	Calend A Language A South
15 91	JSSTGNMENT NO:-2
	tim & Develop a web application using garascript to
-#	Schools. Cookies, DOM. restorm validations such as checking
-	tox empliness, only numbers for phone number, special character
318	deallaction for Dashing Really expressions for costing
	toomat of the fields etc. Use the mysal database.
2	Objectives 3-
17	To under what from validation is.
2)	To learn basic functioning of DOM objects. To learn how to apply various techniquies to implement it.
31	To leaso how to apply various techniquies to implement it.
1k	Theory :- no timil said toffe out timil said (1)
	Explain the vole of regular expressions. Why one they a Suitable tool for validating data formats like a phone
	Suitable tool for Validating date toomass like a phone
183	number or checking for the presence of sperific characters:
133	a passwood?
7	Role of Regulas Expressions
	Regular expressions are patterns used to match character
	Combinations in strings. They on ideal for data validation because:
1	
	They allow precise makking of formats, eg phone numbers.
1	email and password.
1	one special chas", "matches a pasticular pattern"
	They can enforce rule 19the "only digits". "Contains at least one special chas", "matches a pasticular pattern". Regex is compact, poweful and highly customizable for input validation.
1	Validation.
1	

G2]	Explain the fundamental difference between a session and a				
	Cookie in the context of web application development. Have				
	do they work to	gether to maintain a c	oses's logged in State?		
C	Treng garage soft &	astallaga documental	MOC SOME		
s check	do 1-15 pect	Session Mess	Cookie		
magica	thirthey special	is a repulsed fox phy	another with		
U.	Storage	Server - Side	Client - Side [browser]		
A STATE OF THE STA	CANDATON THE ON	the fields of the the	An Annoch The		
مرا	Lifespan	Until browser closes or	Can persist for lays		
**		Session ends	or longer.		
31	Secretaria	That from nathlessee	Phone of the		
neat th	along the second of	More secure data not exposed to Chent	Les sewe storce		
		CAPOSED TO CHENT	on client side		
4	Size Limit	No Stoict size limit on	19mg heal 51.407		
y a		Senes do so	AL OSLAND (1		
	make the a pack	the deliberation does the	land co all lands		
15.5	Porpose	Store sensitive uses data	Store less sensitive into		
		& state	19the preferences		
. 1	How they wook together:				
e et e	Cookies can store a session ID on the client which the				
30,700	Sessues uses to adentify the session date stored on the serves				
bess	and a sandar As	The logged in State.	heanse :-		
Q3	3) What is the o	wordse of performen L	La 100 1 100		
173	Serves side validation? Describe a scenario and				
	Solely on client side validation could lead to sound				
1	Serves uses to glentify the sersion data stored on the serves thus maintaining the logged in state. 3) What is the purpose of performing both client side and serves side validation? Describe a scenario where relying solely on client side validation could lead to security vulnerability.				
		V. V.	T Tradidation.		
E PARTIE					

7.	Client - 5ich validation: Provides instant feedback, réduces
	comes love simmonues de XXX vilonos de la la como la c
backen	Server-siche Validation: Ensures security as Client siche Can be by passed or tampered with.
	be by passed or tompered with.
of to	al Sackend: Necesive data, rightabe again then com
	12134 Scenario:
L nom	If only client-side validation is used a malicious use
	can disable Jova script or forge requests with imvalled/
the	con disable Jova script or forge requests with invalid/ malicious data leading to SQL injection, XSS, or other attacks
Q	Provide a simple example of how Jovascript script can
	interact with the DOM to dynamically change the content
	of a web page ofter a user action, such as a form
· An	interact with the DOM to dynamically change the content of a web page ofter a user action, such as a form Submission.
7	<pre><pre>qd =' message ">Hello!</pre></pre>
	< botton onclick = "change Text ()"> click Me
	18) Improved roses experience 2094 Snathing Feedback
10	CSCRIPTION most send that has sound about to
	function change Text() {
	clicked the button 1";
	clicked the button!";
	<1 Script > 20 mod all mod algorith > 100m ps = 1000m ps =
Q	SI Give the steps for connectivity from Front end using HTML CGS JS to mysql.

officer	1) Frontend: Create form in HTM and Collect data
	2) Java script: Optionally validate before submission.
Polo Can	3) Send data: Use AJAX/fetch to send data to backend
	[Node. 93, PHP, Python, etc) games as bossinged ad
	W Backend: Receive data, validate again then connect to
	Mysal. Central distribution
1980 2	5) Mysal: Use a database driver library Clike mysal npm
143	Package for Node. 35) to insert I query data. 6) Response: Backend sends a success I foilure response
	back to frontend.
	All Pamiell A simple example of hew Totalseript scenar
	FAQ33-roads allestangers at MOT all Alles socialist
	21012 7 and 1 Form On 10 10 10 10 10 10 10
GIJ	Write 3 reasons why Form rapidations are important.
7	3 reasons are: - 9/3/ offshe speckers = 69 93 6
	1) Prevents submission of invalid / incomplete data
	2) Improves uses experience with instant feedback.
	3) Protects server and database from malicious input
000	Goodson change Text 2
G2)	Give an example of how to modify an attribute
	value using Dom.
->	Example to modify DOM is:-
ustag	document get Element By Id ('My Input'), set Attribute (Placeholdes'
6	document get Element By Id ('My Input'), set Attribute C Placeholdes', 'Entex your name');
100	

33]	What are the different features of Javascript?
7	· Cleent - soula care-10-
	· Event - driven and asynchronous
	 Client - Side Scripting language Event - driven and asynchronous Supports OOP, functional programming Monipulates DOM
	· Supports AJAX t for asunchronous requests.
	· Supports AJAX! for asynchronous requests. · Supports closures prototypal inheritance.
	(3) (
7	(3)2)