Kolhapur Institute of Technology's College of Engineering Kolhapur Department of Computer Science and Engineering

Subject: Web Technology Lab AY: 2024-25 [SEM-I]

Problem Statements

- Design a user registration form and validate using JAVASCRIPT with following fields and validations
 - User Name (should contain first name and last name only characters allowed)
 - 2. Gender radio button (Male & Dentale)
 - 3. Date of Birth
 - 4. List of States (any 5 states

Dropdown) 5 Pin Code 6 digits only

- 7. Email (Should be valid email address)
- 8. Password (should be minimum 4 characters)
- 9. Confirm Password (should match to Password Entered)
- 2. Develop EMI calculator using JavaScript
 - a. **Input**: Amount, Duration[Month] and Interest Rate [Input Type=range]
 - b. **Output**: Total Payable amount, Total Interest Amount and EMI

- 3. Develop JSP application for student registration and insert information into MySQL database
 - a. Input: Roll number, first name and Last Name [input
 type=text] Academic Year:[Drop-Down list]
 Birth date:- separate drop down list for Day, Month and Year using for loop
 - b. Output: 1) Show successfully registered message
 - 2) If roll number is already present in database then show error message as "this student is already registered"
- 4. Develop a simple Servlet application for student login
 - a. Validate username and password with database
 - b. If username or password is incorrect show error message on login page using request dispatcher forward
 - c. If data validated successfully then show profile page

- Develop a simple JSP application for student registration and insert information of student into MySQL database
 - a. **Input**: Roll number, first name and Last Name [input

type=text] Academic Year:[Drop-Down list]

Gender:[input type: radio]

Mobile Number:[Check Box]

- Output: 1)If roll number is already present in database then show error message as "already registered"
 - 2) Otherwise insert data into database and show "Successfully registered "message
- 6. Develop a simple JSP application to update student information in MySQL database

[Student table: first name, last name, gender, mobile number, college name, Academic year]

- a. Design form to accept roll number and retrieve information from database and show in another HTML form
- b. Update first name, academic year and mobile number of user,
- c. If roll number is present in database then show "Data not found message"
- Develop a simple JSP application to delete information of particular employee from database [Employee table: first name, last name, mobile number, organization and salary]
 - a. Design HTML form to accept roll number from user
 - b. Before deleting information show alert message "do you want to delete -----[roll number]"
 - c. If roll number is not present in database then show "Data not found message"

- Develop a JSP application to retrieve Employee information from MySQL database
 [Database contain employee information: Employee ID, first name, last name, Department and Salary]
 - a. Display all student data in HTML table
 - b. Accept employee ID or First name and display employee ID, First name and Department of that employee
 - i. If Employee ID is not present in database then show "Data not found" message
- 9. Create servlet program for student registration and insert information into MySQL database
 - a. Input: Roll number, first name and Last Name [input

type=text] Academic Year:[Drop-Down list]

Gender:[input type: radio]

Qualification: HSC, SSC, Diploma, BE, [Check Box] [store it into single column database]

- b. Output: 1) Show successfully registered message
 - 2) If roll number is already present in database then show error message as "this student is already registered"
- 10. Develop a Servlet application to delete information of particular employee from database [Database contain employee information: Employee ID, first name, last name, Department and Salary]
 - a. Design HTML form to accept Employee ID from user
 - b. Before deleting information show alert message "do you want to delete -----[roll number]"
 - c. If employee ID is not present then show "Data not found message"

- 11. Develop a Servlet application to retrieve Employee information from MySQL database [Database contain employee information: Employee ID, first name, last name, Department and Salary]
 - a. Display all student data in HTML table
 - b. Accept first name, If first name is present in the database then display information of that employee
 - c. If first name is not present then show "Data not found message"
- 12. Develop simple Servlet Application to demonstrate session management
 - a. Develop login, logout and Profile page
 - b. Accept name and password from user; compare it with database username and password
 - c. If match found then forward to Welcome page otherwise redirect to login page
- 13. Write a JSP application to input book information and store it in the database. Application must provide facility to search book based on title of book or author or ISBN number.
- 14. Convertor Application using JavaScript

Accept input from user & convert it into appropriate format and display output on same webpage

Must give all facility on same webpage

Hint:

Celsius to Fahrenheit
$$^{\circ}$$
 F = 9/5 ($^{\circ}$ C) + 32
Kelvin to Fahrenheit $^{\circ}$ F = 9/5 (K - 273) + 32
Fahrenheit to Celsius $^{\circ}$ C = 5/9 ($^{\circ}$ F - 32)
Celsius to Kelvin K = $^{\circ}$ C + 273
Kelvin to Celsius $^{\circ}$ C = K - 273
Fahrenheit to Kelvin K = 5/9 ($^{\circ}$ F - 32) + 273

- 15. Develop simple web application to accept book information from user and store in the database. Application must provide facility to
 - To add new Book
 - To Display all book information

Use MySQL Database

Use JPA Repository operations

- a. Book information: id, name, author, price, publication year
- 16. Develop simple web application using Spring Boot technology thymeleaf to retrieve book information in HTML table. . Application must provide facility to
 - To add new Book
 - To update information of particular book

Use MySQL Database

Use JPA Repository operations

- a. Book information: id, name, author, price, publication year
- 17. Develop simple web application using Spring Boot technology thymeleaf to retrieve book information in HTML table. . Application must provide facility to
 - To add new Book
 - To Delete information of particular book

Use MySQL Database

Use JPA Repository operations

a. Book information: id, name, author, price, publication year

18.	Develop simple web application using	ng Spring Boot	technology to	retrieve all,	particular book
	information; add new book informa	tion in List. Use	e List to store s	tatic [Hard co	oded values]

a. Book information: id, name, author, price, publication year