

Daffodil International University Faculty of Science & Information Technology Department of Computer Science & Engineering

Mid Examination, Summer 2025

Course Code: CSE415, Course Title: Web Engineering Level: 4 Term: 2 Batch: 61

Time: 01:30 Hrs

Marks: 25

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

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1.		"The World Wide Web is an application using the Internet to transmit		
	_	information."		
	a)	to the internet and the world	[2.5]	
		Wide Web.		
	b)	A non-technical client wants a new e-commerce website. They give you the	[2.5]	CO1
		following two requirements:	,	
		- Users must be able to create an account and log in.		
		- The website must be very fast and easy to use		
		Identify Functional Requirement and Non-Functional Requirements		
2.	a,		[2]	
	b)	What does it mean for HTTP to be a "stateless" protocol? How does this	[3]	CO3
		statelessness impact the user experience on a modern e-commerce site?		
3.		You are creating a "Device Registration" form for a company's new product		
	-	line. The form requires a device name, a unique serial number, serial number		
		confirmation and other necessary information. You must implement client-side		
		validation to guide the user before submission.		
	a)	Write the HTML code for the registration form. Analyze and apply necessary	[5]	1
		information to the structure.		
	b)	Write the CSS rules needed to provide visual feedback for the validation. Your	[4]	1
	5.	CSS must include a rule to provide a basic, readable layout, error status with	1	
I		color to any input field that fails validation.	1	co
	c)	Describe the logic and write the function structure for validating the form	[6]	100
	- 1	upon submission. You must ensure-	101	
	- [i. On form submit, prevent default and validate		
1		ii. Device Name: required → else show "Device Name is required."		1
ı		ii. Serial Format: must be XXXX-YYYY → else show "Invalid Serial		
	1	Number format. Must be XXXX-YYYY"		
-		v. Match Serial: confirm matches → else show "Serial Numbers do not		
1		match."		