

Software Testing

Portfolio

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1 LO1 Weight: 25% Mark: 12/20

1.1 Range of requirements... Mark: 3

My requirements document and portfolio combine to provide an extremely diverse and wide range of requirements that may be tested in our program to ensure proper functionality. This section is well developed. Also includes relevant stakeholders which may influence some requirements.

1.2 Level of requirements... Mark: 3

I discuss the relevant levels of requirement to my program, pointing out where various requirements may be tested for.

1.3 Test approach... Mark: 3

I have provided a relevant discussion on potential testing approaches for the requirements of the program as well as included some aspects which are not necessary or a priority to test.

1.4 Appropriateness... Mark: 3

I focus on the relevancy of the unit testing requirement I have laid out, as well as arguing testing validity at run time is completely necessary. I look at the difficulties arising in our testing approach and discuss their implications.

2 LO2 Weight: 25% Mark: 9/20

2.1 Test plan - Mark: 2

The test plan outlined in the document provides a detailed implementation which can be used to ensure the requirements laid out in the requirements document. We ensure to discuss the omissions within the plan and portfolio and we successfully manage to cover a wide range of requirements within our plan for testing. The plan discusses a plan for many areas of requirement.

2.2 Evaluation of plan - Mark: 3

I discuss in the test plan document the pros and cons of the testing approaches being discussed and explain how the ones I have outline further the success of the project, and suggest some ways in which the currently unaddressed issues may be addressed in the future.

2.3 Instrumentation of Code - Mark: 2

The portfolio refers to the details of scaffolding within the test planning document. These details are layered through this document. More detail could be provided on instrumentation.

2.4 Eval of Instrumentation - Mark: 1

The test planning document discusses the necessary scaffolding to achieve a certain level of performance from the program for testing purposes. Sections on instrumentation are not very detailed and could be improved significantly.

3 LO3 Weight: 25% Mark: 10/20

3.1 Range of techniques - Mark: 3

I have made use of a range of techniques in order to correctly verify the requirements we are trying to ensure.

3.2 Evaluation Criteria - Mark: 2

I have mentioned some of the testing approaches discussed in the test plan document and discussed why these are important tests to carry out in order to achieve the criteria of being a valid Sudoku. I also provide discussion on why this is important. I have also included discussion on the shortfalls of the testing carried out. These criteria could be more detailed/specific.

3.3 Results - Mark: 3

Our results of tests document outlines in a very detailed way the outcomes of the tests and the errors which they aided in finding and resolving.

3.4 Evaluation of Results - Mark: 2

This section discusses the impact of the evaluation criteria and how well it aligned with the reality of the project. This section could be improved, perhaps with a better section 3.2.

4 LO4 Weight: 20% Mark: 9/20

4.1 Gaps and omissions - Mark: 2

I believe I have provided some of the major omissions and potential limitations of the current testing approach and described why this is the case.

4.2 Target coverage/performance levels - Mark 2

I have described what an adequate test coverage would look like and some vague performance levels of the testing approach. These could be more detailed and measurable qualities.

4.3 Comparison - Mark: 2

I make some comparisons between the testing which was carried out and how far it goes to achieving the target goals. This section could be more detailed.

4.4 Improvements - Mark: 3

I believe I have done a good job in discussing how we can elevate the software approach in place and improvements we can make. I have discussed a variety of changes to be made in order to achieve our target levels of functionality.

5 LO5 Weight: 15% Mark: 8/20

5.1 Review - Mark: 2

I discuss the current shortfalls of the current functionality of the code, and outline these as the next steps to target. I have discussed code review techniques which may be applied and applied them in a basic format. This is not very in depth and could be improved with greater emphasis placed on code review.

5.2 CI Pipeline - Mark: 2

I have described the steps that must be taken in order to generate a viable CI pipeline for the Sudoku project.

5.3 CI Functions - Mark: 2

I have provided a relevant discussion on how the CI pipeline would function and what errors it would resolve in our project.