



The School of Technology



BSc (Hons) Computer Science (Software Engineering)

Module: 5CI022

Module Assessment

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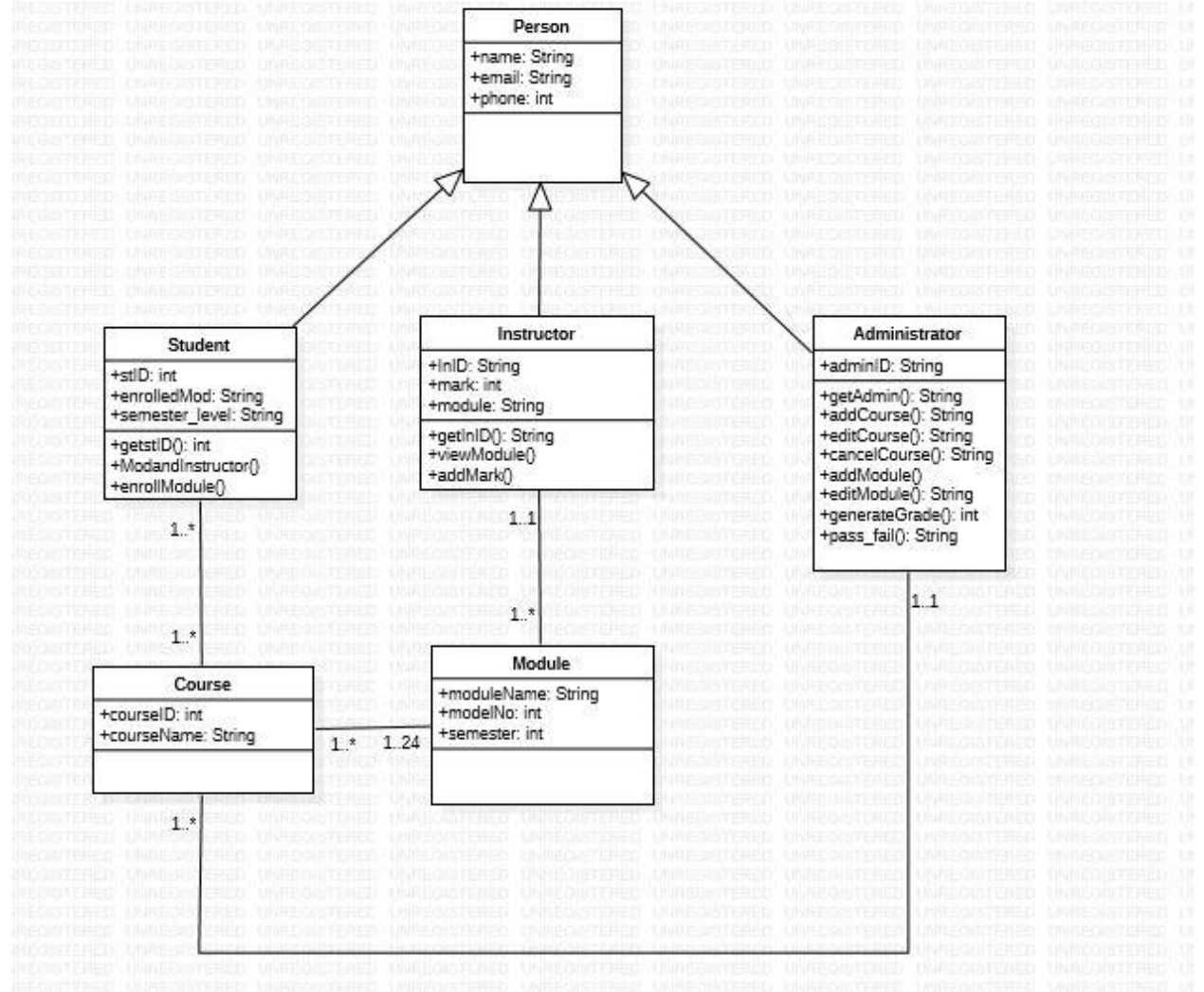
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UML Diagram



Junit Testing

Test

```
19 public class StudentTest {
20
21     Student JUnit = new Student();
22
23     @Test
24     public void testGetstID() {
25         System.out.println("getstID");
26
27         int result = JUnit.getstID(5);
28         assertEquals(5, result);
29         // TODO review the generated test code and remove the default call to fail.
30         //fail("The test case is a prototype.");
31     }
32 }
```

Output - Assignment (test)

Test Results X

assignment.StudentTest x



Tests passed: 100.00%



Both tests passed. (0.099 s)



>>

getstLevel
getstID

```

23     @Test
24     public void testGetstID() {
25         System.out.println("getstID");
26
27         int result = JUnit.getstID(5);
28         assertEquals(5, result);
29     }
30
31
32     @Test
33     public void testGetLevel() {
34         System.out.println("getstLevel");
35
36         String result = JUnit.getLevel("6");
37         assertEquals("9", result);
38     }
39
40
41 }
42

```

Output - Assignment (test)

Test Results X

assignment.StudentTest x



Tests passed: 50.00 %

1 test passed, 1 test failed. (0.09 s)

! assignment.StudentTest Failed

getstLevel
getstID

```
19 public class StudentTest {
20
21     Student JUnit = new Student();
22
23     @Test
24     public void testGetstID() {
25         System.out.println("getstID");
26
27         int result = JUnit.getstID(5);
28         assertEquals(3, result);
29     }
30
31
32     @Test
33     public void testGetLevel() {
34         System.out.println("getstLevel");
35
36         String result = JUnit.getLevel("6");
37         assertEquals("9", result);
38     }
39
40
41 }
```

Output Test Results ×

assignment.StudentTest ×

Tests passed: 0.00 %

No test passed, 2 tests failed.(0.085 s)

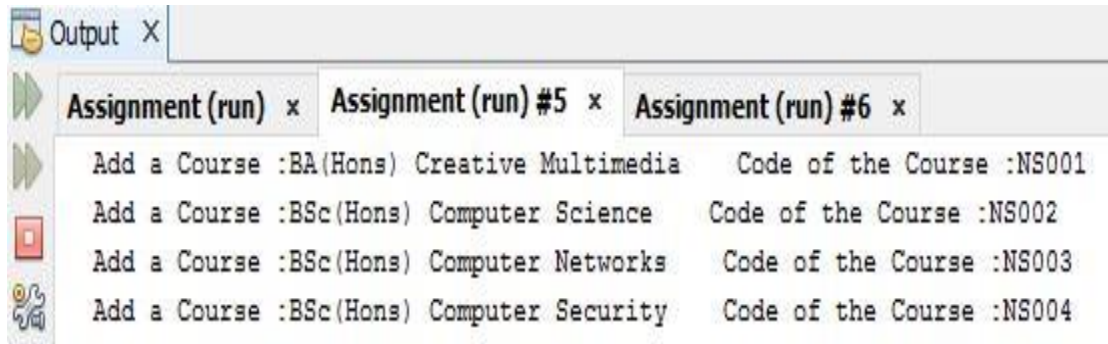
assignment.StudentTest Failed

getstLevel
getstID

Classes

Administrator

- public void addCourse(String code, String courseName)



- protected void editCourse()

```
Code of Course to be Edited: NS002
New Course Name: BSc(Hons) Business Information System
```

- public void cancelCourse()

```
Cancelled Course: NS003
Code :NS003 Course :BSc(Hons) Computer Networks cancelled
```

- public void addModule(int moduleNo,String moduleName)

```
Add modules to the Course :Communication Skills
Add modules to the Course :Information System
Add modules to the Course :Mathematics
Add modules to the Course :System Analysis Design
Add modules to the Course :Personal Computing
Add modules to the Course :Information System
```

- public void editModule(int moduleNo,String moduleName)

```
Module edited :Database
Module edited :Programming
```

- public int generateGrade()

```
Enter student average marks of all modules :
67
Student Grade :B
Enter Grade :
B
```

- public void pass_fail(String stdid)

```
Enter student average marks of all modules :
67
Student Grade :B
Enter Grade :
B
First upper class !
```

Student

- public String getStID()

```
Enter Student ID :
ST001
```

- public void enrollModule(String uId, String modCode,String module)

```
User ST001 successfully enrolled to Web Application
User ST001 successfully enrolled to Personal Computing
User ST001 successfully enrolled to Programming
User ST001 successfully enrolled to Database
User ST001 successfully enrolled to Mathematics
User ST001 successfully enrolled to Information System
```

- public void ModandInstructor(String enrolledModCode,String Instructor)

```
Module: NS001 Instructor: L1
Module: NS015 Instructor: L1
Module: NS018 Instructor: L2
Module: NS014 Instructor: L2
Module: NS013 Instructor: L3
```

Instructor

- public String getInID()


```
Input Instructor ID :  
L1  
Instructor ID :L1  
Ruvii Jayasekara  
ruvii@gmail.com  
34562
```

```
Input Instructor ID :  
L2  
Instructor ID :L2  
Chamod Lokuliyana  
chamod@yahoo.com  
98764
```

```
Input Instructor ID :  
L3  
Instructor ID :L3  
Michle Clarke  
mike@gmail.com  
98098
```

- public void viewModule(String InID, String modName)

```
Modules Can view by Instructor L1 - Mathematics  
Modules Can view by Instructor L1 - Information System  
Modules Can view by Instructor L1 - Personal Computing  
Modules Can view by Instructor L1 - Programming  
Modules Can view by Instructor L1 - Web Application  
Modules Can view by Instructor L1 - System Analysis Design
```

```
Modules Can view by Instructor L2 - System Analysis Design  
Modules Can view by Instructor L2 - Information System  
Modules Can view by Instructor L2 - Mathematics  
Modules Can view by Instructor L2 - Web Application  
Modules Can view by Instructor L2 - Personal Computing  
Modules Can view by Instructor L2 - Programming
```

```
Modules Can view by Instructor L3 - Web Application  
Modules Can view by Instructor L3 - Personal Computing  
Modules Can view by Instructor L3 - Programming  
Modules Can view by Instructor L3 - Information System  
Modules Can view by Instructor L3 - Mathematics
```

- public void addMark()

Pass mark of the Mathematics :40

Pass mark of the Information System :40

Pass mark of the Personal Computing :40

Pass mark of the Programming :40

Pass mark of the Web Application :40

Pass mark of the System Analysis Design :40

Course

- public Course(String courseID,String courseName)

```
Course Available
Course ID :NS001   Course Name :BA(Hons) Creative Multimedia
Course ID :NS002   Course Name :BSc(Hons) Computer Science
Course ID :NS003   Course Name :BSc(Hons) Computer Networks
Course ID :NS004   Course Name :BSc(Hons) Business Science
```

Module

- public Module(int modelNo,String moduleName,String semester)

```
Module number :442 -- SEMESTER : One -- Module Name :Programming
Module number :441 -- SEMESTER : One -- Module Name :Database
Module number :444 -- SEMESTER : One -- Module Name :Personal Computing
Module number :551 -- SEMESTER : Two -- Module Name :Mathematics
Module number :552 -- SEMESTER : Two -- Module Name :Information System
Module number :553 -- SEMESTER : Two -- Module Name :System Analysis Design
```