RAJALAKSHMI ENGINEERING COLLEGE RAJALAKSHMI NAGAR, THANDALAM – 602 105



CS19542 - INTERNET PROGRAMMING LABORATORY

Laboratory Record Note Book

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BONAFIDE CERTIFICATE

NAME	
ACADEMIC YEAR SEME	STERBRANCH
UNIVERSITY REGISTER No.	
Certified that this is the bonafide record of	work done by the above student in the
Laboratory during t	he year 20 - 20
e umoin should be given wherever	Signature of Faculty - in - Charge
Submitted for the Practical Examinatio	n 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). Note: Your application must access a database using JSP. 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.:

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.

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

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

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.

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

Ex. No.: 2 a Reg. No.

Date:

HTML – Image Map

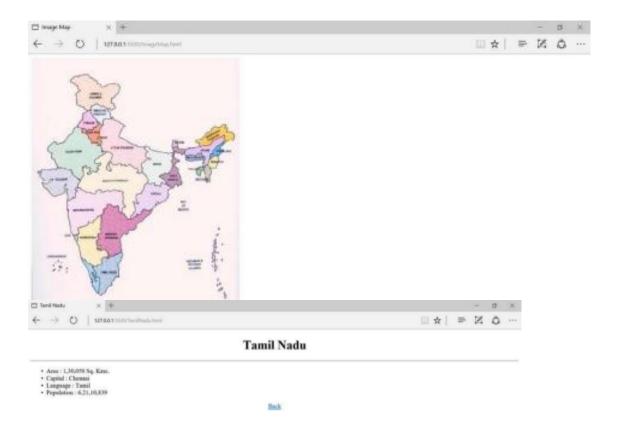
Aim:

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.
- 11. Locate the image map within the same document so internal linking is used. **Design:**



Result

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

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

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.



Rajalakshmi Nagar, Thandalam, Chennai - 602 105

CSE

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News

Welcome to the Department of CSE - Home Page

RAJALAKSHMI

Rajalakshmi Nagar, Thandalam, Chennai - 602 105

CSE

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Introduction

Opportunities

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Lab Facility

News

Vision

INTRODUCTION

To promote highly Ethical and Innovative Computer Professionals through excellence in teaching, training and research.

Mission

To produce globally competent professionals, motivated to learn the emerging technologies and to be innovative in solving real world problems.

To promote research activities amongst the students and the members of faculty that could benefit the society.

To impart moral and ethical values in their profession.



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Opportunities

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Name

OPPORTUNITIES

Computer science and Engineering graduates are the pillars of the current and emerging information era. Opportunities include pursuing Master of Science Programs in reputed Universities of U.S. and taking up research assignments in Hardware, System Software, Computer Engineering, Multimedia, Networking and Communication areas.

Job opportunities are ever increasing and are varied in nature. System study, analysis, Design and Programming are the inherent phases in Application Development and each one of them provides enormous potential to the Computer Science and engineering graduates to shape themselves in their career. Hi-end profiles include Artificial Intelligence, Robotics, Graphic Solutions and Simulations.

This degree program prepares students for Advanced, Technical Computer Systems Design and Development Work. It includes the study of the Database Design, Data Communications, Procedural and Object Oriented Programming, Operating Systems Design, Algorithm Development and Applications of Artificial Intelligence. The curriculum includes basic course work in Electronics Technology and the Theory of Programming Languages. Students focus on developing computer-based solutions involving hardware and software components and integration. Graduates are qualified to work in a range of positions, from entry-level computer scientists and system engineers to project managers leading advanced applications of computer science to real-world problems. The department has since broadened its research strengths.

RAJALAKSHMI

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CSE

Introduction

Opportunities

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FACULTY MEMBERS

No.	Name	Designation
1	Dr.V.Murali Bhaskaran	Professor and Dean
2	Dr.P.Kumar	Head and Director
3	Dr. Revathy P	Professor



Rajalakshmi Nagar, Thandalam, Chennai - 602 105

CSE	NEWS
Introduction	RESEARCH CENTRE
Opportunities	The department is recognized as a Research Center for M.S. / Ph.D. by the ANNA UNIVERSITY.
Faculty Members	AFFILIATION
Lab Facility	The Department has PERMANENT AFFILIATION from ANNA UNIVERSITY.
News	AICTE-CII SURVEY
	The department is Ranked 3rd in the AICTE-CII Survey conducted Nationwide for Industry Institute Interaction.
	IIT BOMBAY REMOTE CENTER
	The department acts as Remote Center for conducting Spoken Tutorials, workshops and certifications by ITT, BOMBAY in collaboration with ISTE and funded by MHRD
	IBM CENTRE FOR EXCELLENCE
	The department is credited with IBM Software Centre for Excellence and the lab is set for the same.

Result

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

Ex. No.: 3 Reg. No.:

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.

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

Ex. No.: 4 Reg. No.:

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:

Result

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

Ex. No.: 5 Reg. No.:

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

Result

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

Ex. No.: 6 Reg. No.:

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.

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

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

AJAX- Suggesting Keywords

Aim:

Date:

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:

Resul	t	
	the given design was successfully develo	ped and output was verified.
	Evaluation Procedure	Marks awarded
	Procedure(3)	
	Design Output(5)	

Design:

Viva(2)

Total (10)

Faculty Signature

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

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

Ex. No.: 8 Reg. No.:

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.

Result

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

Ex. No. : 9	Reg. No.:
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

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

Ex. No.: 10 Reg. No.: 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;

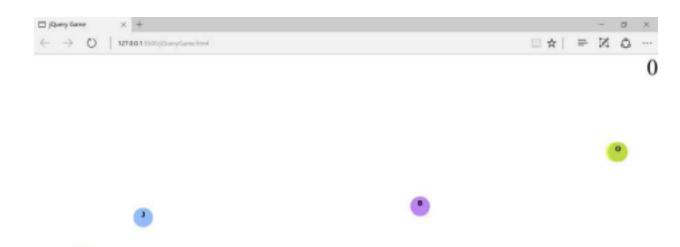
var height = screen.height - 200;

- 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:



Start





Result

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

Ex. No	o.:11 Reg. No.:
Date:	
	Bootstrap
Aim:	Program to develop an attractive web pages using Bootstrap.
Proce	dure:

Design:









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Department - Computer Science and Engineering



(4f), Research, Consultancy &

Department of Computer Science and Engineering

Programmes Offered

UG - B.E. Computer Science and Engineering. PG - M.E. Computer Science and Engineering. Ph.D. - Computer Science and Engineering.



Since in inception in 1987, the Department of Conquiter Science and Engineering has been continuously making progress in seabling and 8.6 D activities. Initially commercing with an inialse of 60 students, the sacritioned inside was increased or 90 seas in 2001 and 10 2001 the Department was recognized as Collaborative Research. Centre by Arna University is offer M.S. day research and Ph.D. programme. The Department has been maintaining an active interaction with the including an active interaction with the including an active interaction with the Conductive Department Process of Infla. The IT major Tails consultancy Services has accordized the college for faculty and students development programmes, campus interview etc.



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Associate Professor

CDE ACADEMICS ADMISSIONS PACILITIES STUDENT LIFE PLACEMENTS RESEARCH IIC IIC ALUMNI NISP IR IGAC NAAC Department > Computer Science and Engineering Faculty D Introduction Page last updated on 03.04.2023 Name of the Faculty SLNo. @ Objectives Designation. Dr. V. Murali Bhaskaran Dean & Professor Dutcomes Dr. Kumar P Professor & Director (Alumni Affairs) (A) Opportunities Dr. Bevuthy F Professor & Head □ Lab Facility Dr. Poonkuzhali S Professor Faculty Dr. Geetha G Professor & Dean (Innovations) Student Achievements Dr. Krishna B V Professor P Faculty Achievements Dr. Baghavathi Priya S Y Seminars & Conferences Dr. Devaki K Tinternships Dr. Jayashree K Professor Dr. Anantha Sivaprokasam S Faculty Publications Professor Mg Student Publications 11 Dr. Murugan G Professor Dr. Prtys Vijey Thiversity Ranks 13 Dr. Vined Karner S Professor AA Innovative Projects Dr. Scinivasan N 14 Professor Books Published 15 Mr. Suresh kurner S Associate Professor

Result

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

Ms. Sorna Shanthi D

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

Ex. No. : 12	Reg. No.:	
Date:		

Angular

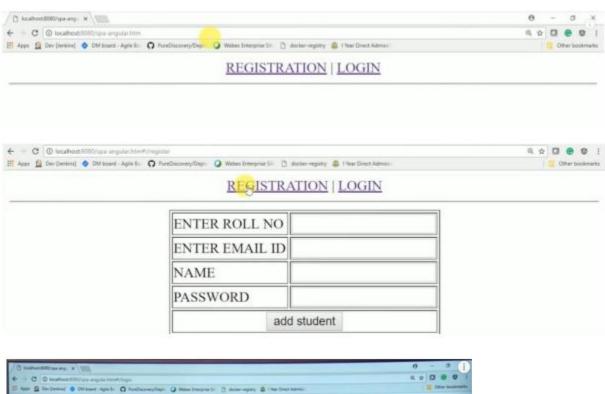
Aim:

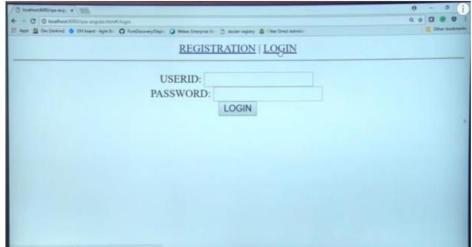
Program to develop an attractive web pages using Angular 9.

Procedure:

- 1. Define a simple controller:
- 2. After created module and controller, use them in our HTML.
- 3. Include angular script and app.js that we built.
- 4. Specify module in ng-app attribute and controller in ng-controller attribute. 5. Start working on adding single page application support.
- 6. Make a single page application and don't want any page refreshes, use Angular's routing capabilities.
- 7. Include angular-route script after the main angular script.
- 8. Specify that the module depends on ngRoute module to be able to use it. 9. The next thing is to distinguish common HTML for every page. This HTML will be layout of the website.
- 10. Then specify the place where HTML of each page will be placed in our layout. There is a ng view directive for that.
- 11. ng-view is an Angular directive that will include the template of the current route (for example, /blog or /about) in the main layout file.
- 12. Configure the routes. Use \$routeProvider service from the ngRoute module. 13. For each route, specify templateUrl and controller.
- 14. If user will try to go to the route that does not exist, handle this by using otherwise function. In our case, we will redirect user to the "/" route:
- 15. Build controllers for every route (already specified their names in routeProvider).

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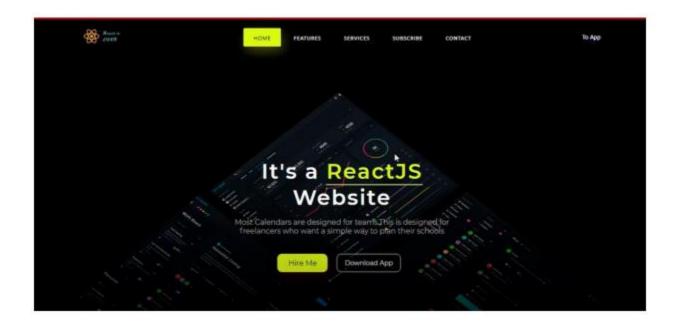


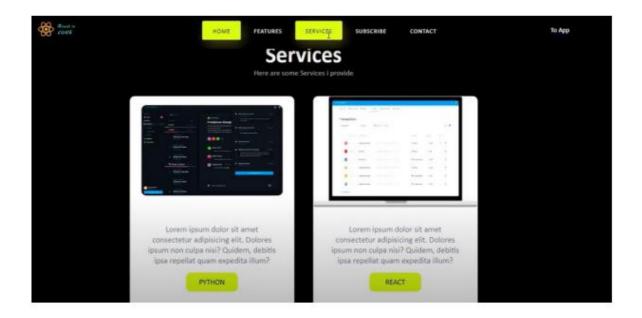
Result

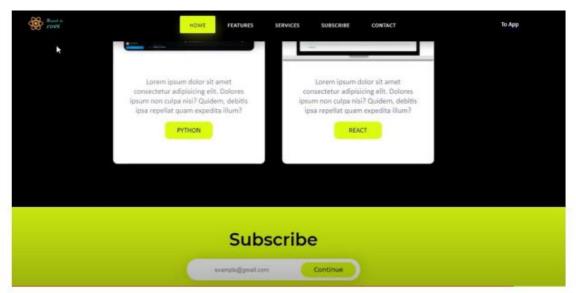
Evaluation Procedure	Marks awarded
Procedure(3)	
Design Output(5)	
Viva(2)	
Total (10)	
Faculty Signature	

Ex. No. : 13	Reg. No. :
Date :	
	ReactJS
Aim: Progra	m to develop an attractive web pages using ReactJS.
Procedure:	

Design:







Result

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