

# Final Exam Review

- Time: 2.5 hours (10:00 AM – 12:30 PM CST), Thursday (09/28/2023)

## **TOPICS**

### 1. Stateful Functional Component

- Props/State
- Hooks: useState, useEffect, useRef, useMemo, custom hook
- Pure component: React.memo

### 2. Form:

- form: onSubmit
- Input: type, value, name, onChange
- button: onClick

### 3. Routing

- Create a router
- Link
- Navigate
- Exchange data between components in a router: useLocation, useParams, useSearchParams
- loader/useLoaderData

### 4. Context

- Provider vs. Consumer: createContext, provide context, useContext
- useReducer
- localStorage

### 5. Networking

- fetch
- Axios
- How to send data to server using search params, params, or body
- How to add authentication to a request

### **Exam structure**

- Coding: React (100% for MSD, 90% for Compro)
- Bonus question: 10%
- In the exam, you do not need to write 'import/export'
- Compro students will have one more question (10%):
  - + Can be anything you have studied in this course
  - + It is NOT graded for MSD students.