

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AY: 2025-26

Class:	TE-AIDS	Semester:	A
Course Code:	c 5 C 5 O 2	Course Name:	WC

Name of Student:	Dinya P. Davane
Roll No.:	11
Assignment No.:	01
Title of Assignment:	Apply the fundamentals of web Jechnologies
Date of Submission:	23/7/2025
Date of Correction:	28/7/2025

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
	5	5
Completeness		3
Demonstrated Knowledge	3	2
Legibility	2	10
Total	10	

	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Performance Indicator	Exceed Experiment (12.7)	3-4	1-2
Completeness	5	3-4	1:
Demonstrated	3	2	1
Knowledge	2	1	0
Legibility			with the

Checked by

Name of Faculty

: Miss Kshitiya Gharat : Eharat : 28/1/28

Signature

Date

WC Assignment-I

-	
6.1	Explain how DNS works and the process it follows to resolve domain names to IP
	The Domain Names to IP addresses.
Ans	
	The Domain Name System (DNS) is a hierarchical
	and decentralized system used to translate human
	tike www. google. com mis
12 14	Machine-readable IP addresses (like 142.250.183.68).
11 - 10	Since computers use IP addresses to identify each other
	er on the internet, DNS plays a critical role in
	enabling user-friendly internet parigation.
*	DNS Resolution Process:
	1) User Requeste a Website:
	When a user enter a domain name in their web
	becomeser, needs the IP address associated with that
	domain to connect to the website.
	ii) Check Local Cache;
	The operating system first checks the local DNS rache
F 4 1	to see if the IP address is already, stored from a
10151	berevious lookup. If found, it is used immediately.
	LINE TO POSITIVATIVO K COUNTY
	de not in the local tuche, in teques is
1,	NNS WILLIAM TUSTONE TO THE TOTAL TO THE TOTAL TO
	susponsible for tracking down the IP address by
	alleving other DNS server.
t and the same of	e contact Root DIVS server.
** 1	LOS CONTRACTOR OF THE STATE OF
	how the single full the final I let responds with
A TRANS	the address of a Job-Level Pomain (TLD) service.
innathe ·	1) contact TLD NNS server;
a prosen	The resolver then contacts the TLD server, which
h 1 D	Ine restore
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provides the 1. sass	ress of the purportabline of
sever for the domain	neur of the outhoristoline of
ste 5 to et a to the same	
	*
i i i i i i i i i i i i i i i i i i i	
Q.2 compare the two protocs	de used for formatting and
transmitting the message	ie over the internet with ree
at to encryption, auth	ele used for formatting and se over the internet with resention, integrity and
application	/ 11
one The HTTP (Hypertext	Junefer Protocol) and HTTPS over SSL/TLS) are two
CHTTP secure or HTTP	over SSL/TLS) are two
commonly used Internet	communication protocols.
all income and the	Thirties to form
Aspect HTTP	HTTPS
i) Encuption Not-enough	ted. Data Enoughted wing
ie transmit	ted in SSL/TLS. Protecte
plain text	making data from
it sulners	He to interreption during
wans droppi	ng. transmission
i) dicthentication No mechani	ism to liver digital contilis
wify the	
of the webs	
10 ne more	and the same
iii) Integrity Data can be	modif- ensure data integrit rupted by my temponing
uid or cov	rupted by any tempering
dwing tro	nemissi. is detected and
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ride This war	nauve
	Application Used for general Used for secure bar levouesing where applications like bar security is not a king, online shopping concern. concern. data transfer.
Q.3.	1. Me method to retreive
	the resource, viente new resource, repatite is modify the resource and delete the resource while using the REST style.
Ans.	REST [Representational State Transfer): The REST is an architectural style used for designing
•	networked applications. It uses standard HTTP methods to preform operations on resources, which are identified by UFL's
* i)	Rétrêue à Resource:
•	HTTP Method: GET Used to fetch / read data from the server.
•	example:
11)	GET/ Users / 101 returns setails of user heath ID101 Deate a New Resource;
•	Used to vede a new resource on the survey.
Sundaram	Sends data in the request body. FOR EDUCATIONAL USE
The standards	

	Example:
•	POST/ users vecates a new nesource on the senser
;;;)	update a Resource:
111	WITE Melhod : GFT PUT
•	used to Jach /seed data from the source.
•	Sale and idempotent
	Requires complète data
•	gaamble:
	PUT/ users / 101 replaces user 101's data with the new
,4 1	data
(v)	
	HTTP method: PATCH.
•	used to partially update a resource.
•	only the modified field are sent.
, , , 4 :	Example:
	PATCH / users / 101 updates only specified fields of users
5.46	10
V)	
	HTTP method: DELETE
	Used to remove a resource from the service
	Example:
	DELETE / users/ 101 deletes user 101.
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