TDT Training Curriculum

JavaScript concepts:

- Array and object functions
- Destructuring Arrays and Objects
- Rest and Spread Operators
- Promises(Async/Await, catch, ...) in JavaScript
- Callback Functions in JavaScript
- Error handling
- lodash library functions (link)
- Design patterns (example)

Things to learn before react

While learning React:

Things to focus on:

- What is "state" and "Props"?
- Class and functional components
- Hooks(<u>video</u>)
- different component life cycles and how to interact with them
- What are component re-renderings and how do they work?
- how to trigger re-renderings
- Virtual DOM
- High level component
- Error boundary
- Redux
- Testing

Tips for better code

Code structure

Things to focus on while Coding

- FileName/FolderName
 - File name should represent the component/class
 - Code file should not be large
 - Split main component into few small components
 - o Ex: DropDownComponent -> dropdownList -> Item
 - Move logical functionalities to helper file
 - Ex: Sort/filter array or formatting logic
 - Inline css should be avoided
 - Scss/Css file should have parent class with component-based-name
- Variable/Function name should in readable and understandable

- Ex: showNotification its a flag to show notification(contains boolean value)
- notificationMessage its a string
- Function
- EX: const formattedNotification = formatNotification()
- Variable name should maintain singular/plural status based on value
 - o Ex: Notifications array of notification
 - notificationEntry its an object/hash
- Variable name should be case sensitive
 - Variable as camelCase (for react)
 - Component name should start with capital letter
- Documentation/comments for code
 - Ex: document input/output structure for formatting function
 - Add comments for extra logic (or special case logic)
- Indentation for coding is importation(follow es-lint structure)

```
<div>
<span> inside div</span>
</div>
```

Add TODO comment for future implementation/Refactoring

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Backend:

- Security: Users should not be able to view/edit items that do not belong to them.
- Session: Server Side session. What it is.
- When to use GET and where not to use.
- Server side caching, CDN caching and client side caching
- Migration and Rollback
- Database transaction in SQL