

SWDQ Assignment

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SRS Document

**Conor O’Mathuna - B00074979**

**Aiden Barrett – B00075033**

**Piotr Barycki – B00069188**

***Department of Engineering***

***School of Informatics & Engineering***

***Institute of Technology, Blanchardstown***

***Dublin 15.***

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# Software Requirements

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| --- | --- |
| Requirement ID | SRS-1 |
| Title | Multiple choice questions |
| Description | Each question should have 4 possible answers to choose from, one of them must be correct |
| Version | V 0.1.0 |

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| Requirement ID | SRS-2 |
| Title | Multiple quiz attempts |
| Description | Student is able to attempt the quiz multiple times once they finish current attempt |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-3 |
| Title | Question choice |
| Description | Quiz will randomly choose 10 questions from the question bank |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-4 |
| Title | Admin access to student profiles |
| Description | Admin has access to every students profile |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-5 |
| Title | Quiz report display |
| Description | Quiz report is created after each quiz attempt and is being displayed to the student |
| Version | V 0.1.0 |

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| Requirement ID | SRS-6 |
| Title | Saving quiz results |
| Description | Quiz report is being saved to students profile after each quiz attempt |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-7 |
| Title | Question modification |
| Description | Admin can access questions in the question bank and edit them |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-8 |
| Title | Login verification |
| Description | On logon, software verifies if credentials belong to student or admin |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-9 |
| Title | Student access |
| Description | Student can access only their own profile |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-10 |
| Title | Class report |
| Description | Admin can create a report of all students in class |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-11 |
| Title | Question bank |
| Description | Questions are stored in and read from a text file |
| Version | V 0.1.0 |

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| --- | --- |
| Requirement ID | SRS-12 |
| Title | System login |
| Description | User can only log in to the system if valid credentials have been entered |
| Version | V 0.1.0 |

# Software Test Procedure

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| --- | --- | --- | --- |
| Test ID | Description | Expected Result | Actual Result |
| SRS-1 | Verify that all questions have 4 answers to choose from and one of them is correct | Each question has 4 answers to choose from and one of them is correct |  |
| SRS-2 | Verify that student can make another attempt after they finish current one | Once the quiz is finished and quiz report is displayed, student can attempt quiz again |  |
| SRS-3 | Verify that quiz gets 10 random questions from question bank | Quiz reads 10 questions from the question bank and the questions are not in the same every time the quiz is attempted |  |
| SRS-4 | Verify that admin can access every students profile | Admin is able to view every students profile |  |
| SRS-5 | Verify that a quiz report is created and displayed to the student after each quiz attempt | Quiz report is created and displayed on screen after each quiz attempt |  |
| SRS-6 | Verify that subsequent quiz results are saved in student profile | Each quiz report result is saved to the student profile |  |
| SRS-7 | Verify that admin can access question bank and modify the questions | Admin can access and edit the text file containing the questions |  |
| SRS-8 | Verify that system distinguishes between admin and student credentials | System has an access to a file with all possible admin and student credentials |  |
| SRS-9 | Verify that student has access to their own profile and not anyone elses | Student only has an option to view their own profile |  |
| SRS-10 | Verify that admin can create a class report based on all students profiles | Admin can create a file with all student profiles containing all of their results up to date |  |
| SRS-11 | Verify that questions are stored in form of a text file and program can read them | Program reads questions from a text file located in the quiz directory |  |
| SRS-12 | Verify that system logs the user in only if right credentials have been entered | If invalid login credentials have been used, the user is returned to the main login screen |  |