**Day 10:**

Passing dynamic value from component to reducer we need to use dispatch() function with type as well as payload attribute.

dispatch({type:”ACTION\_TYPE”,payload:value});

**redux toolkit**

redux toolkit is another third party library base upon redux core. Redux toolkit provided abstract layer for reducer functions.

It provided lot of pre defined function

1. configureStore(): it is equal to createStore()
2. createSlice() : it automatically create action creator and reducer. This function we need to use inside reducer file. Which takes n number of attribute as name,initialState, reducer etc.
3. to call rest api in react we can use fetch() function or axios third party library.
4. With redux if we want to achieve asynchronous communication we need to install third party module it redux-thunk or redux-saga etc.
5. Redux tool kit by default provided third party library ie redux-thunk etc.
6. It provided pre defined function createAyncThunk() function.

npm create vite@latest react-with-redux-toolkit

cd react-with-redux-toolkit

**npm install @reduxjs/toolkit react-redux**

**npm install**

**Consume rest api in react JS**

**Web Service:**

Giving the service for web application when both the application running using different technologies.

**Spring boot : Java**

Amazon -🡪

Payment ---🡪 Paypal python

Paytm .net

Google Pay php

Phone pay node js with express js

Credit card

Net banking

JS object request

App1 XML/JSON App2

Java object response

eXtensible markup language : we share the data in tag format

Json : JavaScript object notation : key – value format

Web Service

1. SOAP Web Service : Simple object access protocol

In SOAP web service we need to consume and produce the data only xml format.

1. Rest Full Web Service: we can consume and produce data in any format base upon client requirement like xml, json, plain text, media type etc.

Consume rest api develop using any language

1. **fetch() function**
2. **axios** third party library

npm create vite@latest consume-fake-restapi

cd consume-fake-restapi

npm install **axios**

npm install