

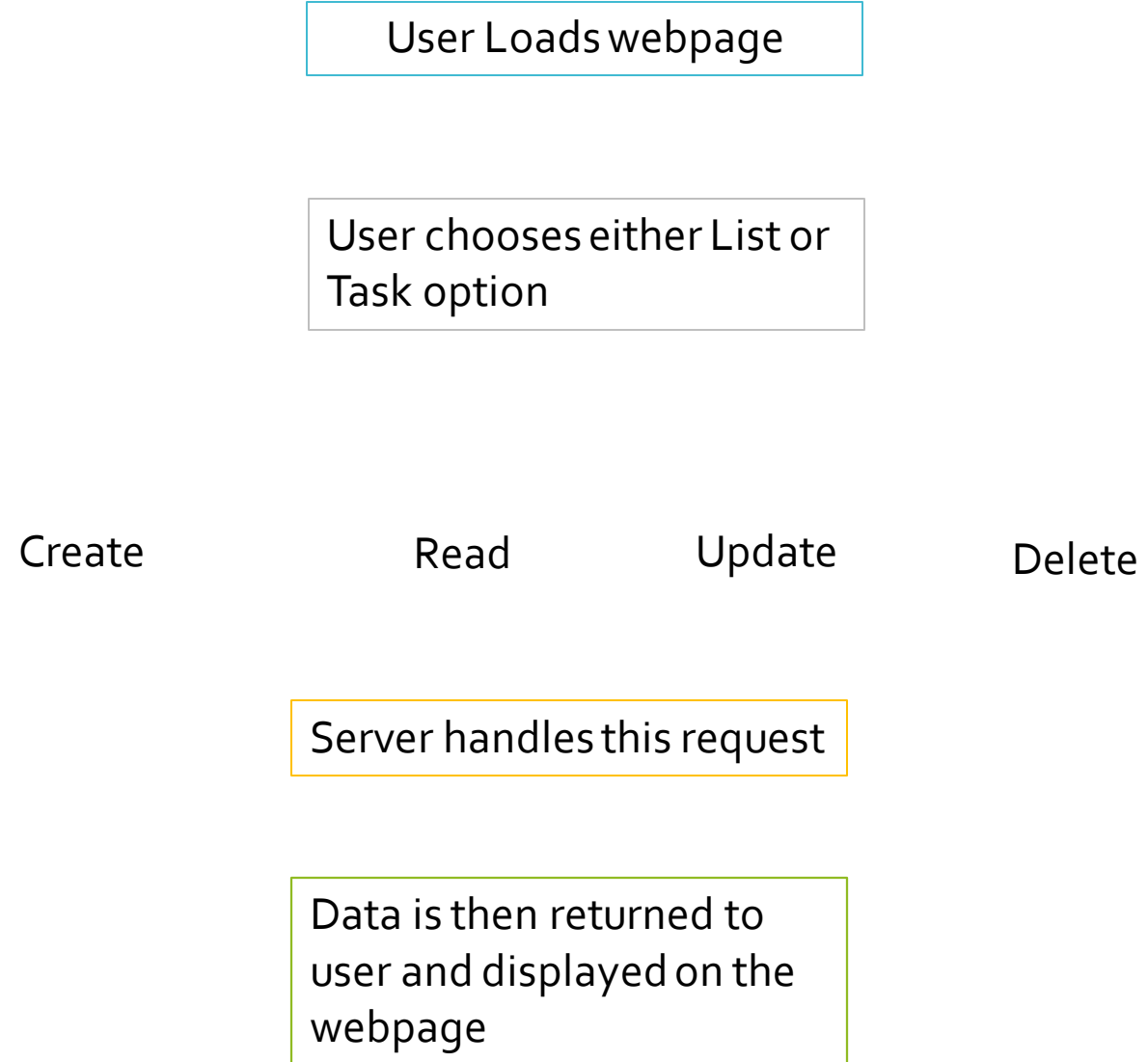
# Project 2 - TDL

Work and presentation by Henry Oliver-Edwards

# Introduction

- Part of the SDET2020DEC cohort
- This project has a Java back-end using the spring framework and a HTML/CSS/JavaScript front-end
- The application provides a web based interface and allows the user to create generic lists and create generic tasks that go inside these lists
- These lists and tasks are then either stored in a temporary (H2 database for development/testing) or permanent (MySQL database for production)

# Project flow and objectives



# Project technologies and their usefulness

- Java and the JVM
  - Maven
  - JUnit
  - Mockito
  - SonarQube
- The project is entirely programmed in java and runs in the JVM
  - Maven is a build tool which allows for the packing of java files into a fat-jar
  - JUnit is a unit testing tool which individually tests the components of your code
  - Mockito is a behavioral testing framework that allows us to test our codes output.
  - SonarQube analyses code for bugs, security flaws and linting

# Project technologies and their usefulness

- Spring framework
  - Lombok
  - Selenium
- This project is based entirely on the spring framework and modules from this such as the web module
  - Lombok is used to generate boilerplate code such as constructors, getters, setters etc.
  - Selenium provides a way to acceptance test the product emulating a browser

# Testing

Overall coverage at 88%

## Test methods used

- Unit testing
  - Integration testing
  - Acceptance testing
- Unit testing provides a way to test individual classes or objects in a project so that they can work on their own as expected
  - Integration testing provides a way to test how multiple objects in a system may interface with each other
  - Acceptance testing provides a way to test the business logic of an application

The slide features a white background with two large teal geometric shapes. On the left, a teal triangle points towards the center. On the right, a teal trapezoid is positioned. The text "Demonstration time!" is centered between these shapes.

Demonstration time!

# Sprint review

## Completed

- All core CRUD functionality (for lists and tasks)
- A minimal, fast and functional front-end interface
- Over 88% test coverage

## Not completed

- The ability to search/delete by name rather than ID (as IDs may be hard to remember)
- Complete acceptance test coverage



# Sprint retrospective

## What went well

- Completed A vast amount of work including development/UX/testing in a small amount of time
- Utilized many project technologies such as Jira/Git/etc

## What could be improved

- Prioritize testing over other features or a nice UI design

Thank you for  
listening any  
questions?

