

React Application: Using FAKER Package and Code of Ethics

Q.1) Illustrate the Need for the 'faker' Package - CO2 (10 Marks)

In React development, dummy or fake data is often required during the early stages of development, especially when real APIs are not yet available. The 'faker' package helps in generating large amounts of fake data such as names, emails, addresses, phone numbers, and more. It is useful for testing UI layouts, simulating user data, or preparing mock responses. By using 'faker', developers can speed up frontend development and ensure components work correctly with realistic data formats.

Q.2) Small Application Using 'faker' - CO1, CO2 (10 Marks)

Below is a React application that uses the 'faker' library to generate a list of fake users:

```
import React from 'react';
import { faker } from '@faker-js/faker';

function App() {
  const users = Array.from({ length: 5 }, () => ({
    name: faker.name.fullName(),
    email: faker.internet.email(),
  }));

  return (
    <div>
      <h2>Fake User List</h2>
      <ul>
        {users.map((user, index) => (
          <li key={index}>{user.name} - {user.email}</li>
        ))}
      </ul>
    </div>
  );
}

export default App;
```

Input: Generates 5 fake users using 'faker'

Output: Displays them on screen

Q.3) Code of Ethics with Respect to React

A code of ethics guides developers to write responsible, secure, and fair code. In React, this means:

- Respecting user data: Avoid misusing personal data collected via forms or APIs.
- Open-source respect: Give credit to original creators when using third-party libraries.
- Accessibility: Build interfaces that everyone can use, including people with disabilities.
- Security: Avoid risky code that can lead to attacks like XSS.
- Performance responsibility: Make apps fast and smooth for all users.

Following ethics makes the web a safer and fairer place and helps build user trust.