToDoTaskController an TDLWA-19 #Comment created dummy methods for ToDoTaskController TDLWA-23 #Comment created Mapper classes TDLWA-23 #Comment added collum name to taskList id added application properties files TDLWA-22 #Comment added collum name to taskList id TDI WA-22 #Comment created Tasklist

- All code stored on github:
- https://github.com/KLRyder/TDL WA project2
- Using a standard main-devfeature branching model.
- Feature branches named after corresponding Jira story

### Testing



- Coverage: 90% in src/java according to JaCoCo/EclEmma
- Unit tests for all classes with JUnit5
- Integration tests for Controllers and Service classes with JUnit5
- Acceptance testing Webpage with Selenium

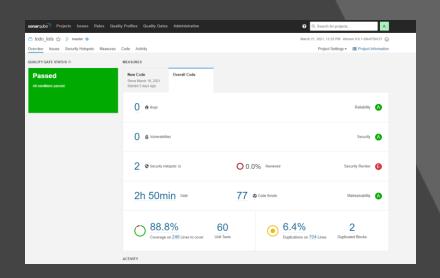
## 

#### Static Analysis

Using SonarQube

Examples of fixes and comments on them in directory "static a" on github.

Most code smells are just the use of "public" in JUnit 5





# Quick Demonstration

# Self-Evaluation

# Sprint Review

#### **Positives**

Full MVP completion

#### **Negatives**

Not enough time to make website look good

# Sprint Retrospective

#### **Positives**

- Managed time well Low stress
- Frontend went far better than expected
- Minor UML was nearly perfect on first pass. Was also satisfyingly symmetrical.
- Project did not need to change much from conception to completion

#### Negatives

- Still awful at actually estimating time taken on tasks
- Didn't keep up with documenting workflow very well

# Closing Remarks

- Overall, reasonably happy with outcome considering initial reservations
- Spring is a powerful tool, but the loss of control inherent to inversion of control is not something that I am a fan of.
- Masonry is a fantastic tool, but it did highlight how much nice building this kind of app would be in jQuery.
- Future improvements: make the website not look boring as sin.

# Questions?