

# CRUD Application

Conor Kelly

# Contents



Introduction



Technologies



Demonstration



Summary

# Introduction

## Task

Create a CRUD application using supporting tools, methodologies and technologies that have been taught during training.

## Topic

Dog Pound

## Why dog pound?

### Planning approach

- Main Sections:
  1. Back-End - Business Layer
  2. Database - Persistence Layer
  3. Front-End - Presentation Layer
- Prerequisites:
  - Risk Assessment
  - Jira Board
- Final Deliverables:
  - Documentation
  - Presentation

Likelihood	Impact					
		Negligible 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
	Almost certain 5	Moderate 5	High 10	Extreme 5	Extreme 20	Extreme 25
	Likely 4	Moderate 4	High 8	High 12	Extreme 16	Extreme 20
	Possible 3	Low 3	Moderate 6	High 9	High 12	Extreme 15
	Unlikely 2	Low 2	Moderate 4	Moderate 6	High 8	High 10
	Rare 1	Low 1	Low 2	Low 3	Moderate 4	Moderate 5

Risk	Likelihood	Impact	Risk Rating	Preventative Measures	Response
Run out of time	4	3	12	Complete tasks with higher prioritisation first and start tasks with higher story points earlier. Refer to kanban board	Complete the tasks for all user stories that you can with the time you have left. If you ran out of time due to personal or unforeseen circumstances, talk to project trainer
Loss of files	2	4	8	Push all files and commits to your Github repository regularly as well as always saving files	Use last saved peice of work or most recent work from Github to build your code/databases again
Poor quality code	3	2	6	Test code frequently and use best pratises learnt throughout the Java teaching	Resolve bugs and logical errors when they're found
Low productivity	5	2	10	Set goals during the project using the SMART technique	Take time away from the project to clear your mind and come back to it feeling fresh
Inaccurate estimations	4	4	16	Focus on the work that has immediate priority. Include techspikes - allocated time to research an unfamiliar part of the project	Work on proeject out of training hours. Talk to the project trainer and explain the circumstances
Poor risk management	2	2	4	Identify potential risks and the likelihood of them. Create risk mitigation plans and carefully monitor the risks	Create a risk assessment upon the first encounter with a risk in order to prevent any other risks from occuring or taking too much time out of the project

DOG-2	As a developer I want to create a risk assessment to prepare for uncertainties	PREREQUISITES	1	=	TO DO	
DOG-3	As a developer I want to create a repository on Github to have a record of all my saved work	PREREQUISITES	2	^	TO DO	
DOG-5	As a developer I want to create a repository on Github for my front-end to have a record of all my saved work	PREREQUISITES	2	^	TO DO	
DOG-4	As a developer I want to create a database so I can store data for the program	PREREQUISITES	4	=	TO DO	
DOG-9	As a developer I want to define the characteristics of a dog to populate my database	BACK-END	4	=	TO DO	
DOG-12	As a developer I want to create CRUD functionality to manipulate data	BACK-END	8	=	TO DO	
DOG-19	As a developer I want to handle http requests so data can be manipulated from the front-end	BACK-END	8	=	TO DO	
DOG-28	As a developer I want to create tests to ensure my program is working	TESTING	10	^	TO DO	
DOG-29	As a developer I want to test my database is updating to ensure the program is functioning	TESTING	3	v	TO DO	

TO DO 2 ISSUES

As a user I want to be able to get one dog from the database in order to access their information

FRONT-END

DOG-41

4 ^

As a user I want to be able to edit the information of a dog to keep records up to date

FRONT-END

DOG-42

7 ^

IN PROGRESS 1 ISSUE

As a user I want to be able to remove a dog from the database to keep records updated

FRONT-END

DOG-43

4 ^

DONE 2 ISSUES ✓

As a user I want to be able to get a list of all dogs to keep a record of all dogs

FRONT-END

DOG-40

✓ 3 ^

As a user I want to be able to create a dog to add a new dog to the register

FRONT-END

DOG-39

Epic	FEB	MAR	APR
DOG-1 Prerequisites		DOG Sprint 2...	
DOG-6 Back-end			
DOG-7 Front-end			
DOG-27 Testing			
DOG-29 As a developer I wa... DONE			
DOG-28 As a developer I wa... DONE			
DOG-8 Final deliverables			
DOG-46 As a trainee I want ... TO DO			
DOG-47 As a trainee I ... IN PROGRESS			
DOG-44 As a trainee I want t... TO DO			

Today

Weeks

Months



# Technologies/Supporting Tools

## Version Control System

Git

### Presentation Layer

Front-End

HTML - Structure

JavaScript - Functionality

CSS - Design

### Business Layer

Back-End

Java

Maven

Spring Boot

Mockmvc

Postman - API

### Data Layer

MySQL



# Improvements

- Push changes to github more frequently
- Create more readable/ordered code in HTML and JavaScript files

---

# Demonstration

# Summary

# What went well?

- Core fundamentals
- Use of Github
- Approach to planning

---

# What didn't go well?

- Jira board
- Best practice

---

# What could be done differently?

- More focus on user-friendliness
- Creativity

---

# What have I learnt?

- Three tier architecture
- API
- Improved confidence in functional coding