

# SL3003 Web Engineering Lab

Monday, May 22, 2023

**Course Instructor**

Umer Iqbal

Serial No:

**Final Exam**

**Total Time: 3 Hour**

**Total Marks: 90**

\_\_\_\_\_  
Signature of Invigilator

\_\_\_\_\_  
Roll No

\_\_\_\_\_  
Section

\_\_\_\_\_  
Signature

**DO NOT OPEN THE QUESTION BOOK OR START UNTIL INSTRUCTED.**

**Instructions:**

1. Verify at the start of the exam that you have a total of **three (3)** questions printed on **five (05)** pages including this title page.
2. The exam is open books, open notes. However, **internet usage is not allowed** and the paper will be deemed cancelled if any student is caught violating this rule.
3. Read the questions carefully for clarity of context and understanding of meaning and make assumptions wherever required, for neither the invigilator will address your queries, nor the teacher/examiner will come to the examination hall for any assistance.
4. Submit each question in sperate folder with appropriate files and attach screen shots in a document file.

	Q-1	Q-2	Q-3	Total
Total Marks	15	30	45	90
Marks Obtained				

University Answer Sheet Required: No ☒ Yes ☐

## Instructions:

1. Download the zip file from Google classroom. The password to open the file will be provided to you. The zip file contains your final exam in PDF form and some files
2. You are given some resource files to complete the tasks. Each question will have resource file in its own folder. The instruction on how to use these files are already given in description of each question.
3. Download the paper from Google classroom. The password to open the file will be provided to you.
4. You must submit each question in individual folder along with all its resource file and a docx file that contains screenshots.
5. Submit the final folder in zip format in following format “**ROLL\_SECTION\_WEBLABFINAL**” i.e 23F9001\_SECTIONA\_WEBLABFINAL.zip on **Google Classroom**.

Note: Make sure that your zip file is extracting properly. If the file is corrupt, then you will be marked 0 in final

<b>Q1</b>	<b>15 Marks</b>
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There is a page called “employee.html” given to you in folder “employee”. Initially the elements are unstructured and are not in a proper alignment and shape. There are two ways to get the things sorted. One is to apply your own style using css properties. Another one is to simply use the bootstrap. So you have to apply the bootstrap css on the html file. We have seen an example of such transformation in the class where we applied admin lte bootstrap css.

### Page before applying given css:

Page before applying given css:

#### Employee Form

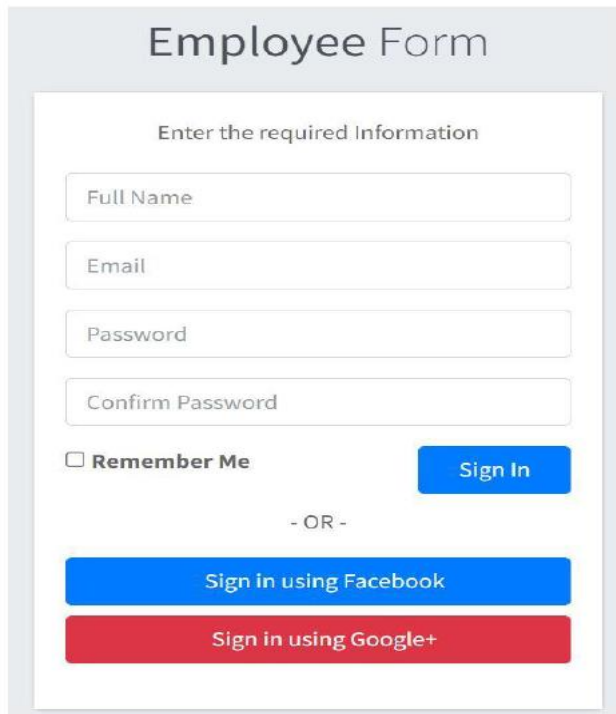
Enter the required Information

Full Name
Email
Password
Confirm Password
<input type="checkbox"/> Remember Me
Sign In

- OR -

[Sign in using Facebook](#) [Sign in using Google+](#)

### Page after applying given css:

A screenshot of an "Employee Form" with a light blue header. Below the header, it says "Enter the required Information". There are four input fields: "Full Name", "Email", "Password", and "Confirm Password". Below these fields is a checkbox labeled "Remember Me" and a blue "Sign In" button. Below the "Sign In" button is the text "- OR -". There are two more buttons: a blue "Sign in using Facebook" button and a red "Sign in using Google+" button.

**Q2**

**30 Marks**

You are given an html file with the name "c\_page.html". Required CSS is already applied to the elements. Your task is to implement the functionality of a simple calculator using javascript/jQuery(Whatever suits you the best). here is example of how your program should work.

1. Whenever user a click any button other then = and c, the result must be appended and displayed in textbox with id="result"
2. For example, clicking 5 => + => 6 => / => 7 should result in 5+6/7 in the textbox
3. Whenever user click = button, the result of whole expression should be evaluated. (You can use eval(string) function to evaluate the expression that takes expression as string and return the result. However different implementations other than using eval function can also be done ) . if there is any error in calculation display "ERROR " in text button
4. Clear the textbox value whenever user click C button

Example Screenshot after clicking 5 + 6 / 7 in sequence.

5+6/7

7	8	9	/
4	5	6	*
1	2	3	-
0	.	=	+
C			

Result after clicking “=”

5.857142857142857

7	8	9	/
4	5	6	*
1	2	3	-
0	.	=	+
C			

# National University of Computer and Emerging Sciences

Department of **Computer Science**

Chiniot-Faisalabad Campus

**Q3**

**20+25=45 Marks**

Part1: Create a page as shown in the picture Using HTML,CSS and BOOTSTRAP .  
Bootstrap files (both css and jquery is given to you in the resource folder of question 3)

Add new KUC Member

The screenshot shows a web form titled "Member Profile" with a blue header. The form is divided into two columns. The left column contains fields for "Member Last Name", "Member Address", "Loan #", "Loan Amount", and "Monthly Principal and Interest Payment". The right column contains fields for "Member First Name", "Member Email", "Lender", "Interest Rate", and "Monthly Impounded Taxes". Each field has a placeholder text indicating what to enter. At the bottom right of the form, there is a blue "Submit" button and a watermark that says "Activate Windows Go to Settings to activate".

Part 2: Create an API to insert data into the database. All the fields must be considered as given in the form in the picture. You must use Ajax to send data to Node.JS.

Note: Submit Node JS file, Front end file and SQL file with this question. (in case SQL export is not working, attach screenshot of your table structure and data insertion after saving the data from front end)