- 1. The tutorial has two series
 - with react hooks
 - with redux
- 2. Use material ui, feature on this CRUD
 - have search input
 - o pagination, and sorting from backend / api
 - o have individual, selected, or batch(all) delete
 - o have confirmation dialog before delete
 - o have some success alert / notification, if create, update or delete is success

3. Code structure

- o for create and update, use one file form, so no duplication/repetition to write form ui and field on create and update
- (question) for field / entities variable can store in some (maybe) like entities folder (post.js, post_category.js) ? so code like this

```
const initialTutorialState = { id: null, category_id: null, name: "",
description: "", published: false }; can use on Table, View, Create or
Update js file, no repetition to define twice
```

- on some form, has a drop down, where it fetches from the database, I'll explain in the database section (post:category_id)
- have photo for upload function

4. Database

- o post_category: id, name, description
- o post:id, category_id, name, slug, content, photo, published, created_at

GitHub Projects

- https://github.com/bezkoder/react-table-crud-example/
- https://github.com/bezkoder/redux-toolkit-example-crud
- https://github.com/bezkoder/react-redux-login-example
- https://github.com/bezkoder/react-pagination-material-ui
- https://github.com/bezkoder/react-table-pagination-server-side
- https://github.com/bezkoder/react-pagination-hooks (https://bezkoder.com/react-pagination-hooks/)
- https://github.com/bezkoder/redux-toolkit-example-crud-hooks (https://www.bezkoder.com/redux-toolkit-crud-react-hooks/)
- https://github.com/bezkoder/react-hooks-redux-crud/ (https://www.bezkoder.com/react-hooks-redux-crud/)

MODULE: **TOPICS**DATA MYSQL DB
API REST API PHP
STATE REACT-REDUX

Main Folder: /app/topic/

Actions /app/topic/actions

Action Types /app/topic/actions/types
Reducers /app/topic/reducers
TopicApp /app/topic/index.js
Topics /app/topic/Topics.js

ROUTES

Topics: /topics

Filter by Category \(\text{category_name} \) / topics \(/mobile / topics \)

Filter by Label {category_name}/topics/{label} /mobile/topics/business

Filter by Post_Status {category_name}/topics/{label}/{post_status}

eg: /mobile/topics/business/pending

Pagination /topics?page_no=1

Actions /app/topic/actions

Questions/Clarifications:

- We use API to connect and get the data and return it via payload.
- How to get additional data as params?
- How do we pass the getTopics() return data to another TYPE filterTopics?

```
export const getTopics = () => async (dispatch) => {
  // console.log(res.data['items']) // need some work here.
    type: GET TOPICS,
  console.log(err);
export const filterTopics = (state, action) => async (dispatch) => {
  dispatch({
    type: FILTER_TOPICS,
```

Reducers /app/topic/reducers

Questions:

- How to identify current topic and return additional params?
- How to return filter topics should it be a separate TYPE or can it be done using the GET_TOPICS type.

```
const TopicReducer = (topics = initialState, action) => {
  const { type, payload } = action;

switch (type) {
  case GET_TOPICS:
    // ** If currentTopic is not null / undefined then find and set currentTopic
  let currTopic = null
    if (topics.currentTopic !== null && topics.currentTopic !== undefined) {
      currTopic = action.data.topics.find(i => i.id === topics.currentTopic.id)
    }

    // return {
        // // ...topics,
        // // filterTopics: topicSlice.actions,
        // // params: action.data.topicsMeta,
        // // params: action.params,
        // // currentMail: currTopic
        // }
    return payload;

case FILTER_TOPICS:
        // ** Find current topic & add hasNextTopic & hasPreviousTopic props to
current topic object based on index
        const data = action.data
        return { ...topics, currentTopic: data }
}
```

app/topic/index.js

Questions:

- How to get getTopics and getCategories from actions and pass it to other components?
- How to set initial data and also filter data?
- How to get currentCategory and currentTopic?

```
import { useDispatch } from "react-redux";
import Topics from "./Topics";
import Categories from "../../category/categories";
// import { filterTopics } from "./store/reducers";
import { getTopics, filterTopics } from "./store/actions";
import { getCategories } from "../../category/store/actions";
const TopicApp = () => {
 const [currentCategory, setCurrentCategory] = useState("");
 const dispatch = useDispatch();
 const categoryChangeHandler = (category) => {
  setCurrentCategory(category);
  if (category === "All Categories") {
    setFilter(false);
    dispatch(filterTopics(category));
  <div className="container">
    <div className="row justify-content-center">
       <div className="category col-md-2">
            categoryChangeHandler={categoryChangeHandler}
```

app/topic/Topics.js

Questions:

- This is the Topics component which is responsible for displaying the getTopics, filterTopics, categories etc.
- Is props the right method?
- How do I get the data from actions & reducers here?

```
import React from "react";
import { useSelector } from "react-redux";
const Topics = props => {
const { filter, store, getTopics } = props
        topics.map((topic) => (
       {filter &&
         filteredTopics.map((topic) => (
```

export default Topics;