Component
-> Is a smaller section of a larger Entity
-> Comprised of elements
-> Reusability = UI + Biz Logic [Template]
-> Maintenable
-> Testable
-> Configurable
-> Composable

1. Define a template
2. Create an instance of the component

Components

Class Based

Functional

Advantages
Lightweighted
Simple
All capabilities of class based

Components → Data in React → Props / State

Online Training App

App
Single instance of ListOfCourses

ListOfCourses
5 instances of Course
5 items in Array

Course
id
title
price
rating
likes
imageUrl

Props
readonly for the component accepting data
means we cannot change the value of props from within the component
Used to accept data from a parent component

Dev

Props

React - We do not manipulate DOM ourselves !

Change the data

React updates UI

State

state
is a member of the class
is private for a component
when changed reflects the value(change) in UI
is changed by using setState() (class) / useState() (functional component)

Can be used only with functional components

React 16.8 → Hooks → 1. State Hook 2. Effect Hook

Posts ←→ json ←→ Server