

SAVEETHA SCHOOL OF ENGINEERING SIMATS, CHENNAI

SET-2

2	You are updating a legacy web application to take advantage of modern web standards. The project involves transitioning from an earlier HTML version to HTML5. The goal is to leverage HTML5's new features to improve web development practices and enhance the functionality of web forms. Designing a user registration form for a new web application. The form needs to capture essential information such as name, email, and a message from users. It is crucial to implement	10	C	01	
3	Designing a website that needs to function effectively across various devices and screen sizes. The design should include different types of layouts such as fixed, fluid, and responsive. To achieve this, you need to use CSS techniques like Flexbox or Grid to ensure that the layout adapts well to different screen	10		CO1	cb
4	To create a webpage that offers a seamless user experience across devices, responsive design principles must be applied. This involves using fluid grids, flexible images, and media queries to ensure the layout adjusts gracefully to different screen sizes. For instance, on a desktop, the webpage might display multiple columns with detailed content, while on a smartphone, the same content could stack vertically for easy scrolling. Navigation menus should transform into a hamburger icon on smaller screens, ensuring they remain accessible without taking up too much space. Additionally touch-friendly elements and optimized images ensure fast loading times and a smooth experience on all devices.	10		CO1	
5	Given a scenario (e.g., creating a blog post, a product listing) design a webpage using appropriate elements, tables, lists, an images for optimal readability and user experience. Also describe step-by-step the sequence of HTTP requests an responses that occur when a user accesses a webpage containing multiple resources (HTML, CSS, JavaScriptimages).	d d ge	10	СО	1

Kilineelabec Assignment - 1 fou are updating a legacy like application to bake advantage of Modern web standards The Project involves transistioning from an earlier HTML Version to HTMls. The goal 15 to leverage HTM/s new Verision improve web development Pratices and Enhance the Functionality of Web Joims. 4 html xmlns = "http://www.w3.org 1999/xhtmi's chead> Efitle> legaly web application eltifle> Lmeta http- Equil: " context-type" context: "text htm charseb. "UTF-8"/> estyle type = " fenbless"> · header of background - colows: # 18-18: Tradding: 10Px: 3 · Contest & Packing: 10Pn:] · footer & background - colow : # -f8-f8-f8: Padding 10px; fex-All Ll Styles alked > 100 by and the top of some L body > Ldix class, "header's chis welcome to own websitechis Ldivy 4 divis L div class = "(ortent">.

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Margin- bootlam: 15Px. border - radius: 4px. Front . 5:20 : 16px; in Put ftype="submit"] background - color: # 4CA450; color: white: border, none; Cursor : Pointer. transition: background-color-35 Guse: al styles clhedy Lbody aform action="Isubmit method: "post" ro avalidables Ch2> uses Registration 2/h2>. clabel for : "rame" > Name: clabel>. einput type: "email" id: "Email" nom e: "Enail" required Placeholder " enample @ Exemple. com"> Brian longth = "10" may longth = "500" Place holder: " Eder your mestage here..." emput type: "submit" value: "Requistor's < (-for m) < 1scripts 2 (Bodys < 1 hims.

OwPul:-Registration form Name : melbe de managen be built bouit Email: use cas techniques like treation or Message: _____ the of the elgale type of mentions of consisted user Enferten [Submit 1 M plemen lation using 1561er Define a continen in it a fined with typically * use see Tropenties like wealth "heapth" and inpugn to object out within the fixed would be 3 ranial non a harrison & 190001 & dibies Aud layad: ruse Pencedage - based widths solder fred or correct relatively political

Designing a likebsite that needs to function effective across various devices and screensizes. The design should include different types of layouts such as fined, fluid, and responsive. To achieve this, you need to use cas techniques like flexbon or Grid to ensure the layout adapts will to different screen sizes and maintains a consistent user Eulenience.

Implementation using css:

1- fined Layout:

"Define a continen no ith a fixed width, typically using pri.

* use css Properties like width, 'height', and image to align and size elements within the fined width.

· fixed - container ?
width & (200px;
margin: 0 auto;

Fluid layout:
* use Percentage - based widths for elements,

Ensuring they Empond or contract relative to their

Parent Container.

· fluied container?
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margin: o audo;

* otilize flenbox to creade a flenible grid system that 3. Responsive layout hos the flexbon: adjust based on screen size. Hainer 9 · Flex - container 2 flex. Italy brop; Gred layout. itlex = Hen's no some way to the layout FIEL: 11200PX; 7 CIMPI JAKEDONIS @media (max-width: 768px) & 100 Tresponsiel Responsive 2. Jen: 11 10019 Responsive 3. Responsive 4. 4. Responsive Layout with Grid: * USE CSS (vid to create a more complex layout that Can adjust to differed screen sizes. · grid - continen & bup pagents display: Grid; Grid . template . colums: repeat (3,1fi); gap: 20 Px) on allier - xol @ media (max- width . 768Px) \$ ·grid · containers Grid-template = columns : Ifi; 4 -Average - 10 or bus, pelod

Assignment - 2. 4. To creade a webpage that offers a scampess us Experience across device, responsive design Prinaple must be applied. Add for instance on a desixtop the webpage might duplay mutiple columns with doubly content, while on a smartphones, the same content could stack, vertically for Easy Scotling. Additionally, touch. - Friendly slaments and optimized images shawe took look times, and a smooth Enigerience on all devices. C! DOCTYPE HAMIS 4hml long: "2012 comeda charset = "vif - 8"> emeta name: "viewpoir" content: "width = device-wi initial-5(ale = 1.01) Chille > Responsive webpager Hilles estyles some como tombo of lands is · container & display: grid; & mandanos lange grid-template columns: repeat (3,170); 9ap: 20px) max - width: 120BPx; margin: o ado; . Hon Sunday de de la constante de la Godding 120px; body roud-color: +1-flotily

ing & was resident a appeals actions a a movie reight! auto; sequence of terms requests and responses that grown amedia (max-width: 768px) · containers grid-templade- columns: Ifi; nav ws display: none; nav. hamburger' >= 2 ldivs LW> clisea hief = "#" Home clasellis Llioza hief: "# " >About Llaozlio el: >ca hef="#"> contandela>ili> clul> LINANS Ldire class: " zordaine!"> Laur class: "Hem" scarted Black 1 clairs edil class: "Hom" > content Block 2 2 ldivs Ldiv class = "item" > content Block 32 ldivs eldivs 21 bodys val : dibica TROSPONSIVE weblage. OWPW:-Home about service contact coloumn 1 content goes here.

5. Given a scenarion design a weblage using appropriate Elements, tables, lists, and images the optimal readabil and user Emperionce. Also, describe step-by-step-th sequence of HTTP requests and responses that occur. when a user accesses a webjage containing multiple resources (HTML, CSS, Javascript, Groges).

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conclusion! symmarize the blog Post.

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SAVEETHA SCHOOL OF ENGINEERING SIMATS, CHENNAI



Course Code /Title: CSA4399 – Internet Programming Programme : Computer Science and Engineering

ASSIGNMENT 3 QUESTIONS

<u>SET-5</u>

S.No	Questions	Marks	СО	BTL
1	Implementing a feature in a web application that tracks the number of accesses by a client within a single session. You need to use Java Servlets to manage and monitor session data. The application should count how many times the client accesses the application during their session and retrieve information about the session, such as the session ID, creation time, and last accessed time.	20	CO4	3
2	Write a scenario where you had to use JSTL to solve a complex problem and how you went about it. Also, elaborate the function library in JSTL and how to create custom functions.	20	CO4	2
3	A page of stock market quotes uses script to refresh the page every five minutes in order to ensure the latest statistics remain available. 20 seconds before the five minute period expires, a confirm dialog appears asking if the user needs more time before the page refreshes. This allows the user to be aware of the impending refresh and to avoid it if desired.	20	CO5	3
4	You are developing an e-commerce application that needs to integrate with an external payment gateway service. This service is described using a WSDL file. How would you use the WSDL file to integrate the payment gateway service into your e-commerce application? Describe the steps involved in generating the client code, invoking the service, and handling any potential errors	20	CO6	3

Assignment-3

O amplementing a feature in a neb application that tracks the number of accesses by a dient within a single Session using Java services using HHP session object to manage and monital session dada.

servlet code:

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import java-utile Date;

import lavax sorvict servict Enception;

import javax. servlet annotation webservlet:

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Proport javar - served . https:// https:// Response;

Proport javat service http: Https:ssion;

@ webservlet (" Isession Franker")

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responese sel conted Type ("text (html");

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Accessed Time ();

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@ output:-

Session Tracking Example.

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Session created: Mon sep og 12:00:00 957 2024

Last Accessed: Mon sep og 12:01:05 957 2024

No. of accesses in this session:

a complex Problem and Form you went about it. Also, a complex Problem and Form you went about it. Also, elaborate the function library in JETL and how to create custom functions.

JSP code using JSTL. 270 tglib uri: "http://java.sun-com/jsplj5+1/core" prefir="c"xs CTO toglib uni = "http://sava sun combisplistil functions" prefix = "fn" +> 2 html> = head> etitles order management altitles dread 2 booly > zhasorderlist Llhas chorm method: "GET" action: "order isp's clobel for : "status" id = "status"> Eselect name = " status" > filter by status : clabel> coption value="All" > All < loption > coption value = "relivered" > nelivered cloptions coption value = " perding" = mending cloptions 21solet > -; batto Zinput type: "submit "value: "Filter"s 2 forms etable border 3" 1"> Chiles ID 2 Whead zth sorder Jozelth> 2412. who to de 1 th sall more of 100 eth > stadus / th> CH1> 2 Hread > zd body >

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order list.

order ID note status Amount.

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JSTL function Library (fn)

@ crooting constom functions in JSTC

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Page Refrost. (The Page reloads, displaying updated contact). Stack Mailed Budes. - Apple Inc. (ARPL): \$152.00 -Microsoft corp. (MSET): \$250.00 - Alphabel Inc: (GOOGL): \$ 2850.00 1. To integrate an external payment godernent service ento your e-commence application using a NSDL file 1) Generale client code from WSDL. Wsimport - keep-5 src-d bin-p com. Example. Daymentvorbose http:// Example compayment gateway? wsdi) 2) Integrate Generale cade into Application. -Include cremenated code. - configure service Endpoint. 3 Invoke the Payment Service. . creat service instance - land is suit Payment service service = new Payment Service (); Payment port Type Port = service get Payment Ports, · Invoke Methods: (toward belowed - 23) How Payment Response . response = port. Diocess Payment

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OK

4) Handle Response and Errors · chack Residence. if (response. is success) & 11 Hardle succes ful Paymort र होड़ इ 11 Hardle Payment failure · Exception Hardling Payment Response response = Port Process Payment (paymed Request); I catch (so Ap Tani (Exception o) s MHardle soft fourts (eg, maled, request). scotch (web sonvice Enception) & 11 Hardle conneticitivity or configuration errors owput:successful Paymen +:-Payment successful . Transaction 20: 1987 653210. Payment failure (Eg: Invalid Gard Details): Payment failed due to a sorp fault: Invalid. credit Good Octobs. Payment failed due to a soap faut. Sovalid SOAP Faut (eg. Smalid Request)

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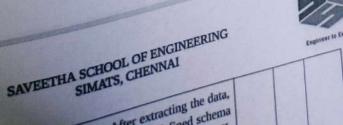
SAVEETHA SCHOOL OF ENGINEERING SIMATS, CHENNAI



Course Code /Title: CSA4399 - Internet Programming Programme : Computer Science and Engineering

ASSIGNMENT 4 QUESTIONS

S.No	Questions	Marks	СО	BTL	7
1	From a developer's perspective, discuss why JDBC is essential in building database-driven applications. How to achieve JDBC CONNECTION pooling using JDBC Data Source and JNDI in Apache Tomcat Server. Provide examples of executing SQL queries using JDBC statements. Discuss the differences between Statement, Prepared Statement, and Callable Statement.	20	COS	3	
2	Describe the lifecycle phases of a JSP page. Explain the significance of each phase in the JSP execution process. Discuss the different ways to embed Java code within a JSP page with examples. Explain the advantages and disadvantages of using scriptlets, declarations, and expressions in JSP.	20	cc	04 2	2
3	You need to develop a PHP program that generates a chessboard using HTML tables. The table should have a total width of 400px, and each cell should have a height and width of 30pt. The chessboard should alternate colors between black and whit for each cell to represent a typical chessboard layout. How would you write a PHP program using nested for loops to creat a chessboard? The chessboard should be displayed using a chessboard? The chessboard should be displayed using the have a height and width of 400px, and each cell should have a height and width of 30px. Explain how you would the nested for loops to alternate the cell colors and ensure the chessboard pattern is correctly displayed. Provide the code chessboard pattern is correctly displayed.	te w te an 24	0	004	2
	this program You are developing a PHP application that reads content from text file and uses regular expressions to extract specific patters. After extract such as email addresses and phone numbers. After extract such as email addresses and phone numbers in a new X the data, the application should store the results in a new X file following a defined schema for the data. Additionally, need to compare and contrast DTD (Document Type Definit need to compare and contrast DTD (Document Type John W. AML Structure. How we are and XML Schema for defining the XML structure. How we would need to compare and contrast DTD (Document Type John W. Schema for defining the XML structure. How we are and we will need to compare and contrast DTD (Document Type John W. Schema for defining the XML structure. How we will need to compare and contrast DTD (Document Type John W. Schema for defining the XML structure. How we will need to compare and contrast DTD (Document Type Definition of the property of the prope	m a ms, ling ML you lion) buld file	20	COS	2





A fter extracting the data, defined schema Assignment-4.

Why Jobe is Essential in Building Dadobase.

Jobs is Essential because it Provides a standard API for jarra applications to interact with database Achieving JBB2 Connection Pooling using TOBA Data source and JADI in Apache Tomost.

Configure Datasource

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using a collable statement for stored Procedures. try (connation conn > Database util-get connection) collable stedement comment = conn. Prepare call () · Call getuser By Id (2)]")) { cotmt-selsont (1,1): Resultset 15 = cotmt. Execute Query (), while Crs. new (1) & system. oud . Prindlin ("user ID2" trs. getInt/" +", Name: "+15 get string ("rame")); 1 - Cherty many this ship as made OWPW: Statement Example output! userIO: 1, Dame: Vishou-User 10:2, Name: Priya Prepared stedement. usen ID:-1, Name, vishou. woodely now rations 19 collable statement. user SD:-1, wame: 116hny. Lifecycle Phases & a JSP Page. 2) 3/1/ 10 63 10kg 1) Translation Phase @ Compilation Phase 3) Initialization Phase 9 Regrest Processing Phase 8) Destruction Phase

Embedding Java code in JSP. O scriptlets. Z-1 int sum = 5+10; 1.> 200 The sum 151. 64 = sum1.0 owput! The sum is 15 heavings at behand responsible at a Declarations: Ly.1 int odd (int a, int b) & return orb;] 1.2 CP> The result is: LY. = odd (3,7) 1. > LIP> OWPW: The result is ! 10. CP7 current time: Ly. = new Java. util. Date ()-1. >CIP> 3 Enpressions current time: Mon sep 09 09:30:00 PDT 2024 OUTPUT 1-Advantages 1- Easy to use for embedding simple Scriptlets! Disadvardages! - leads to messy code, difficult to mantain. Declarations: Advartages: useful for declaring reusable method and variables across multiple requests

(1) is advardages! - Con clutter TSP with Java code, leading to Poor separation of concerns Expressions :-Advantages . Simplifies ownthing dynamic content directly in Jsp. Disadvandeges! limited to Expressions. 3 Generates a classboard using HTML tables with of 400px (total) and each cell h, a height and with of 30px. PhP code: CI. DOCTYPE HAMIS chtml·long 2"ch">. Lhead > cmota charset 2"UTF-8"5 chitle > chessboord affile > cstyle> table & width: 400pu; border-collapse: collapse; to the E of the state of the state and placed width , Bopms height 1 30pm; 218tyles Lbody 5

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PHP Application to Endract Data and store in Steps!-1 Read Content from a Tent file @ Entract Patterns using Regular. 3) create and store Results in an xmittle (4) Define x ML Schema! PHP code: C?Php 's filenome: "input . +nt". & content = file-get-contents (sfilename): Preg-match-all (7. [a-2A-20-a-7.+-]+@[a-2A-20-a-]+ 1. [a-2A+2](2]-1; scortert, semail(s)); Preg-motch-all (4.1+2Co-a] [1.3] [. 15] [[0-9]. 81,43 [-,15]? [0-9] [3,4]14; & content) 18 xm1= new simple xML Element (' Ldota x ldota s') Semail Element = \$ x ML - add child ('Emails'), foreach (semails 6) as semail) { Servail Blanch -> oddchild ("Email, & Email); I phone element = 5 xm L - add child ('phones'); for Each appeares Colas & phone) & & phone Glament of cold child (Phone, & phone);

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