

Z02DT – Software and Databases

Worksheet

Software Testing

**oBJECTIVES and guidance**

# Learn about Software Testing.

# Once you complete this worksheet, please make sure you submit it to Aula.

1. **Software testing (black or white box testing)**

**Tick the correct box**

|  |  |  |
| --- | --- | --- |
|  | **Black-Box Testing** | **White-Box Testing** |
| **Requires Knowledge of the internal workings of the application.** |  |  |
| **Code-based testing.** |  |  |
| **Performed by end-users** |  |  |
| **More Time-consuming** |  |  |
| **Cost more** |  |  |
| **Suited for algorithm testing** |  |  |

1. **Software testing types**

**Fill in the following:**

|  |  |  |
| --- | --- | --- |
| Testing level | Who should carry out the test (Developers, Users,…etc) | Testing type (White/Black Box) |
| Unit Testing | **Software developers** | White Box  Black Box |
| Integration Testing | **Integration tester or test team** | White Box  Black Box |
| System Testing | **Specialised testing team** | White Box  Black Box |
| User Acceptance Testing | **End users** | White Box  Black Box |
| Performance Testing | **Performance testers** | White Box  Black Box |
| Usability Testing | **The designers, developers, managers and CEOs** | White Box  Black Box |

1. **COURSEWORK – REPORT (Software testing)**

This task is part of your coursework report writing.

* As stated in the assignment brief, your report should include a reflection/evaluation of the effective use of software testing within your project, in your own words write up to 150 words to include:
  + Brief description of software testing
  + What types of testing have you conducted (are you planning to conduct) for your project and why?
  + Reflect on the effectiveness of that choice: why you made that choice and not the others and what would have happened if you had chosen other options.
  + What would change next time?

Notes: make sure you use APA in-text citation and referencing, also use proper academic writing style. It is recommended to use [Google Scholar](https://scholar.google.com/), [Locate](https://locate.coventry.ac.uk/cuc), and [Bibliu](https://bibliu.com/app) to better utilize credible academic resources.

|  |
| --- |
| Software Testing (up to 150 words): |
|  |
| References (in APA referencing Style): |
|  |

1. **Fill in the tESTING LOG/TESTING PLAN FOR YOUR ASSIGNMENT**

**Test Logs/Test Plan Template:**

<https://files.cug-coventry.aula.education/e7d418a2f4b64462112ee04e77df67d6test_plan_log_template.xlsx>

**Make sure you also complete the requirement catalogue sheet using FURPS and MoSCoW:**

<https://files.cug-coventry.aula.education/49cab46497d404a8cc7a1836c98df9a4requirementscatalogue.xlsx>

**You can also use this template for the requirement catalogue:**

<https://files.cug-coventry.aula.education/985490a37152afdf3c0ec7818d702c72furps___moscow_analysis_2.xlsx>

1. **Usability Testing qUESTIONNAIRE**

**Using any of these two templates, perform an initial usability questionnaire with the person sitting next to you, so you can test the usability of their application and they can test the usability of your application:**

**SUS:** [**https://files.cug-coventry.aula.education/2219eaa6b45c1c06d855578ff9ba6758sus\_\_\_a\_usability\_scale.pdf**](https://files.cug-coventry.aula.education/2219eaa6b45c1c06d855578ff9ba6758sus___a_usability_scale.pdf)

**PSSUQ:** [**https://files.cug-coventry.aula.education/1257efa71840800d6099df0a42131d75pssuq\_questionnaire.pdf**](https://files.cug-coventry.aula.education/1257efa71840800d6099df0a42131d75pssuq_questionnaire.pdf)

**Add the result here for the usability testing of your application:**

|  |  |
| --- | --- |
| **Approach used** | SUS OR PSSUQ? |
| **Tester Name:** |  |
| **Test Date:** |  |
| **Score:** |  |
| **Rating and further interpretation:** |  |

**Extra Activity:**

1. **Watch the following videos on software testing**

**Verification & Validation (A Software Testing Approach)**

<https://youtu.be/PVmxp7BG5I4?list=PL9LePb8sgBI92O8tKtaUPNvK5YWTv6-pL>

**Fundamental activities of software engineering**

<https://www.youtube.com/watch?v=Z2no7DxDWRI>

**Software Testing Training - V Model**

<https://www.youtube.com/watch?v=zzPDHqR2qhU>