

Java Unit Testing Report

Project Overview

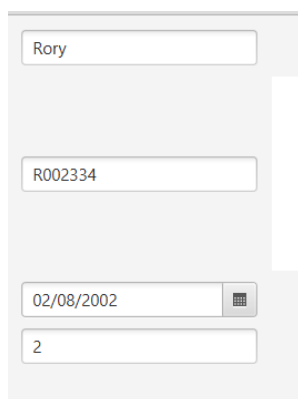
- Project Name: [Final Project Rory Harrington]
- Project Description: [a brief overview of the project, tasked with creating a database to store students and modules, and making]
- Date:[05/May/2023]

Testing Overview

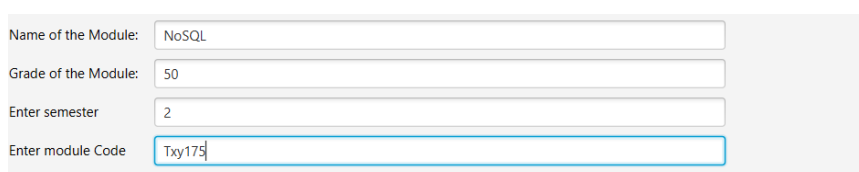
- Total Number of Tests: [total number of tests run]: 4 tests run
- Test Suite Name: ,Searching module and student, deleting a module and running a memory leak
- Test Suite Description: Searching for the student in the
- Expected out come ,
- Number of Skipped Tests: [number of skipped tests in this suite]

Test Case 1

- Test Case Name: [Students Adding]
- Test Case Description: [Adding a Student to the database anda module NoSQL with a grade of 50 and searching if its more than 40]
- Test Expectations : display the new student
- {Rory , R00233458, 02/08/2002 non linear: 50 semester :2 }
- Test Result:



Rory 2002-08-02 R002334 2



studentName	dateofbirth	studentId	year	year	grade	courseCode	moduleName
Rory	2002-08-02	R002334	2	2	68	R9140	OOP
jon	2003-05-07	12345	2	2	68	R9140	OOP
mike	2002-05-27	R12345	2	2	68	R9140	OOP
Rory	2002-08-02	R002334	2	2	80	R01011	NonLinear
jon	2003-05-07	12345	2	2	80	R01011	NonLinear
mike	2002-05-27	R12345	2	2	80	R01011	NonLinear
Rory	2002-08-02	R002334	2	2	56	T1234	sql
jon	2003-05-07	12345	2	2	56	T1234	sql
mike	2002-05-27	R12345	2	2	56	T1234	sql
Chris	2005-05-03	R00789	1	1	89	T1234	sql
<u>Rory</u>	2002-08-02	R002334	2	2	50	Txy175	NoSQL

When a new addition is added to the SQL , if the student has not entered the course it will take the module from some other user in the, I only tested the one to see if it will show, and it does

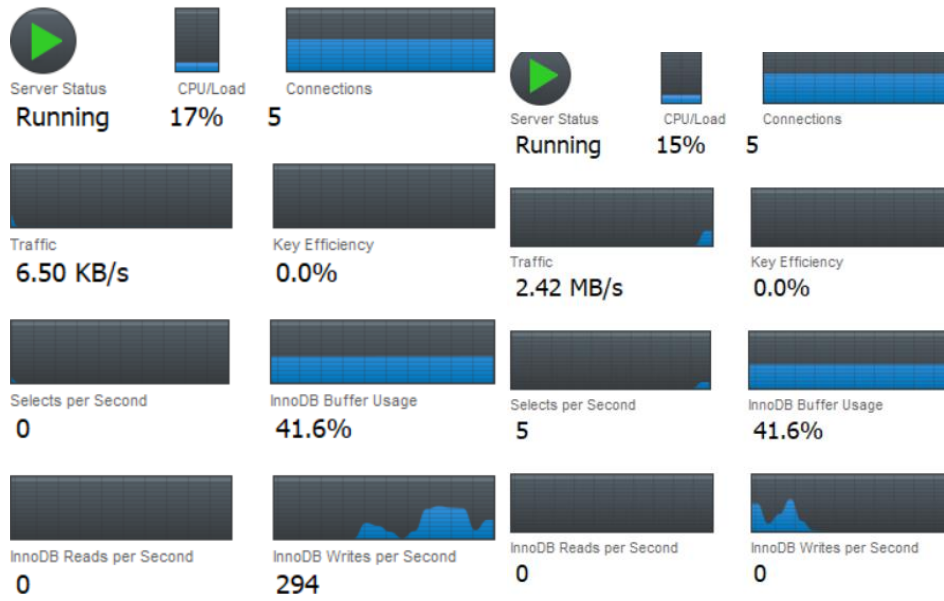
To fix the other users, note will have to enter in there own grade

Test Case Memory Leak

- Test Case Name: [Memory leak simulated]
- Test Case Description: [a simulation of a memory leak is optional , simulating a user being entered in more than once, for my example I enter]

catch block to catch the OutOfMemoryError, which will occur if the while loop runs infinitely and consumes all available memory. The error message will be printed to the console, indicating that a memory error has occurred. In this simulation I only go as far as 50, I tried to do an infinite for loop and it it crashes the gui but the

- Test Result:
- Failure Message: [if test failed, include details of the failure]



When running it twice and uping the cap from 50+,
Didn't actually give an out of memory