

LAB Exercises

Exercise – 1

Problem Statement: Create the following static web pages for an online book store web site:

1) Homepage:


The static homepage should contain three frames.

Top frame: Should contain logo and college name along with links to Homepage, Login page, Registration page, Catalogue page and Cart page.

Left frame: Atleast four links of branches, which will display the catalogue of respective branch.

Right frame: The pages to the links in the top frame and left frame must be displayed here. Initially, this page contains description of the web site.


Sample output:

 VISHNU Home	Vishnu Online Book Shop			
	Login	Registration	Catalogue	Cart
CSE ECE EEE IT	Welcome to online book shop!			

2) Login page:

The login page contains a username field, password field, a submit button and a reset button.

Sample output:



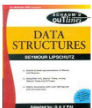

 VISHNU Home	Vishnu Online Book Shop			
	Login	Registration	Catalogue	Cart
CSE ECE EEE IT	<div>Login Form</div> <div>Username: <input type="text"/></div> <div>Password: <input type="password"/></div> <div><input type="button" value="Submit"/> <input type="button" value="Reset"/></div>			

3) Catalogue page:

The catalogue page should contain the details of the books arranged in a tabular format. The details should contain the following:

1. Cover image of the book
2. Author name(s)
3. Publisher
4. Price
5. Add to cart button

Sample output:

 VISHNU UNIVERSITY CONFIDENTIAL EDUCATION		<h1>Vishnu Online Book Shop</h1>			
Home		Login	Registration	Catalogue	Cart
CSE ECE EEE IT	<h2>Books Catalogue</h2>				
	Cover Image	Author Details	Price	Add to Cart	
		Book: C Programming Authors: B. W. Kernighan, Dennis M. Ritchie	Rs.120	ADD TO CART	
		Book: Data Structures Author: S. Lipschutz	Rs.150	ADD TO CART	
		Book: Java 2 Complete Reference Author: Herbert Schildt	Rs. 200	ADD TO CART	

Exercise – 2


Problem statement: Create the following static web pages for an online book store web site:

4) Registration page:

Create a registration form with the following fields:

1. Name (text field)
2. Password (password field)
3. E-mail id (text field)
4. Phone number (text field)
5. Gender (radio buttons)
6. Date of birth (dropdown boxes)
7. Language known (check boxes)
8. Address (text area)

Sample output:

		Vishnu Online Book Shop		
Home	Login	Registration	Catalogue	Cart

CSE ECE EEE IT	<h3>Registration Form</h3> <p>Name: <input type="text"/></p> <p>Password: <input type="password"/></p> <p>Email: <input type="text"/></p> <p>Phone No: <input type="text"/></p> <p>Gender: <input type="radio"/> Male <input type="radio"/> Female</p> <p>Date of Birth: Day: <input type="text" value="1"/> Month: <input type="text" value="Jan"/> Year: <input type="text" value="2004"/></p> <p>Languages known: <input type="checkbox"/> English <input type="checkbox"/> Telugu <input type="checkbox"/> Hindi <input type="checkbox"/> Tamil</p> <p>Address: <input type="text"/></p> <p><input type="button" value="Submit"/> <input type="button" value="Clear"/></p>
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5) Cart page:

Create a cart page with the following information:

1. Book name
2. Price
3. Quantity
4. Amount

Also display the total amount to be paid along with a Make Payment button.

Sample output:


VISHNU
UNIVERSITY OF EDUCATION

Vishnu Online Book Shop





[Home](#)[Login](#)[Registration](#)[Catalogue](#)[Cart](#)

[CSE](#)[ECE](#)[EEE](#)[IT](#)

Cart Items

Book Name	Price	Quantity	Amount
C Programming	Rs. 120	1	Rs. 120
Data Structures	Rs. 150	1	Rs. 150
Operating System Concepts	Rs. 250	1	Rs. 250
Total:			Rs. 520

Make Payment




Exercise – 3

Problem statement: Use external CSS to perform the following on a webpage:

1. Use different font properties.
2. Set the background image for the body of the webpage and as well as for individual elements in the webpage.
3. Control the repetition of the image using the *background-repeat* property.
4. Use the pseudo classes of the anchor element and apply different styles to the hyper links
5. Add customized cursors using the *cursor* property.

Sample output:

About Us



[Vishnu Institute of Technology - VIT Route Map](#)

Vishnu Institute of Technology, the scion of Shri Vishnu Educational Society was established in 2008 and is currently the eleventh educational institution to disseminate education under the aegis of this society. Nascent that it is, it combines in its matrix the lofty idealism of its Founder Chairman the Late Padmabhushan Dr. B. V. Raju, a distinguished industrialist, philanthropist and an eminent educationalist, the experience and vigour provided by the Chairman Sri K.V. Vishnu Raju, a man of holistic vision and his team comprising dexterous administrators, reputed academicians and brilliant line of students. They constantly strive to make the institution join the ranks of prestigious technical institutions.

Campus

The Campus, sprawling over 100 acres, is located in the verdant atmosphere of Vishnupur in Bhimavaram. It is in the very vicinity of the town and is well connected by road. VISHNU also provides hostel facilities to the students who opt for a residential mode of education. The hostels are constantly updated and provide an atmosphere conducive to pursue education.

Hands on Experience

To make the instruction in VISHNU more practical-oriented, special focus is on hands on experience. The Assistive Technologies Lab run in collaboration with the University of U Mass, USA helps students to combine technology with a humanistic outlook. Gadgets for the physically challenged are designed and developed here by the students under the guidance of eminent professors both from the institute and abroad.

VISHNU aims at empowering students with technical skills and can-do entrepreneurial spirit. The IBM Software Centre of Excellence in the campus provides the students with the best of quality technical education there by increasing the skill set of each student and faculty for a great career.

VISHNU also provides the opportunity to work in the Assistive Technologies Lab, where technology is combined with a humanistic outlook by designing and developing gadgets for the physically challenged under the guidance of eminent professors from abroad. The involvement of our students in the development of the automated chair & walking stick for the blind bears testimony to it.

Besides providing opportunities for employment in various reputed organizations, the Placement Cell also assists the students to be industry ready through soft skills training, communications skills programmes, personality development sessions and aptitude are only a few of the programmes to name. In the very year of its inception the college has trained one batch of students in foreign languages in collaboration with Goethe Zentrum, the German Cultural Association.

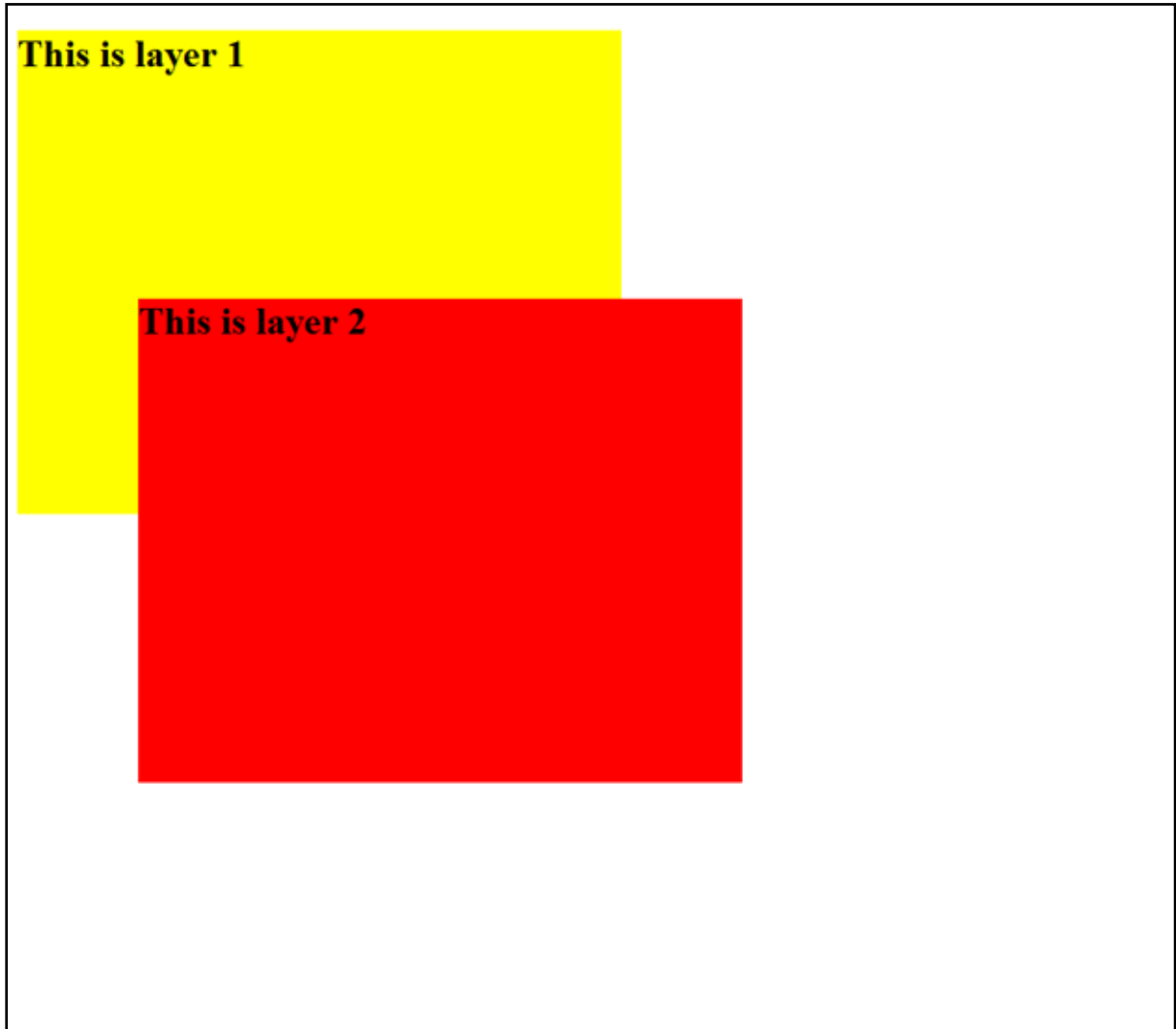
Vishnu FM 90.4 and Vishnu TV Academy

Adding diversity and vibrancy to the academic activities are the Vishnu 90.4 FM Radio and the Vishnu TV Academy. They provide the students the much needed platform to showcase their academic proficiency, communication skills and cultural expertise. The students design and present the programmes here.

Exercise – 4

Problem statement: Using z-index property in CSS, arrange two layers on top of each other.

Sample output:



Exercise – 5:

Problem Statement: Write Javascript to validate the following fields in a registration form:

1. Name should contain alphabets and length should not be less than 6 characters.
2. Password should not be less than 6 characters.
3. Email id should be in a valid format.
4. Phone number should contain 10 digits only.

Exercise – 6:

Problem statement: Using PHP store the following information from a registration form in the MYSQL database:

1. Name
2. Password
3. Email id
4. Phone number

Exercise – 7:

Problem statement: Store the details (usernames and passwords) of four users in web.xml file and write a servlet program to validate the details of the user provided in the login form against the details stored in the web.xml (deployment descriptor) file.

Exercise – 8:

Problem statement: Store the details (usernames and passwords) of four users using cookies and write a servlet program to validate the details of the user provided in the login form against the details stored in the cookies.

Exercise – 9:

Problem statement: Using servlets or JSP and JDBC store and retrieve the following information from a database:

1. Name
2. Password
3. Email id
4. Phone number

Exercise – 10:

Problem statement: Store the details of the users in a database using JSP and JDBC and validate the user details provided in a login form against the details available in the database.

Exercise – 11:

Problem Statement: Create a table in the database containing the columns to store book details like: book name, authors, description, price and URL of the book's cover image. Using JSP and JDBC retrieve the details in the table and display them on the webpage.

Exercise – 12:

Problem Statement: Create a catalogue page containing the book's details like: cover image, book name, authors, description, price and an Add to Cart button. Also create a cart page which shows details like: book name, price, quantity, amount and total amount to be paid. Using JSP display the content in the cart page dynamically by retrieving the data from sessions.