

# COM102 - Programming II (Java)

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## **CW2 – Additional information**

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# PSA2 - requirements

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- The application must allow for up to a maximum of 20 students to be enrolled on the course.
- When the program is started, it should read from these standard text files to pre-populate the application with any previously stored data as a starting point
  - Please pre-populate the application with **19 students** enrolled.
- Functionality
  - Add, delete, search, save, report the details of a course
  - Validation: *if any of the data fields for a given student are left blank, that student's full details will NOT be saved*
- The adoption of object-oriented principles
- A structured approach to testing

# PSA2 – Marking criteria

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## Assessment criteria:

- Structured, commented and readable code (20%)
- Program executes according to specification (20%)
- Appropriate use of variables (20%)
- Implementation of suitable program control structures, classes and methods to solve problem (20%)
- Structured approach to testing (20%)

# PSA2 - Testing

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- The testing should be "Black-Box" testing, system level.
- In other words, it is testing of the final completed product.
  - The purpose of this testing is to verify that the system includes all the features (requirements) specified in the assignment brief and that all of those features work properly (or don't as the case may be and a test would confirm).

# PSA2 – test cases

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- A set of test cases should be developed to cover all the features/requirements
- A basic test case should include
  - Test case No
  - Description
  - Data
  - Expected results
  - Actual results
  - Status (pass/fail)

Test case #	Test Description	Test Data	Expected result	Actual result	Pass/Fail

# PSA2 - Deadline

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- Submission deadline
  - Monday 19th April 2021 at 3:00pm
  - If there are any extenuating circumstances beyond your control which prevent you from submitting your work by the deadline, you would need to submit an EC1

# PSA2 – Team declaration form

## Pair-assessment for COM102 Assignment hand-in

Group ID: \_\_\_\_\_

Please assess your contribution to the preparation of the solution to the COM102 assignment in relation to that of your other team member.

Did each of you contribute equally? If so, each team member will be given an equitable apportioning of the marks. For non-equitable effort, those contributing less than their fair share will receive a scaled mark accordingly.

Allocate a mark for each member of your team. Ensure that the marks together total 100.

Group Member	% Contribution	Signature
	TOTAL = 100%	

What particular responsibility/tasks did each team member undertake during the preparation of the assignment solution?

Date: \_\_\_\_\_



Your submission will not be awarded a mark unless a team declaration form has been received.

# PSA2 – Team declaration form

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- The project mark is the highest mark each member can obtain
- For any submission deviating from an equal split in the effort, **those contributing less than their fair share will receive a scaled mark accordingly.**
  - An example – if a student only contributes 30% to the solution which is awarded 70 out of 100 based on the marking scheme, his CW2 mark is calculated as below

$$70 \times \frac{30}{50} = 42$$



# PSA2 - report

- The following two items must be included in your report in which both names and student IDs must be clearly marked
  - A set of test cases covering all the requirements
  - A summary table outlining the code examples of where each requirement can be found as shown below

Table 1: Code examples of where each requirement can be found

Requirement	Implemented (Yes/No)	Filename	Relevant Line of Code
Ability to pre-populate the application with any previously store data			
Report the details of the course on the screen			
Ability to add a new student to the course			
Ability to delete a student from the course.			
Ability to search for a student by name and display the details on screen			
Changes all stored to files			
The application must allow for up to a maximum of 20 students to be enrolled on the course.			
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## ■ Submission format

- The work should be submitted as a zip file **called YourGroupID.zip** containing the NetBeans project folder and all associated sub-folders for all source code (.java), compiled files (.class) and IDE project files, plus a Word document file containing the test plan and results and a summary table
- A **team declaration form** must be completed to indicate each team member's agreed percentage contribution to the submitted solution.
- If the work is completed in pairs, then only ONE copy of the work should be submitted, with both names and student IDs clearly marked on all the submitted work
- In addition to submitting the full NetBeans project, you **MUST** also copy the Java source code for all your classes into a separate pdf file – this is for use by moderators. Include this .pdf in your submission as a separate file.

# PSA2 – After the submission

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- Due to current situation, no demo is required
- The demonstrators will download your code from BBL and run it on his/her machine
  - This will be used to mark the “program executes according to specification” marking criterion
  - **Very important – you must make sure the work you submit can be open/run in NetBeans IDE 8.2 and do not use the absolute path to a file**
    - Please use the current working directory - You can determine the default path by including the following line of code in your program:

```
System.out.println(System.getProperty("user.dir")) ;
```

# PSA2 submission – A summary

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- The following items need to be submitted by **Monday 19th April 2021 at 3:00pm**
  - A zip file called **YourGroupID.zip** containing
    - the NetBeans project folder and all associated sub-folders for all source code (.java), compiled files (.class) and IDE project files
      - **Please pre-populate the application with 19 students enrolled.**
      - **Do not use the absolute path to a file**
    - A report contains the test plan and results plus a summary table outlining the code examples of where each requirement can be found
  - A team declaration form
    - Your submission will not be awarded a mark unless a team declaration form has been received.
  - A separate pdf file containing you Java source code for all your classes

# The lab arrangement for Weeks 10-12

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- Normal lab arrangement for Weeks 10 and 11
- Week 12 lab session will be used for those who have EC1 approved and need to do a first-sit on PSA1

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