

Web Component Development: CA2 Class Test

November 17th 10:30 – 12:30

You are required to develop a web application using **React** in conjunction with **JSON-Server** to retrieve and manipulate contact information through a RESTful API. The application must incorporate **React Router** to facilitate navigation between views.

The selection and layout of contact information is left to the user's discretion.

Retrieval of All Contacts (REST GET)

The application must issue a GET request to obtain the complete list of contacts.

For each contact, display: Name, Age, Company, and Friends.

Contact Lookup by Identifier

Provide a search mechanism that allows the user to retrieve a specific contact by entering the contact's **ID**.

The resulting view must display the following fields: Name, Age, Gender, email and phone.

Sorting Functionality

Implement functionality enabling users to sort the contacts by **age**: Ascending and Descending order.

State-Based Filtering

Create a view that lists all contacts associated with the state **Indiana**.

RESTful Deletion Operations

The application must support the removal of contacts with the following IDs: 10, 11 and 15

Marking scheme

Client-side routing	10
Listing all contact info.	10
Contact search by ID	10
Sorting by age in ascending/descending order	10
Gender-based filtering	10
Filter contacts from Indiana	15
REST deletion	10
GUI – use of CSS module	25