

**COMSATS** **University Islamabad, Lahore Campus**



**Lab Mid Term – Fall 2021**

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| Course Title: | Web Technologies | | | | Course Code: | | CSC336 | Credit Hours: | 3(2,1) |
| Course Instructor/s: | Muhammad Ali Khan | | | | Program Name: | | BCS | | |
| Semester: | 6th | Batch: | SP19 | Section: | C | | Date: | 22/11/2021 | |
| **Time Allowed:** | **90 minutes** | | | | **Maximum Marks:** | | | **50** | |
| Student’s Name: |  | | | | Reg. No. | CIIT/SDP- /LHR | | | |
| **Important Instructions / Guidelines:**   1. Attempt all the questions. | | | | | | | | | |

Course Learning Outcome and Program Learning Outcome is in the category**:**

**[CLO - C3] [PLO- i1]**

**Question 1: [Marks: 50]**

Implement the following scenario. Requirements are as follows:

1. Use Bootstrap Navbar component for menu – all menu items color is white with primary background color
2. Use Bootstrap Kitchen sink card component for sidebar
3. Place COMSATS logo in “public” folder and access in Kitchen sink card
4. Use Bootstrap form elements for rendering form
5. Validation warning color is red
6. Perform validation on submit and on change events
7. Register button must be disabled till all the required fields are correct
8. You must use any third-party library (for example, Joi) for validation
9. Registration number can be alphanumeric
10. When register button is clicked, then List component is shown at URL “list”
11. List component contains Bootstrap table filled with the data sent from the Register component
12. Home route only shows the Navbar and Kitchen sink card
13. Registration menu on Navbar shows Registration component at URL “registration”
14. If invalid URL is accessed, then “InvalidURL” component is shown with text “Invalid URL – Please try again”

**Note:** You will get maximum marks if:

1. There is less load on components render method
2. Correct component is shown on URL manipulation
3. Inline style is used at least one time in each component
4. Presentation of your final product

**Registration component**

Graphical user interface, text, application, email

Description automatically generated

**List component**

Graphical user interface, text, application, email

Description automatically generated