

**Faculty of Computer Applications and Information Technology**  
**iM. Sc. (IT) – Sem 9**  
**Web Development using MERN Framework**  
**CEC Assignment - 2**

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**Note: Kindly submit your assignment till 19<sup>th</sup> Oct 2025 on the below drive link**

**[https://drive.google.com/drive/folders/1j23mHW\\_gnm019ff0oy3ruLI1uz5ZDNL7?usp=sharing](https://drive.google.com/drive/folders/1j23mHW_gnm019ff0oy3ruLI1uz5ZDNL7?usp=sharing)**

1. Design a Simple Signup Form with fields: Full Name, Email, Mobile Number.
  - Validate that none of the fields are empty.
  - Mobile Number must contain exactly 10 digits.
  - On submission, show the entered data below the form in JSON format.
2. Create an Employee Feedback Form with fields: Employee Name, Department, and Feedback.
  - All fields must be filled before submission.
  - Show an alert “Feedback Submitted” when the form is successfully submitted.
  - Clear all fields after submission.
3. Build a React Router-based app for a College Portal:
  - / → Home Page (college name and motto)
  - /courses → List of available courses
  - /contact → Contact Form (Name + Email + Message)Add a navigation bar and a “Page Not Found” route for invalid URLs.
4. Develop a React Router app for a Restaurant Website:
  - / → Home (Welcome note)
  - /menu → List of dishes offered
  - /book → Table booking form (Name + Date + Time)Include navigation links and a fallback 404 route.
5. Create a simple Todo List using Redux Toolkit to manage tasks.
  - Create a slice todoSlice with an initial state { todos: [] }.
  - Define reducers: addTodo and removeTodo.



Perform the following operations:

- a) Display faculty of "Computer Science".
- b) Increase salary by 15% for all "Assistant Professors".
- c) Delete one record where salary < 30000.

3. Create showroom database with collection cars.

Insert 5 cars having fields: carid, brand, model, price, fueltype.

Perform the following operations:

- a) Find cars where price > 800000 and fuelType = "Petrol".
- b) Change fuelType to "Electric" for brand = "Tata".
- c) Delete a car whose brand = "Tata".

4. Create school database with collection teachers.

Insert 5 records having: teacherid, name, subject, experience.

Perform the following operations:

- a) Display all teacher data.
- b) Find teachers having more than 5 years of experience.
- c) Update subject of one teacher.
- d) Delete one teacher record.