To-do List (TDL) Web Application



By Celina Basa

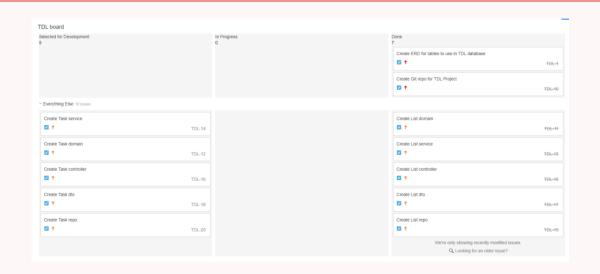
Introduction

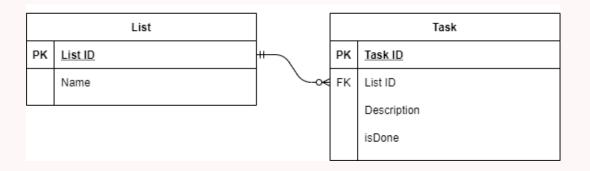
Who am I?

QA Trainee Consultant

How did I approach the specification?

- Considered concept of minimum viable product
- Started with Kanban board and ERD





Sprint Plan

Meet the minimum specification requirements:

- At least two entities
- Functional front-end which connects to back-end
- >80% test coverage
- Unit and integration testing
- User-acceptance testing
- Static analysis

Consultant **Journey**

Technologies learnt for this project:

- Spring Boot
- JavaScript
- HTML
- CSS
- Selenium
- SonarQube







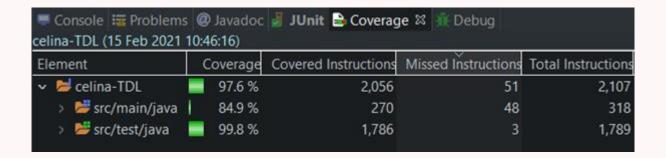


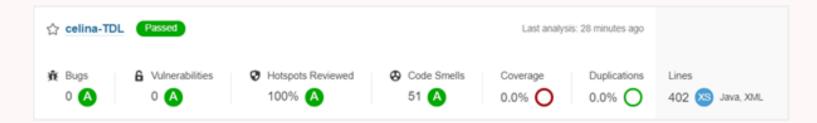




Testing

Coverage and static analysis with SonarQube





Demonstration

What was completed:

- Test coverage of 80% reached
- Fat .jar able to run from the command-line
- Supporting documentation
- Basic CRUD functionality for lists and tasks

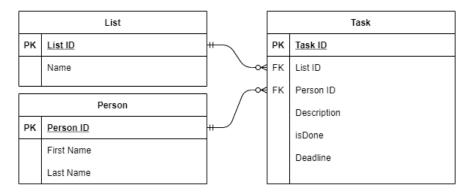
What got left behind:

- Generating .war file instead of .jar
- Applying more involved styling to front-end

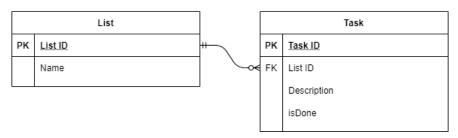
Sprint Review

Sprint Retrospective

Intended final ERD for TDL:



Actual final ERD of TDL:



Sprint Retrospective

```
∨ 2 ■■■■ src/main/java/com/qa/demo/rest/TaskController.java 🖺
             @@ -5,6 +5,7 @@
               import org.springframework.beans.factory.annotation.Autowired;
               import org.springframework.http.HttpStatus;
               import org.springframework.http.ResponseEntity;
         8 + import org.springframework.web.bind.annotation.CrossOrigin;
               import org.springframework.web.bind.annotation.DeleteMapping;
               import org.springframework.web.bind.annotation.GetMapping;
               import org.springframework.web.bind.annotation.PathVariable;
             @@ -18,6 +19,7 @@
               import com.ga.demo.persistence.dtos.TaskDTO;
               import com.qa.demo.services.TaskService;
        + @CrossOrigin
               @RestController
               @RequestMapping("/Task")
               public class TaskController {
                    private TaskService service;
                    @Autowired
                    public TaskController(TaskService service) {
                            super();
                            this.service = service;
```

```
√ 2 ■■■■ src/main/java/com/qa/demo/rest/ListController.java 

□

            @@ -5,6 +5,7 @@
              import org.springframework.beans.factory.annotation.Autowired;
              import org.springframework.http.HttpStatus;
              import org.springframework.http.ResponseEntity;
        8 + import org.springframework.web.bind.annotation.CrossOrigin;
               import org.springframework.web.bind.annotation.DeleteMapping;
              import org.springframework.web.bind.annotation.GetMapping;
               import org.springframework.web.bind.annotation.PathVariable;
             @@ -18,6 +19,7 @@
               import com.ga.demo.persistence.dtos.ListDTO;
               import com.qa.demo.services.ListService;
       + @CrossOrigin
               @RestController
               @RequestMapping("/List")
              public class ListController {
                    private ListService service;
                    @Autowired
                    public ListController(ListService service) {
                            super();
                            this.service = service;
```

Conclusion/Q&A



Reflections



Future steps