

PROJECT BOOKLET

Web Application Development in .NET and HTML (ICT-DIT-4002-1.1)



SUBMISSION OF WRITTEN ASSIGNMENT

Candidate's Full Name as per NRIC/FIN	
Trainer/Assessor Name	DAVID MARK PAPKIN
Submission Date	13/09/21
Class Code	CC-HE-WAD-XXXX-0X
TSC Code and Name	Web Application Development in .NET and HTML (SF) (ICT-DIT-4002-1.1)

Candidate's Declaration

1. I declare that I fully understand the whole assessment process as briefed by the Trainer/Assessor on this date.
2. I hereby declare that I am the sole author to the answers provided and there is no involvement to any plagiarism.
3. I have not allowed, and will not allow, anyone to copy any of my answers with the intention of passing it off as his or her own work.
4. I understand that if I have been found to be untrue in my declaration, I will be considered as Not-Yet-Competent (NYC) in this module.

Feedback for Candidate

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Assessment Results	<input type="checkbox"/> Competent (C)	<input type="checkbox"/> Not-Yet-Competent (NYC)	
Candidate's Name		Candidate's Signature & Date	
Assessor's Name	DAVID MARK PAPKIN	Assessor's Signature & Date	

Project

You are to design a web page on either Windows or Mac OS using HTML. Please save your pages into a folder for submission. Your webpage must include:

1. Tables
2. Text
3. List
4. Links
5. Images
6. Built-in form objects that use input validation. This helps decrease vulnerabilities in your code.
7. Signs of CSS property usage for color, text, boxes, lists, tables, forms, layout and images

A word document needs to be submitted that comprises of the following content:

1. The type of server, scripting and mark-up languages chosen and reasons why for the web page you designed

<https://www.upguard.com/blog/iis-apache>

<https://4db.github.io/2016/07/14/differences-between-web-servers/>

<https://www.itgeared.com/articles/1230-choose-programming-language-for-your-website/>

<https://www.programmersought.com/article/93341178626/>

2. An outline of the development of advanced applications in line with design specifications, utilising a range of tools, methodologies, programming and externally developed codes

Which methodology? Agile or Waterfall?

One of the differences between agile software development methods and waterfall is the approach to quality and testing. In the waterfall model, work moves through Software Development Lifecycle (SDLC) phases—with one phase being completed before another can start—hence the testing phase is separate and follows a build phase. In agile software development, however, testing is completed in the same iteration as programming. Another way of looking at it is “Agile: make it up as you go along. Waterfall: make it up before you start, live with the consequences”

<https://www.xpand-it.com/blog/top-5-agile-methodologies/>

https://en.wikipedia.org/wiki/Agile_software_development#Agile_vs_waterfall

Any tools? Code editors, etc**Visual Studio, Visual Studio Code, Notepad++**

<https://stackify.com/software-deployment-tools/>

3. The list of various software testing techniques used and software tests according to the application properties of interest.
Static Application Security Testing (SAST)
[https://owasp.org/www-community/Source Code Analysis Tools](https://owasp.org/www-community/Source_Code_Analysis_Tools)
 - 1) Automated Source Code Analysis (Static Code Analysis) (SCA) – Uses source code analysis tools.
 - 2) Manual Source Code Review - Manually inspecting the code line by line.
4. The list of types of software or application testing techniques, and pros and cons of various test
[https://owasp.org/www-project-web-security-testing-guide/assets/archive/OWASP Testing Guide v1.pdf](https://owasp.org/www-project-web-security-testing-guide/assets/archive/OWASP_Testing_Guide_v1.pdf)
 - Manual Inspections & Reviews
 - Threat Modelling
 - Code Review
 - Penetration Testing/Black box
5. The list of multiply debugging techniques and tools and suitability for different contexts
<https://ryanstutorials.net/software-design-and-development/debugging-techniques.php>
6. At least three types of application issues, errors or problems that can occur and the suitable debugging tools and techniques
<https://www.softwaretestinghelp.com/types-of-software-errors/>
<https://www.cs.cornell.edu/courses/cs312/2006fa/lectures/lec26.html>
7. At least two complex or less commonly encountered errors in applications
<https://textexpander.com/blog/the-7-most-common-types-of-errors-in-programming-and-how-to-avoid-them>
8. An attachment of the lines of programme code.