Course Title:	Web Technologies			Course Code:		CSC336	Credit Hours:	4(3,1)
Instructor/s:	Shuja Akbar			Program Name:		BS		
Semester:		Batch:	FA21-BSE	Section:			Date:	28-05-2024
Time Allowed:		3 Hours			Maximum Marks:		50	
Student's Name:				Reg. No.				

Question 1 (CLO - 5)   **25 Marks**

Section 1: Frontend Development

1. Database Setup:
   - Create a MongoDB database named student_records.
   - Create a .env file to store the database connection string.
2. Create Server:
   - Set up an Express server in server.js.
   - Connect to MongoDB using Mongoose.
3. Create Models:
   - Define a Mongoose model for Student with fields: name, age, course, email.
4. Create API Routes:
   - GET /students: Retrieve all student records.
   - POST /students: Add a new student.
   - PUT /students/
     : Update an existing student record.
   - DELETE /students/
     : Delete a student record.

Section 2: Frontend Development

1. Component Structure:
   - Create a folder **components** inside src.
   - Create the following components: StudentList, AddStudent, EditStudent.
2. Setup Routing:
   - Use react-router-dom to set up routes for Home, Add Student, and Edit Student.
3. Fetch and Display Data:
   - In StudentList, use axios to fetch and display all students from the backend.

- Add a button to delete a student, which makes a DELETE request to the backend.
4. Form Handling:
    - In AddStudent, create a form to add a new student. On form submission, send a POST request to the backend.
    - In EditStudent, create a form pre-filled with the student data. On form submission, send a PUT request to update the student details.

Question 2 (CLO -5)   **25 Marks**

Semester Project and Viva Voce.