Review for midterm exam

10:00 AM – 12:30 PM, Tuesday (10/10/2023)

1. NodeJS

- Create Restful API using NodeJS Express: Naming convention

2. MongoDB

- CRUD for a new document

+ Create: insertOne

+ Read: find

+ Update: updateOne, updateMany

+ Delete: deleteOne, deleteMany

- CRUD for an array inside a document

+ Create: update with $push

+ Read: find

+ Update: update with $set

+ Delete: update with $pull

3. React Hooks

- **useState, useEffect**, useMemo, useRef, useReducer

- Context: createContext, useContext, provide Context

- Custom Hooks

- pure functional component: React.memo

4. Exam structure

- Understanding the existing code

- Coding: React Functional components, Restful API, CRUD MongoDB

- Compro students will have one more question (10%), but it is not a bonus for MSD students.