RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105

RAJALAKSHMI
ENGINEERING COLLEGE

CS19542 - INTERNET PROGRAMMING LABORATORY

Laboratory Record Note Book

Name : . . . . . .

Year / Branch / Section : . . . . . .

Register No. : . . . . . .

College Roll No. : . . . . . .

Semester : . . . . . .

Academic Year : . . . . . .

RAJALAKSHMI
ENGINEERING COLLEGE

An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

BONAFIDE CERTIFICATE

NAME .....

ACADEMIC YEAR ..... SEMESTER .....BRANCH.....

UNIVERSITY REGISTER No.

Certified that this is the bonafide record of work done by the above student in the

..... *Laboratory during the year* 20 - 20

Signature of Faculty - in - Charge

Submitted for the Practical Examination held on .....

Internal Examiner **External Examiner**

CS19542 - INTERNET PROGRAMMING LABORATORY

LIST OF EXPERIMNENTS

1a. Program to design a resume using HTML basic elements.

1b. Program to design a class timetable using HTML basic elements.

2a. Create a web page to embed a map along with hot spot and links.

2b. Create a web page using an embedded, external and inline CSS file.

3. Create a registration page along with validations.

4. Create a HTML form for course registration with student name, rollno, gender, year, department, Section, mobile_no, E-Mail_ID, Address, City, Country, pincode. Once a user click the submit button extract the input data using servlet and display that data with proper labels.

5. Consider a Library Management System. Develop a JavaScript program that will validate the controls in the forms you have created for the application. State the assumptions you make (business logic you are taking into consideration).
Note: Your application must access a database using Servlet.

6a. Create a program to change the content of the web page using AJAX.

6b. Create a program to implement the concepts of AJAX for web page with servlet.

7. Create a program to implement the concepts of AJAX for web page with JDBC.

8. Consider a Banking application. Develop a
JavaScript program that will validate the controls in the forms you have created for the application. State the assumptions you make (business logic you are taking into consideration).

9. Write a PHP program for Employee Details, which includes EmpID, Name, Designation, Salary, DOJ, etc., to connect with the database and execute queries to retrieve and update data. Also, prepare the report for single and group of employees based on the end user needs.

Advance concepts:

10. Develop a Simple game using jQuery.
11. Develop an Attractive web pages using Bootstrap.
12. Design a single page application using Angular 9.
13. Design a single page application using ReactJS

LIST OF EXPERIMENTS

Ex No	Date	Title	Staff Signature
1 a		HTML – Basic Elements	
1 b		HTML – Element – Tables	
2 a		HTML – Image Map	
2 b		CSS	
3		Form Validation	
4		Servlet	
5		Servlet-JDBC	
6 a		AJAX- Retrieving Text File	
6 b		AJAX -Suggesting Keywords	
7		AJAX-JDBC	

8		PHP-Employee Details	
9		JQuery	
10		Bootstrap	
11		Angular 9	
12		ReactJS	

Ex. No. : 1 a Reg. No. : 220701055
Date :

HTML – Basic Elements

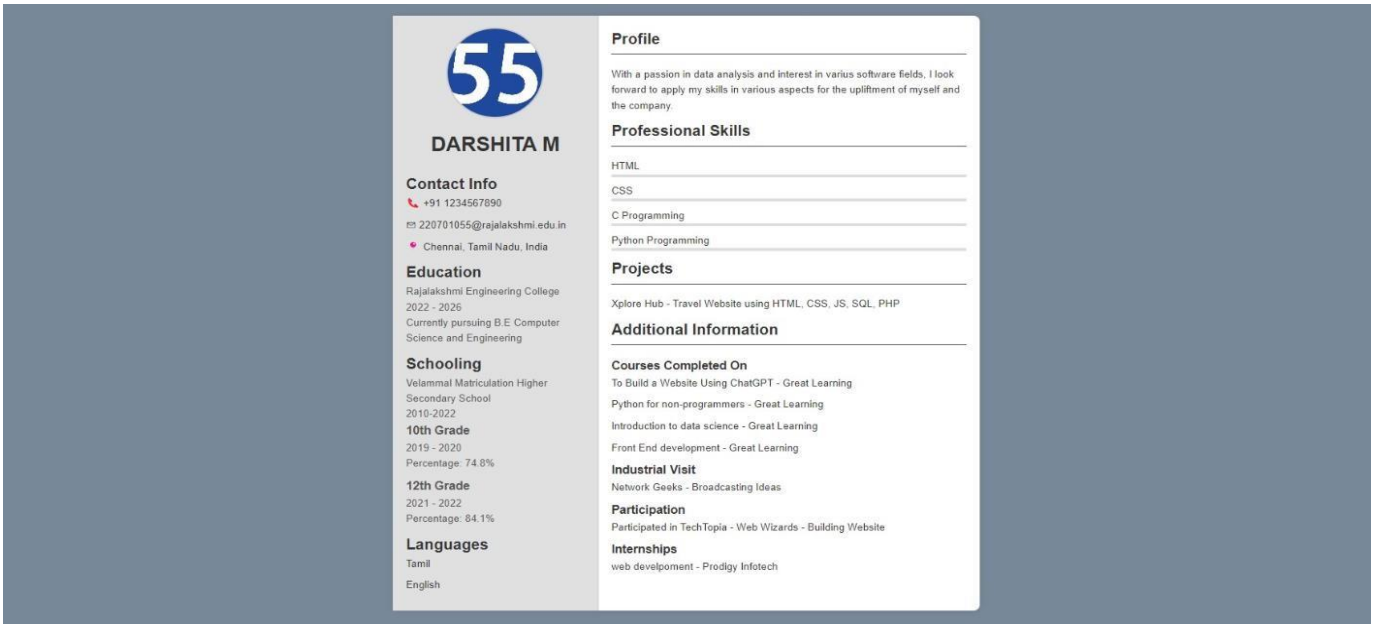
Aim:

Program to design a resume using HTML basic elements table, styles, links and list.

Procedure:

1. Create your resume on a word processor
2. Save your word-processed resume in text (.txt) format.
3. Open your text resume in an editor.
4. Add the required html tags.
5. Tables are defined with the table element. Use the border attribute specifies the table‟s border width in pixels. To create a table without a border, set border to "0". Use the tr element to define an individual table row. The columns in the head section are defined with th elements.

Design:



Result : Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 1 b Reg. No. : 220701055

Date :

HTML – Element – Tables

Aim:

Program to design a class timetable using HTML basic elements.

Procedure:

1. Tables are defined with the table element
2. Use the border attribute specifies the table‟s border width in pixels. To create a table without a border, set border to "0".
3. Use the tr element to define an individual table row.
4. The columns in the head section are defined with th elements.
5. Data cells contain individual pieces of data and are defined with td (table data) elements within each row.
6. Table cells are sized to fit the data they contain. Document authors can create larger data cells by using attributes rowspan and colspan. The values assigned to these attributes specify the number of rows or columns occupied by a cell.
7. Use the attribute rowspan = "2" to allow the cell to use two vertically adjacent cells (thus the cell spans two rows).
8. Use the attribute colspan = "4" to widen the header cell to span four cells.

Design:

TIMETABLE

Day	1	2	15 mins	3	4	5	40 mins	6	7	8
MONDAY	IP	RPA	BREAK	POAI	CN	TOC	LUNCH	CN	RPA	TOC
TUESDAY	RPA			RPA	IP LAB			IP LAB	CN	LIB
WEDNESDAY	CN LAB			CN	NPTEL	VAP		IP	RPA	TOC
THURSDAY	TOC	POAI		COUN	POAI LAB			POAI	CN	IP
FRIDAY	POAI	CN		RPA	CN	IP		LIB	TOC	IP
SATURDAY	TOC	NPTEL		POAI	CN	TOC		IP	RPA	COUN

TIMETABLE FOR 3RD YEAR CSE-A

Result: Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 2 a Reg. No: 220701055

Date :

HTML – Image Map

Aim:

Program to create and use image maps:

i. To embed a map in a web page. ii. To fix the hot spots in that map. iii. Show all the related information when the hot spots are clicked.

Procedure:

1. Define an image maps by using a map element.
2. Use attribute id to identify the image map.
3. Define hotspots with area elements.
4. Use attribute href to specify the link‟s target (i.e.,the resource to which to link). 5. Use attributes shape and coords to specify the hotspot‟s shape and coordinates, respectively. 6.

Use attribute alt to provide alternate text for the link.

7. Use the markup to create a rectangular hotspot (shape = "rect") for the coordinates specified in the coords attribute (For rectangular hotspots, the required coordinates are those of the upper-left and lower-right corners of the rectangle).
8. Use the map area to assign the shape attribute "poly" to create a hotspot in the shape of a polygon using the coordinates in attribute coords (These coordinates represent each vertex, or corner, of the polygon).
9. Use the map area to assign the shape attribute "circle" to create a circular hotspot (the coords attribute specifies the circle‟s center coordinates and the circle‟s radius, in pixels). 10. Use an image map with an img element, the img element‟s usemap attribute is assigned the id of a map.
10. Locate the image map within the same document so internal linking is used.

Design:

INDIA MAP

TAMILNADU

Tamil Nadu, located in the southern part of India, is a state renowned for its rich cultural heritage, ancient temples, and classical arts. The capital city, Chennai, is a bustling hub known for its vibrant culture, Marina Beach (one of the longest beaches in the world), and thriving film industry, often called "Kollywood". Tamil Nadu is steeped in history, with magnificent temples like the Meenakshi Amman Temple in Madurai and the Brihadeeswarar Temple in Thanjavur showcasing exquisite Dravidian architecture. The state is also famous for its traditional music, dance forms such as Bharatanatyam, and culinary delights like dosa, idli, and filter coffee. With its blend of history, culture, and natural beauty, Tamil Nadu offers a captivating experience for visitors from around the globe.

Go Back!

JAMMU AND KASHMIR

Jammu and Kashmir, located in the northern part of India, is renowned for its breathtaking natural beauty and rich cultural heritage. Nestled in the Himalayas, it boasts of snow-capped peaks, lush valleys, and serene lakes like Dal Lake in Srinagar. The region is known for its diverse culture, influenced by Hindu, Muslim, and Sikh traditions, which coexist harmoniously. However, it has also been historically marked by political tensions and conflicts. Despite these challenges, Jammu and Kashmir remains a land of stunning landscapes and warm hospitality, drawing tourists and pilgrims alike from around the world.

Go Back!

KERALA

Kerala, often referred to as "God's Own Country," is a coastal state in southern India known for its lush greenery, tranquil backwaters, and pristine beaches. It is celebrated for its rich cultural heritage, vibrant festivals like Onam and Thrissur Pooram, and classical art forms such as Kathakali and Mohiniyattam. Kerala is also famous for its Ayurvedic treatments and traditional martial arts like Kalaripayattu. With its diverse landscapes ranging from the Western Ghats' mountains to the Arabian Sea's coastline, Kerala is a popular destination for nature lovers, adventure enthusiasts, and those seeking rejuvenation amidst serene surroundings.

Go Back!

RAJASTHAN

Rajasthan, the largest state in India by area, is a land of vibrant colors, majestic forts, and desert landscapes. Known as the "Land of Kings," Rajasthan is steeped in history and royalty, with magnificent palaces and forts like Jaipur's Hawa Mahal, Udaipur's City Palace, and Jodhpur's Mehrangarh Fort showcasing its rich architectural heritage. The state's desert region, Thar Desert, offers camel safaris and glimpses into traditional Rajasthani culture with folk music, dance, and crafts. Rajasthan is also famous for its colorful festivals such as Pushkar Camel Fair and vibrant attire like turbans and ghagras, making it a cultural treasure trove and a delight for travelers exploring India's royal past.

MADHYA PRADESH

Madhya Pradesh, located in central India, is known for its rich history, cultural diversity, and abundant natural beauty. It boasts of UNESCO World Heritage sites like the Khajuraho temples, renowned for their intricate sculptures depicting life in medieval India. The state's capital, Bhopal, is famous for its lakes and historical landmarks such as the Taj-ul-Masajid mosque. Madhya Pradesh is also home to national parks like Kanha and Bandhavgarh, where visitors can spot diverse wildlife including tigers and leopards. With its blend of heritage, wildlife, and scenic landscapes, Madhya Pradesh offers a unique experience for travelers seeking both cultural insights and natural wonders.

Go Back!

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Evaluation Procedure	Marks awarded
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Faculty Signature	

Ex. No. : 2 b Reg. No. : 220701055

Date :

CSS

Aim:

Program to design web pages using basic elements, hyperlinks and to perform web navigation using CSS.

Procedure:

Inline Style Sheets

1. Create inline styles that declare an individual element's format using attribute style. 2. Apply inline styles to p elements to alter their font size and color.
3. Use the attribute style to specify the style for an element.
4. Create CSS property (the font-size property) followed by a colon and a value. 5. Use the two properties, font-size and color, separated by a semicolon.

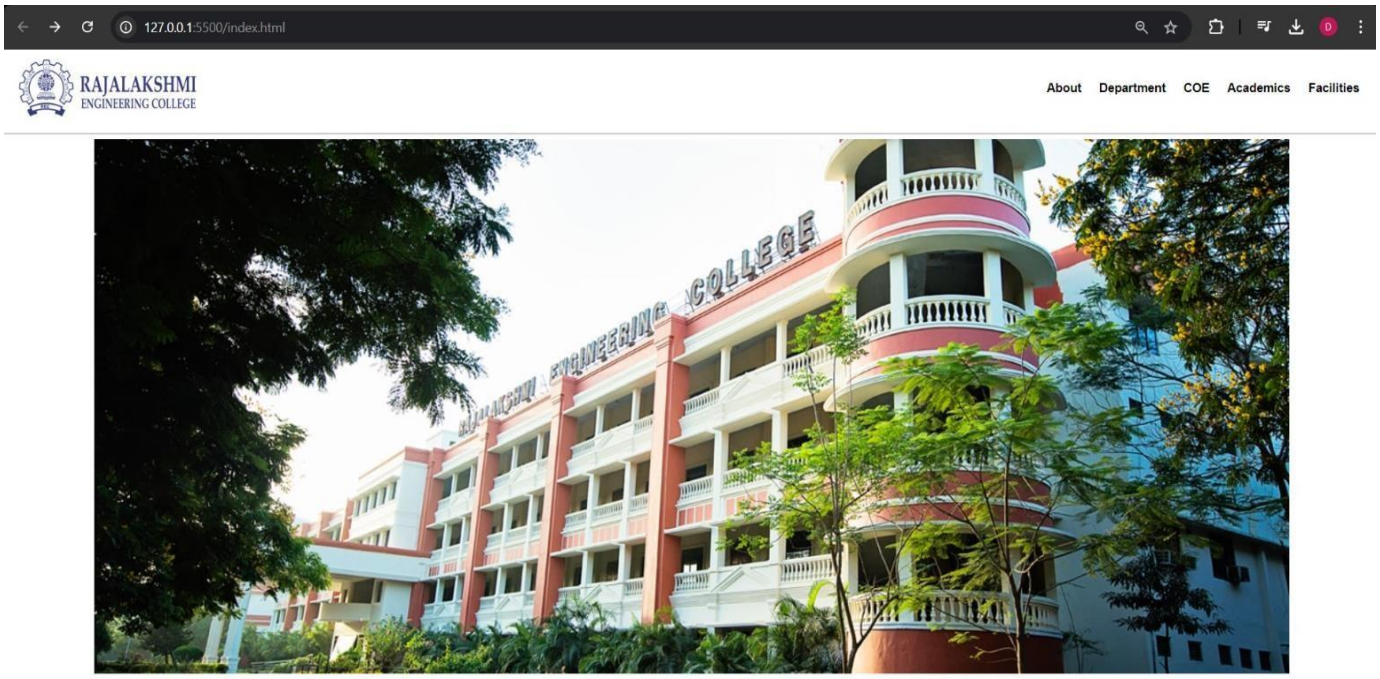
Embedded Style Sheets

1. Use the style element to define the embedded style sheet.
2. Place the Styles in the head to apply matching elements in the entire document, not just to a single element.
3. Use the type attribute to specify specifies the Multipurpose Internet Mail Extension (MIME) type that describes a file‟s content. CSS documents use the MIME type text/css. 4. Use the body of the style sheet to declare the CSS rules for the style sheet. 5. The body of each rule is enclosed in curly braces ({ and }).
6. Declare a style class. Class declarations are preceded with a period and are applied to elements only of that class.
7. Use the property name is followed by a colon (:) and the value of that property. Multiple properties are separated by semicolons (;).

Linking External Style Sheets

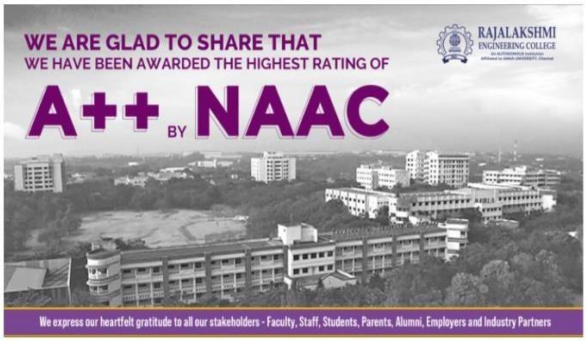
1. Create a link element, which uses the rel attribute to specify a relationship between the current document and another document.
2. Declare the linked document to be a stylesheet for this document.
3. Use the type attribute to specify the MIME type as text/css.
4. Use the href attribute provides the URL for the document containing the style sheet.

Design:



127.0.0.1:5500/about.html

ABOUT THE COLLEGE



REC College, located in the picturesque town of Thandalam, is a prestigious institution dedicated to providing high-quality education and fostering the holistic development of its students. Established with a vision to empower youth with knowledge, skills, and values, REC College has grown to become a beacon of academic excellence and innovation in the region. At REC College, our mission is to create a nurturing environment that promotes academic excellence, critical thinking, and lifelong learning. We strive to equip our students with the knowledge and skills necessary to thrive in a rapidly changing world, while also instilling a sense of social responsibility .

We offer a diverse range of undergraduate and postgraduate programs across various disciplines, including engineering, science, arts, and commerce. Our curriculum is designed to be both challenging and engaging, ensuring that our students receive a well-rounded education that prepares them for successful careers and meaningful lives. Our campus is equipped with state-of-the-art facilities, including modern classrooms, well-equipped laboratories, a comprehensive library, and advanced computing resources. We believe that a conducive learning environment is essential for academic success, and we are committed to providing our students with the best possible infrastructure and resources.

Our faculty members are highly qualified and experienced professionals who are passionate about teaching and research. They are dedicated to mentoring students and fostering an environment of intellectual curiosity and innovation. Through their guidance, students are encouraged to explore new ideas, engage in research, and pursue academic excellence. At REC College, we place a strong emphasis on the overall development of our students. We offer a wide range of extracurricular activities, including sports, cultural events, and student clubs, to ensure a balanced and enriching college experience. Our support services, including counseling and career guidance, are designed to help students navigate their academic journey and achieve their full potential.

127.0.0.1:5500/department.html

DEPARTMENTS OFFERED

Computer Science Engineering (CSE)

- Artificial Intelligence and Machine Learning
- Computer Science and Design
- Computer Science and Business Systems
- Information Technology
- Cyber Security

Mechanical Engineering (ME)

- Thermodynamics and Heat Transfer
- Fluid Mechanics
- Mechanical Design and CAD
- Manufacturing Processes
- Robotics and Automation

Civil Engineering (CE)

- Structural Engineering
- Geotechnical Engineering
- Transportation Engineering
- Water Resources Engineering
- Environmental Engineering

Chemical Engineering

- Process Engineering and Design
- Chemical Reaction Engineering
- Thermodynamics
- Biochemical Engineering
- Environmental Engineering and Sustainability

Controller of Examinations (COE)

Overview

The Controller of Examinations (COE) at REC College, Thandalam, is responsible for overseeing the examination processes and ensuring the smooth conduct of examinations across all departments. The COE ensures that examinations are conducted in a fair, transparent, and efficient manner, adhering to the academic standards and regulations set by the college.

Responsibilities

- Conducting all internal and external examinations for undergraduate and postgraduate programs.
- Managing examination schedules, including the preparation and dissemination of timetables.
- Overseeing the preparation and distribution of examination question papers.
- Ensuring the secure handling and storage of examination materials.
- Coordinating with faculty members to ensure proper examination procedures are followed.
- Addressing examination-related grievances and providing solutions to students and faculty.
- Managing the evaluation and grading process to ensure accuracy and fairness.
- Maintaining records of examination results and issuing transcripts and certificates.

Examination Procedures

The COE implements standardized procedures to maintain the integrity and fairness of the examination process. These procedures include:

- Preparation of examination papers in accordance with the syllabus and academic standards.
- Arrangements for examination halls, including seating plans and invigilation.
- Ensuring compliance with examination rules and regulations by students and staff.
- Handling of absenteeism, requests for rescheduling, and other examination-related issues.
- Providing support and guidance to students regarding examination-related queries.

Results and Grading

The COE is responsible for the accurate and timely processing of examination results. Key activities include:

- Collating and verifying examination scripts and marks.
- Processing grades and preparing result sheets.
- Issuing mark sheets, transcripts, and certificates to students.

Facilities

Campus Overview

Our college is equipped with a range of facilities designed to support the academic, extracurricular, and personal needs of our students. Our campus features modern infrastructure, cutting-edge technology, and a supportive environment that fosters learning and development.

Academic Facilities

Our academic facilities are designed to provide students with an optimal learning environment:

- **Classrooms:** Spacious, well-ventilated classrooms equipped with multimedia projectors, whiteboards, and comfortable seating.
- **Laboratories:** State-of-the-art laboratories for Computer Science, Chemical Engineering, Civil Engineering, and Mechanical Engineering, providing hands-on experience and practical training.
- **Library:** A comprehensive library with a vast collection of books, research journals, online databases, and study areas. It includes reading rooms, computer terminals, and group study spaces.
- **Research Facilities:** Advanced research labs and equipment to support academic research and innovation across various disciplines.
- **Computer Labs:** Fully-equipped computer labs with high-speed internet access, specialized software, and modern computing resources.

Student Facilities

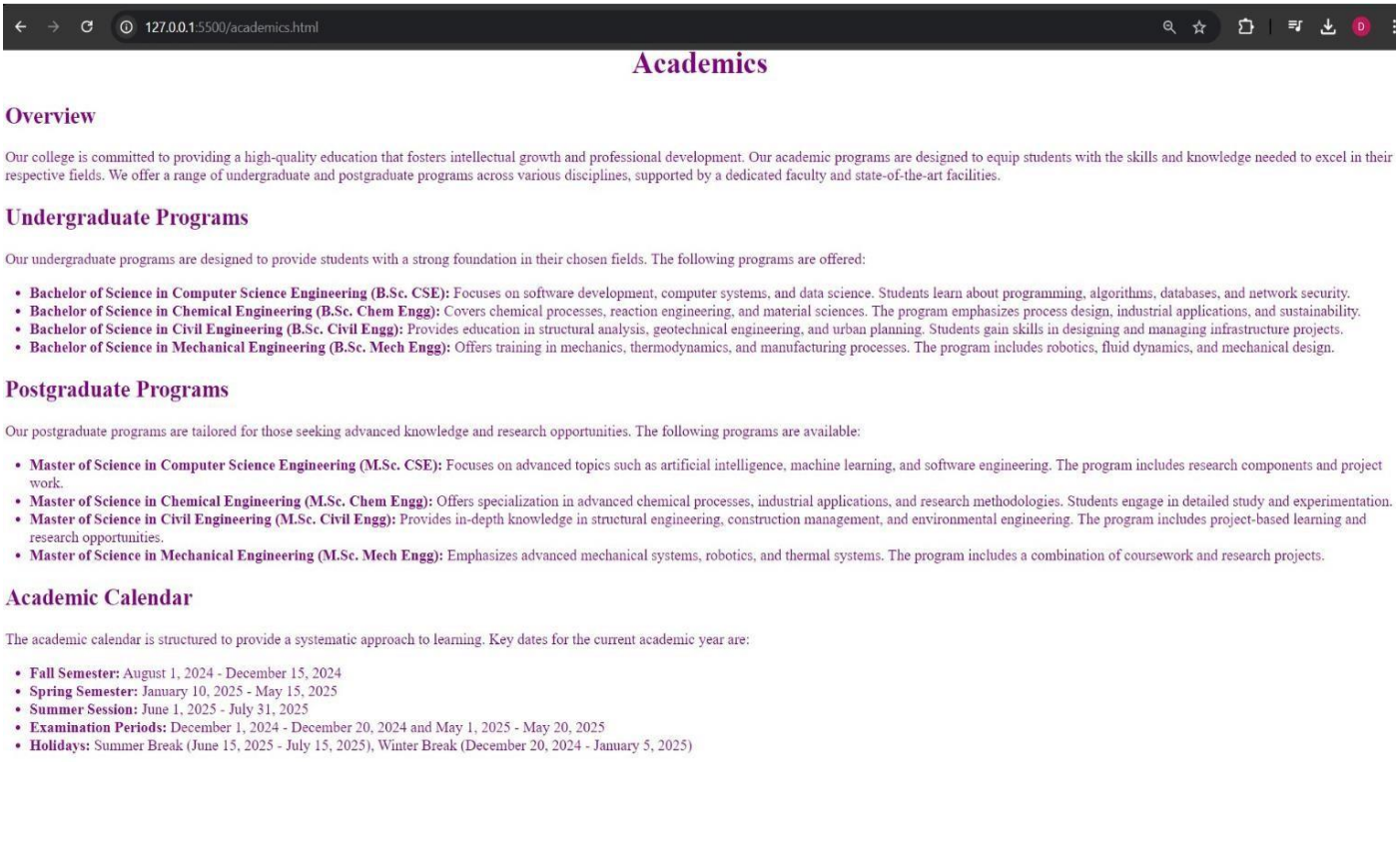
We offer a variety of student facilities to enhance campus life:

- **Hostels:** Comfortable and secure hostel accommodations with amenities such as Wi-Fi, laundry facilities, and recreational areas.
- **Dining Halls:** Multiple dining options, including a main cafeteria and smaller food outlets, offering a range of cuisines and meal plans.
- **Health Center:** On-campus health center providing medical services, including general health care, emergency treatment, and counseling.
- **Sports Complex:** A well-equipped sports complex with facilities for indoor and outdoor sports, including a gymnasium, tennis courts, and a football ground.
- **Recreation Center:** Areas for relaxation and entertainment, including lounges, games rooms, and cultural activity spaces.

Administrative Facilities

Our administrative facilities ensure smooth functioning and support for students and staff:

- **Administrative Offices:** Offices for academic and administrative staff, including departments for admissions, examination, and student services.
- **Finance Office:** Provides support for tuition payments, financial aid, and scholarships.
- **Career Services Office:** Offers career counseling, internship placements, and job search assistance.
- **Student Support Services:** Dedicated offices for handling student queries, grievances, and support services.



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Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 3 Reg. No. : 220701055

Date :

Form Validation

Aim:

Create a HTML form for course registration with student_name, rollno, gender, year, department, Section, mobile_no, E-Mail_ID, Address, City, Country, pincode and validate with the following specifications.

I. Check whether all the inputs are entered or not.

II. Check whether the inputs entered should be in correct format.

After validating using JavaScript, display proper error messages in red color just next to the textbox where there is an error.

Procedure:

1. The form is defined by a form element.

<form method = "post" action = "#">

2. Use the attribute method specifies how the form‟s data is sent to the Web server.Using method = "post" appends form data to the browser request, which contains the protocol (i.e., HTTP) and the requested resource‟s URL. Scripts located on the Web server‟s computer (or on a computer accessible through the network) can access the form data sent as part of the request. For example, a script may take the form information and update an electronic mailing list. The other possible value, method = "get" appends the form data directly to the end of the URL.

3. The action attribute in the <form> tag specifies the URL of a script on the Web server‟ 4. Use the type of input as "text" input inserts a text box into the form. Users can type data in text boxes.

5. The input element's size attribute specifies the number of characters visible in the text box. Optional attribute maxlength limits the number of characters input into the text box. 6. There are two types of input elements in lines

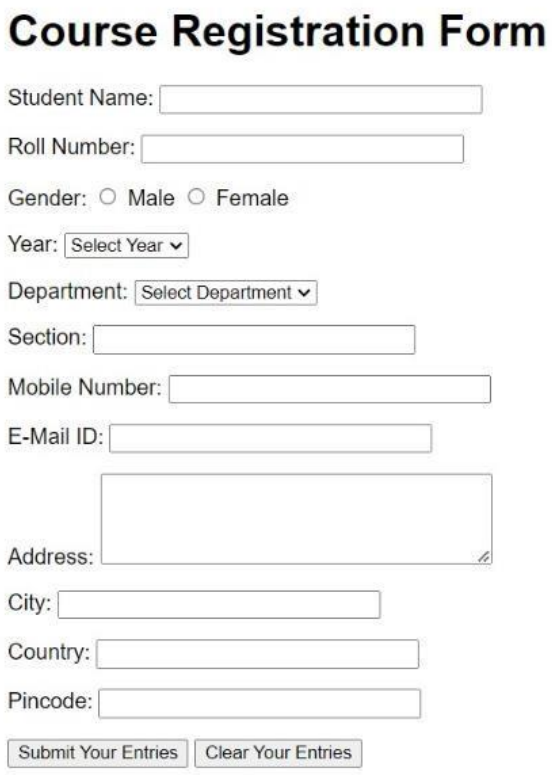
<input type = "submit" value = "Submit Your Entries" />

<input type = "reset" value = "Clear Your Entries" />

7. The "submit" input element is a button. When the user presses a "submit" button, the browser sends the data in the form to the Web server for processing. The value attribute sets the text displayed on the button (the default value is Submit Query).
8. The "reset" input element allows a user to reset all form elements to their default values. The value attribute of the "reset" input element sets the text displayed on the button (the default value is Reset).
9. The textarea element inserts a multiline text box, called a text area, into the form. The number of rows is specified with the rows attribute and the number of columns (i.e.,characters) is specified with the cols attribute. In this example, the textarea is four rows high and 36 characters wide. To display default text in the text area, place the text between the <textarea> and </textarea> tags. Default text can be specified in other input types, such as text boxes, by using the value attribute.
10. The "password" input in lines inserts a password box with the specified size. A password box allows users to enter sensitive information, such as credit card numbers and passwords, by "masking" the information input with asterisks. The actual value input is sent to the Web server, not the character that mask the input.
11. Checkboxes enable users to select from a set of options. When a user selects a checkbox, a check mark appears in the check box. Otherwise, the checkbox remains empty. Each "checkbox" input creates a new checkbox. Checkboxes can be used individually or in groups. Checkboxes that belong to a group are assigned the same name.

12. Radio buttons are similar to checkboxes, except that only one radio button in a group of radio buttons may be selected at any time. The radio buttons in a group have the same name attributes and are distinguished by their different value attributes. The attribute- value pair checked = "checked" indicates which radio button, if any, is selected initially. The checked attribute also applies to checkboxes.
13. The select element provides a drop-down list of items from which the user can select an item. The name attribute identifies the drop-down list. The option element adds items to the drop-down list. The option element‟s selected attribute specifies which item initially is displayed as the selected item in the select element.
14. Use the events for processing forms - onsubmit and onreset.
15. These events fire when a form is submitted or reset, respectively.

Design:



Course Registration Form

Student Name: cse

Roll Number: 220701055

Gender: ○ Male ○ Female Please select your gender.

Year: 3rd Year

Department: Computer Science

Section: A

Mobile Number: 123456789 Please enter a valid mobile number.

E-Mail ID: 220701055@rajalakshmi.edu.in

Address: rajalakshmi engineering college,
thandalam, admin block

City: chennai

Country: india

Pincode: 102 Please enter a valid pincode.

Submit Your Entries Clear Your Entries

Course Registration Form

Student Name: cse

Roll Number: 220701055

Gender: ○ Male ◉ Female

Year: 3rd Year

Department: Computer Science

Section: A

Mobile Number: 1234567890

E-Mail ID: 220701055@rajalakshmi.edu.in

Address: rajalakshmi engineering college,
thandalam,
admin block

City: chennai

Country: india

Pincode: 602105

Submit Your Entries Clear Your Entries

Result: Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 4 Reg. No. : 220701055
Date :

SERVLET

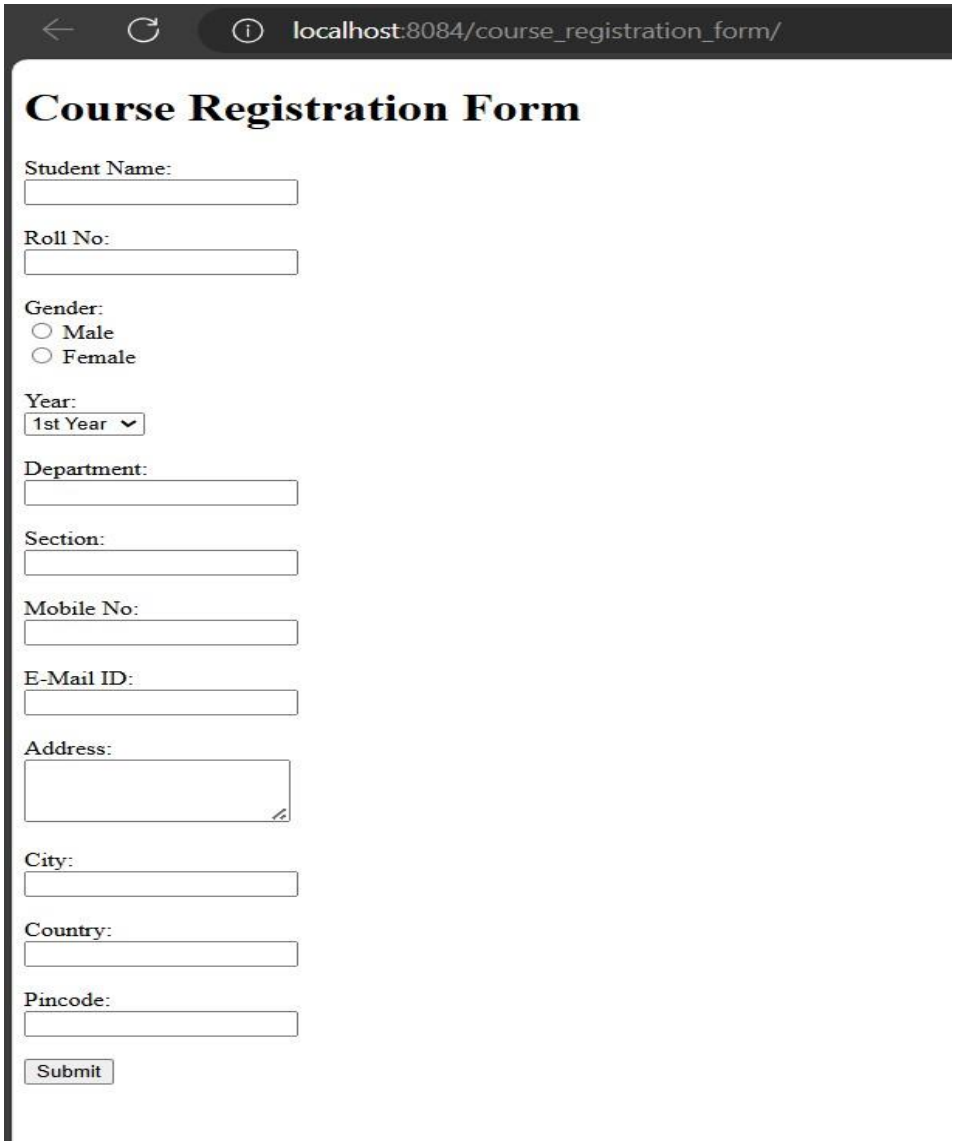
Aim:

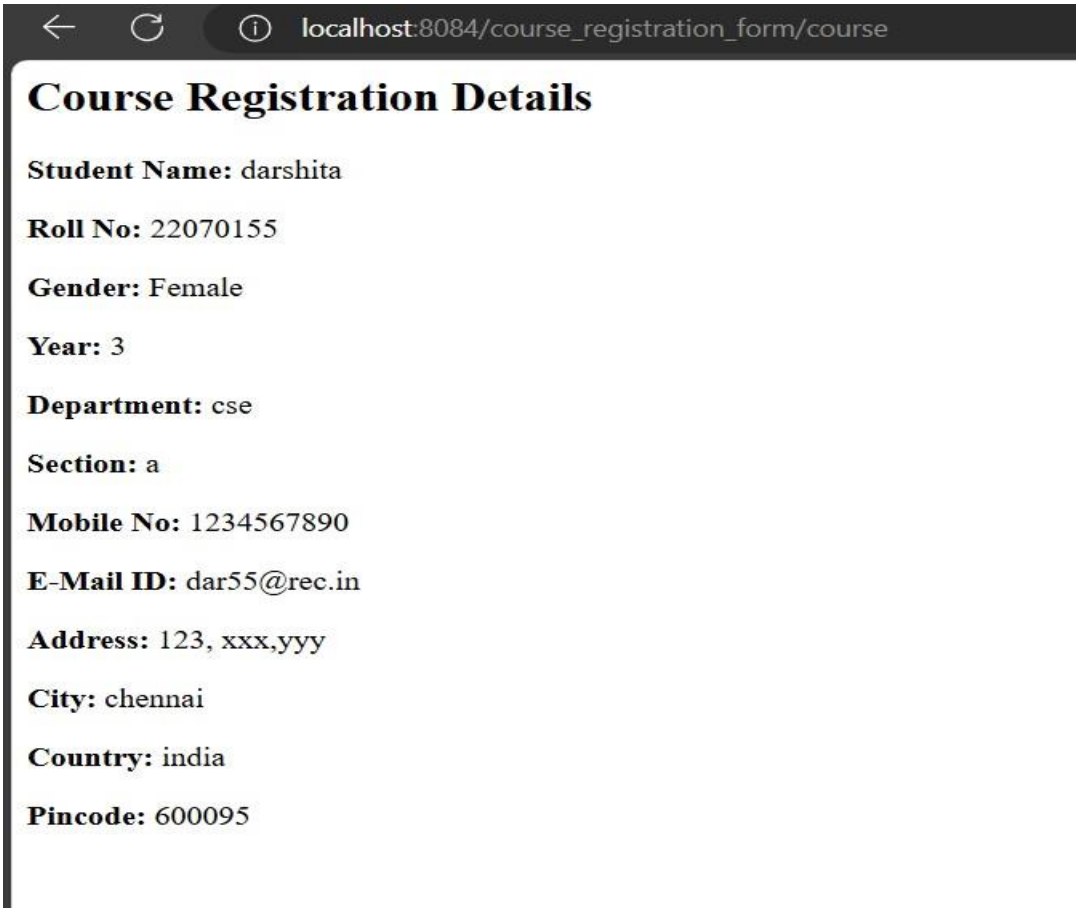
Create a HTML form for course registration with student name, rollno, gender, year, department, Section, mobile_no, E-Mail_ID, Address, City, Country, pincode. Once a user click the submit button extract the input data using servlet and display that data with proper labels.

Procedure:

1. Set up a basic HTML structure.
2. Add form fields for "Student Name," "Roll No," "Gender," "Year," "Department," "Section," "Mobile No," "E-Mail ID," "Address," "City," "Country," and "Pincode."
3. Include a submit button
4. Set the form's method to POST.
5. Set the form's action to the servlet URL that will handle the data submission.
6. Define a servlet in your Java web application.
7. Configure the servlet mapping in web.xml or use annotations.
8. In the servlet's doPost method, retrieve the form data using request parameters.
9. Format the extracted data with proper labels.
10. Send the formatted data back to the client as an HTML response.
11. Deploy the application on a servlet container (like Tomcat).
12. Access the form via a web browser, fill it out, submit, and verify that the data is displayed correctly.

Design:


localhost:8084/course_registration_form/
Course Registration Form
Student Name:
Roll No:
Gender:
Male
Female
Year:
1st Year
Department:
Section:
Mobile No:
E-Mail ID:
Address:
City:
Country:
Pincode:
Submit



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Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 5 Reg. No. : 220701055

Date :

SERVLET - JDBC

Aim:

Consider a Library Management System. Develop a JavaScript program that will validate the controls in the forms you have created for the application. State the assumptions you make (business logic you are taking into consideration). Note: Your application must access a database using Servlet.

Table fields: book_name, author, publisher, edition, price, category

Ex: Internet & World Wide Web, Paul Deitel, Pearson, Fifth Edition, $160, Programming

Functionalities: Display individual book information, Display all book information, Insert individual book information, Update a book information and Delete it.

Procedure:

Relations using MYSQL given below enforcing primary key constraints:

BOOK (ACCNO, TITLE, AUTHOR, PUBLISHER, EDITION, PRICE)

MEMBER (MID, MNAME, BRANCH)

FINE (MID, FINE_DATE, AMOUNT)

1. Open MySQL.
2. Create a database.
3. Connect to the database.
4. Create the tables

Design:

Library Management System - Book Form

Accession Number (ACCNO): 122

Book Title: DARSITHABOOK

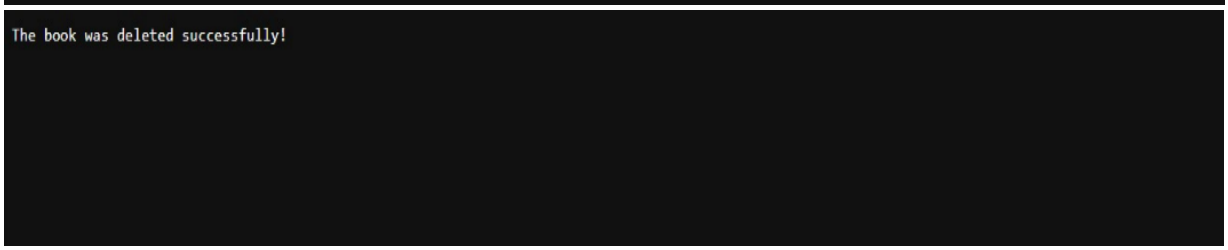
Author: JAMES CLEAR

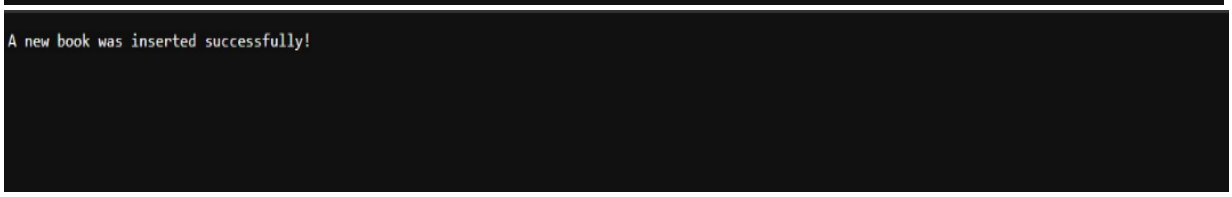
Publisher: ria

Edition: kavya

Price: 100

Submit





Result:
Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 6 a Reg. No. : 220701055

Date :

AJAX -Retrieving Text File

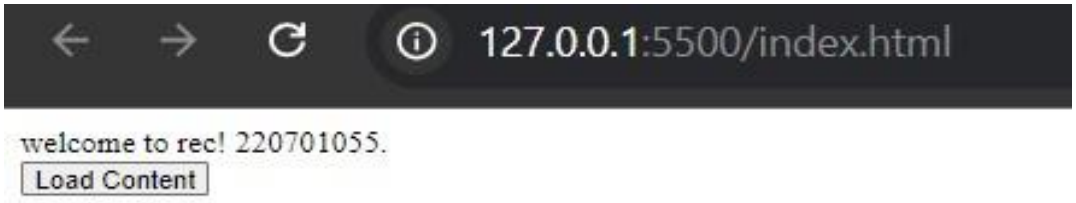
Aim:

Program to create a simple XMLHttpRequest, and retrieve data from a TXT file.

Procedure:

1. Create a text document file rec.txt.
2. Type some context in that file.
3. Create a HTML document file File.html.
4. Inside the BODY tag create one div section and one button.
5. Use the div section to display information returned from a server. 6. Make the button to calls a function named loadXMLDoc(), if it is clicked. 7. Add a <script> tag to the page's head section.
8. Inside the script section create the loadXMLDoc() function.
9. Create an XMLHttpRequest object.
10. To send a request to a server, use the open() method of the XMLHttpRequest object.
11. Use the url parameter of the open() method, an address to a file on a server.
12. Use the responseText property returns the response as a string, and can use it accordingly.

Design:



Result:

Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 6 b Reg. No. : 220701055

Date :

AJAX- Suggesting Keywords

Aim:

Create a program in AJAX ,DHML and the XMLHttpRequest object to return a result without reloading the HTML page.

Case Study : Create an application that takes student names as input from the user. While taking the input, for each key press it is going to provide a list of student names starting with the entered keywords, as suggestion. Use AJAX to generate the suggestion from a servlet having an array of student names.

Procedure:

1.Connect to the Database: Establish a connection to the database containing student information.

2.Fetch Registration Numbers: Retrieve the list of student registration numbers from the database.

3. Display Registration Numbers: Populate a dropdown list with the retrieved registration numbers for the user to select from.

4. Detect Selection Change: Set up an event listener to detect any change in the selected registration number from the dropdown list.

5. Fetch Student Details: When a selection change is detected, query the database to fetch student details (e.g., name, age, department) corresponding to the selected registration number.

6. Display Student Details: Update the user interface to display the retrieved student details.

7. Handle Errors: Add error handling to manage database connectivity issues or empty records.

8. Optimize Database Connection: Ensure the database connection is closed after the operations to free up resources.

9.Test Functionality: Test the dropdown and display functionality to ensure it accurately fetches and displays details for each registration number.

10.Deploy Application: Deploy the application to a server or local environment for user access.

Design:

Result : Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 7 Reg. No. : 220701055

Date :

AJAX-JDBC

Aim:

Create an application that allows user can choose student reg-no as input from the list. While choosing the input, for each change it is going to provide student details, which is available in a database.

Procedure:

1.Connect to the Database: Establish a connection to the database having student information.

2.Fetch Registration Numbers: Retrieve the list of student registration numbers from database.

3. Display Registration Numbers: Populate a dropdown list with the retrieved registration numbers for the user to select from.

4. Detect Selection Change: Set up an event listener to detect any change in the selected registration number from the dropdown list.

5. Fetch Student Details: When a selection change is detected, query the database to fetch the student details (e.g., name, age, department) corresponding to the selected registration number.

6. Display Student Details: Update the user interface to display the retrieved student details.

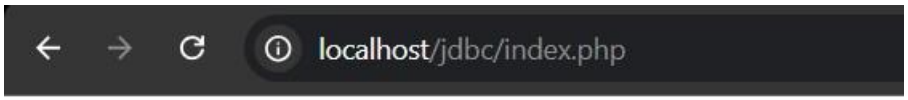
7. Handle Errors: Add error handling to manage database connectivity issues or empty records.

8. Optimize Database Connection: Ensure the database connection is closed after the required operations to free up resources.

9.Test Functionality: Test the dropdown and display functionality to ensure it accurately fetches and displays details for each registration number.

10.Deploy Application: Deploy the application to a server or local environment for user access.

Design:



Select Student Registration Number

S001

Student Details

Name: darshita
Age: 20
Department: Computer Science

Select Student Registration Number

S001

Select a Registration Number
S001
S002
S003

Department: Computer Science

Result : Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 8 Reg. No. : 220701055

Date :

PHP-Banking Application

Aim:

Consider a Banking application. Develop a PHP program that will validate the controls in the forms you have created for the application. State the assumptions you make (business logic you are taking into consideration). Note: Your application must access a database using PHP

Functionalities:

1. Displaying customer information
2. Displaying account information
3. Inserting customer information
4. Inserting account information

Procedure:

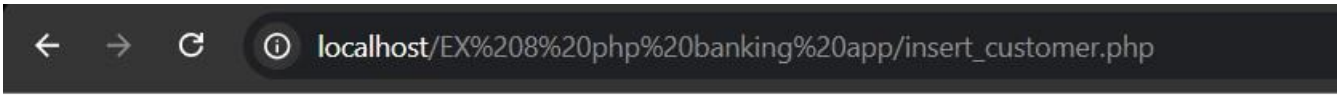
Relations using MYSQL for a banking application given below enforcing primary constraints: CUSTOMER (CID, CNAME) ACCOUNT (ANO, ATYPE, BALANCE, CID)

An account can be a savings account or a current account. Check ATYPE in „S" or „C". A customer can have both types of accounts.

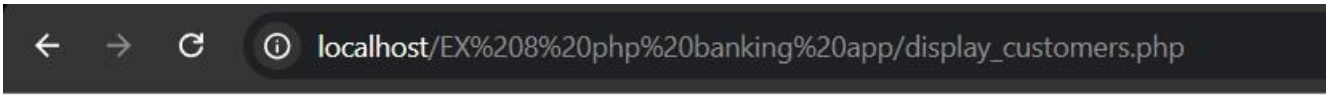
TRANSACTION (TID, ANO, TTYPE, TDATE, TAMOUNT) TTYPE can be „D" or „W" (D- Deposit; W – Withdrawal)

1. Open MySQL.
2. Create a database.
3. Connect to the database.
4. Create the tables.

Design:



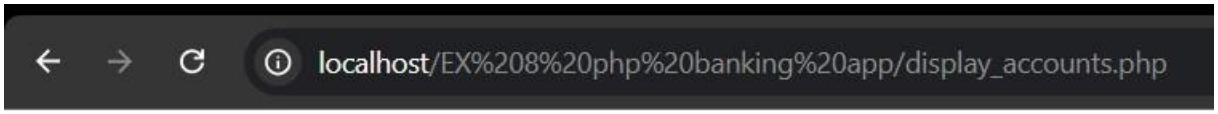
New customer created successfully.
Customer Name: Add Customer



Customer Information

CID	Name
1	darshita

New account created successfully.
Customer ID: Account Type (S/C): Add Account



Account Information

ANO	Account Type	Balance	CID
1	S	0.00	1

Result: Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 9 Reg. No. : 220701055

Date :

PHP -Employee Details

Aim:

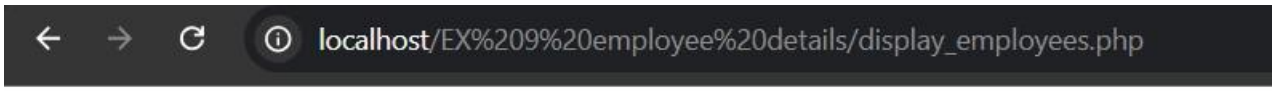
PHP program for Employee Details, which includes EmpID, Name, Designation, Salary, DOJ, etc., to connect with the database and execute queries to retrieve and update data.

Procedure:

Relations using MYSQL for a banking application given below enforcing primary key constraints: EMPDETAILS (EMPID, ENAME, DESIG, DEPT, DOJ, SALARY)

1. Open MySQL.
2. Create a database.
3. Connect to the database.
4. Create a table

Design:



Employee Details

EmpID	Name	Designation	Department	DOJ	Salary
1	darshita	student	cse	2024-11-03	200000.00

Result : Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 10 Reg. No. : 220701055

Date :

JQuery

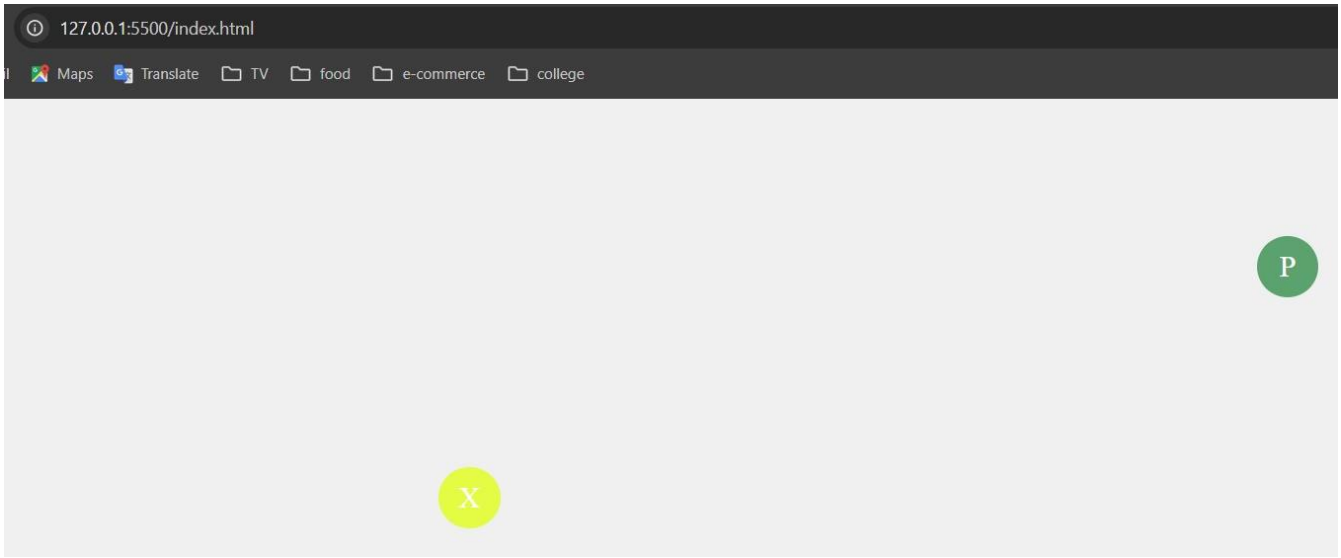
Aim:

Program to develop a simple game using jQuery.

Procedure:

1. Read a key Code upon pressing a key on keyboard.
2. Screen resolution is read by the following code. Here we are reducing 100px and 200px from width and height as browser occupying some of the space at top and bottom. var width = screen.width - 100; var height = screen.height - 200;
3. And next function is used to Generate a random alphabet between A - Z. 4. Here the key code values for A - Z are 65 - 90.
5. Math.random() - used to generate a random number.
6. String.fromCharCode() - is used to convert a key Code into its equivalent Character.
7. For CSS styling purpose we are generating a random color for every bubble.

Design:



Result: Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 11 Reg. No. : 220701055

Date :

Bootstrap

Aim:

Program to develop an attractive web pages using Bootstrap.

Procedure:

1.Set Up HTML: Link Bootstrap CSS and JS in an HTML file.

2.Responsive Navbar: Create a top navigation bar with Bootstrap's navbar class.

3.Add Carousel: Use carousel for an image slider with captions and controls.

4.Grid Layout: Use row and col-* classes for a responsive, sectioned layout.

5.Cards for Content: Use card components for blocks like services or articles.

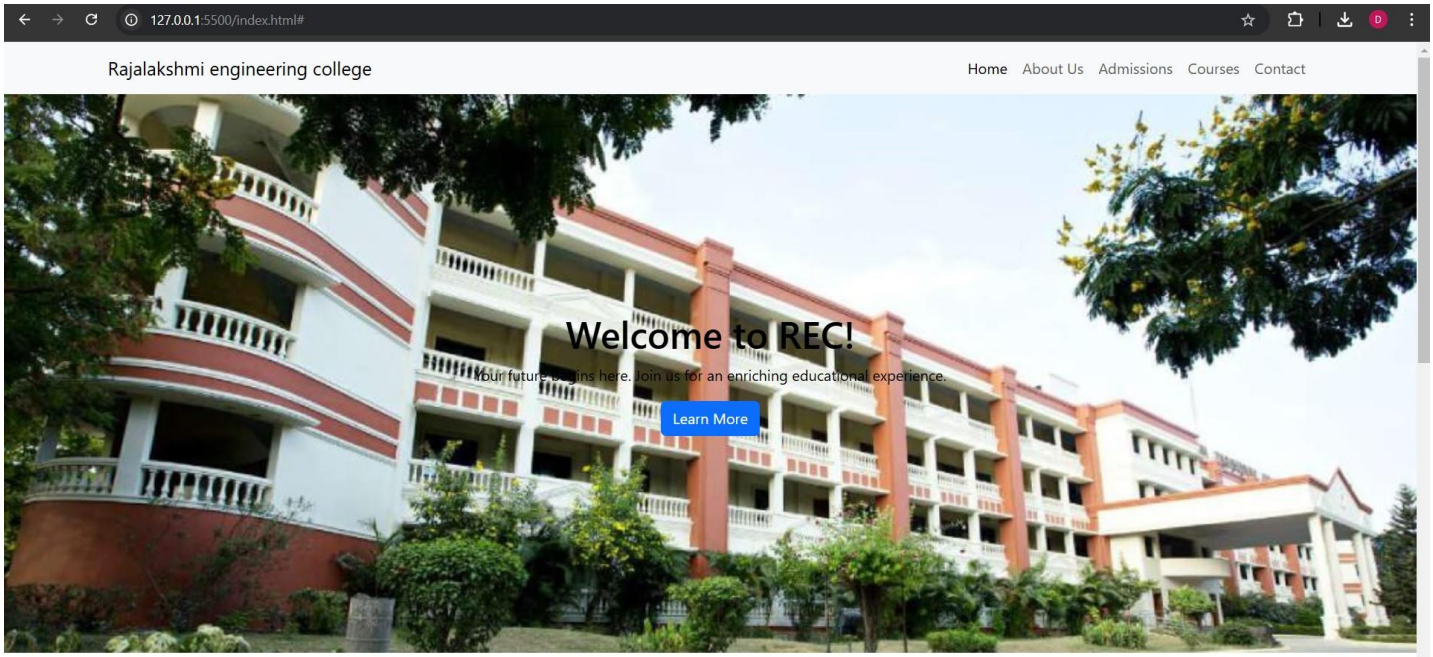
6.Sidebar: Add a col-md-* sidebar for additional content like recent posts.

7.Footer Links: Add a footer with social links and contact info.

8. Customize Styles: Use Bootstrap utilities and custom CSS for unique styles.

9.Test & Optimize: Ensure responsiveness and optimize images for performance.

Design: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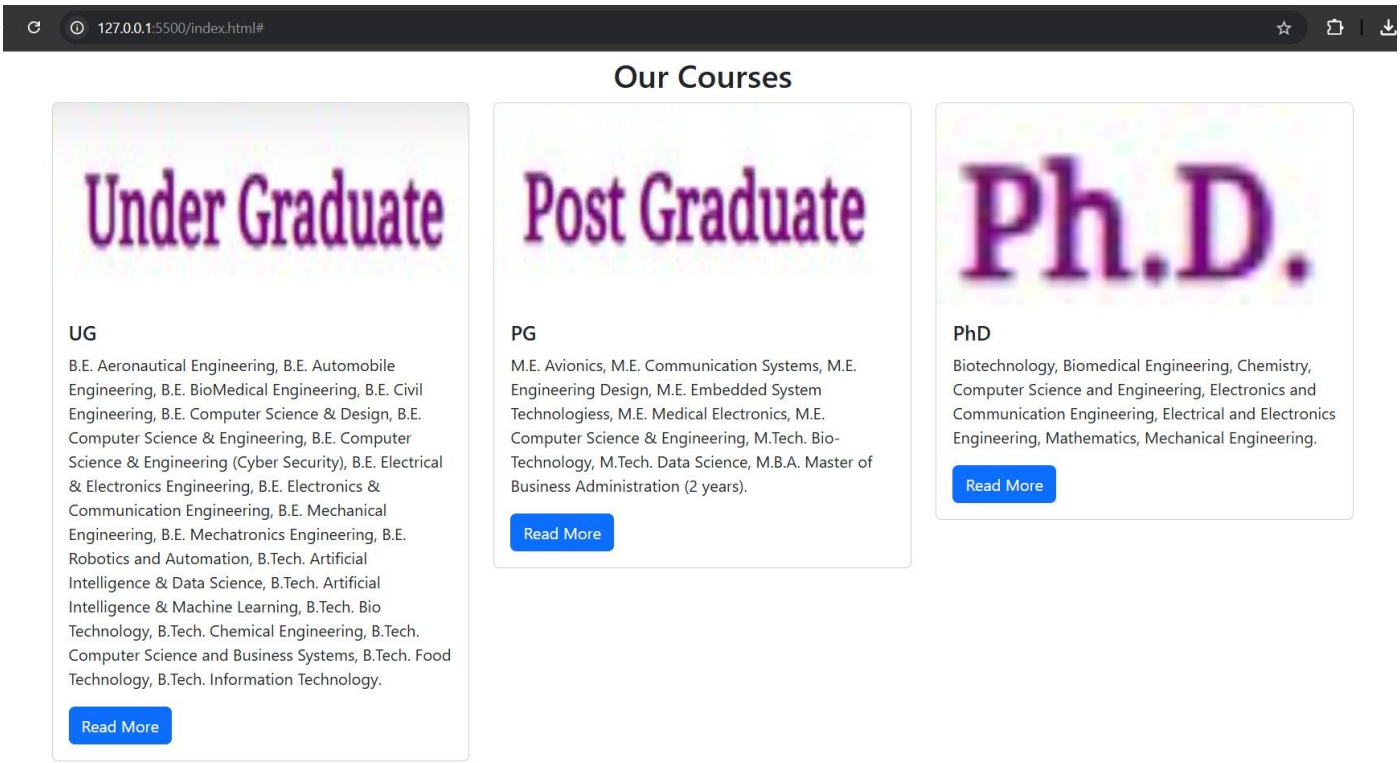
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Result : Thus the given design was successfully developed and output was verified.

Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	