Agile Programming

Sprint 2 – Test-Driven Report

Team 2

(Lewis Davie | Andrew Davis |Tristan Haley | Matt Malone | Artur Popov | Lewis BOyden)

2016

# Background

In order to best show our understanding of the Test-Driven Development practice, we decided to choose a simple problem that would be easily testable using different data to highlight the possible outcomes, and thus build the code around it to work.

# Functionality

The method we chose for the screencast (and this report) is of adding a student to the register for a specific class via the lecturer directly. This process would involve the lecturer selecting the option from the application, and manually adding the student ID (matric no.), thus adding the student to the register for that specific class.

# Acceptance Test

## Description

A lecturer should be able to manually add a student to the register if they are unable to scan in normally (e.g. they have no device with which to scan-in, or are not on the attendance list at all). The lecturer should be unable to add the student if they are already on the list, or do not exist in the records.

## Instructions

1. Attempt to add student with invalid ID
2. Attempt to add student with valid ID, who ***is not*** already on the list
3. Attempt to add student with valid ID, who ***is*** already on the list

## Expected Results

1. Error message informing user (lecturer) of inability to add the student
2. Confirmation message of successful action
3. Error message informing user (lecturer) of inability to add the student

# Encountered Issues

Due to technical issues with testing the code across multiple threads, we had to mock up the data received / sent by these threads so as to successfully test the code. This means that the test is not as fluid as actual execution would be, but the core functionality is still tested suitably to demonstrate meeting the success criteria.