

# React Application: Using moment.js Package and Code of Ethics

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

The 'moment.js' package is used for parsing, validating, manipulating, and formatting dates in JavaScript. In a React application, managing time and date values accurately is important, especially when displaying timestamps, scheduling events, or formatting dates in a user-friendly way. Moment.js simplifies complex operations like converting timezones, calculating relative time (e.g., '3 hours ago'), and formatting dates in different locales. This makes frontend development more efficient and readable.

## Q.2) Small Application Using 'moment.js' - CO1, CO2 (10 Marks)

Below is a simple React component using 'moment.js' to format and display the current date and time:

```
import React from 'react';
import moment from 'moment';

const DateTimeDisplay = () => {
  const now = moment();
  return (
    <div>
      <h2>Current Date and Time</h2>
      <p>{now.format('MMMM Do YYYY, h:mm:ss a')}</p>
      <p>{now.fromNow()}</p>
    </div>
  );
};

export default DateTimeDisplay;
```

Input: None

Output: Displays formatted current date/time and relative time like 'a few seconds ago'

## Q.3) Code of Ethics with Respect to React

A code of ethics in React development means writing clean, fair, and secure code. This includes:

- Accuracy: Display correct and clear time/date info to avoid confusion.
- Transparency: Indicate timezone differences when needed.
- Accessibility: Use readable formats and support localization.

- Open-source respect: Always credit and comply with licenses of packages like moment.js.
- User privacy: Be careful when showing or storing timestamped data linked to users.

These ethics promote trust and responsible coding in React applications.