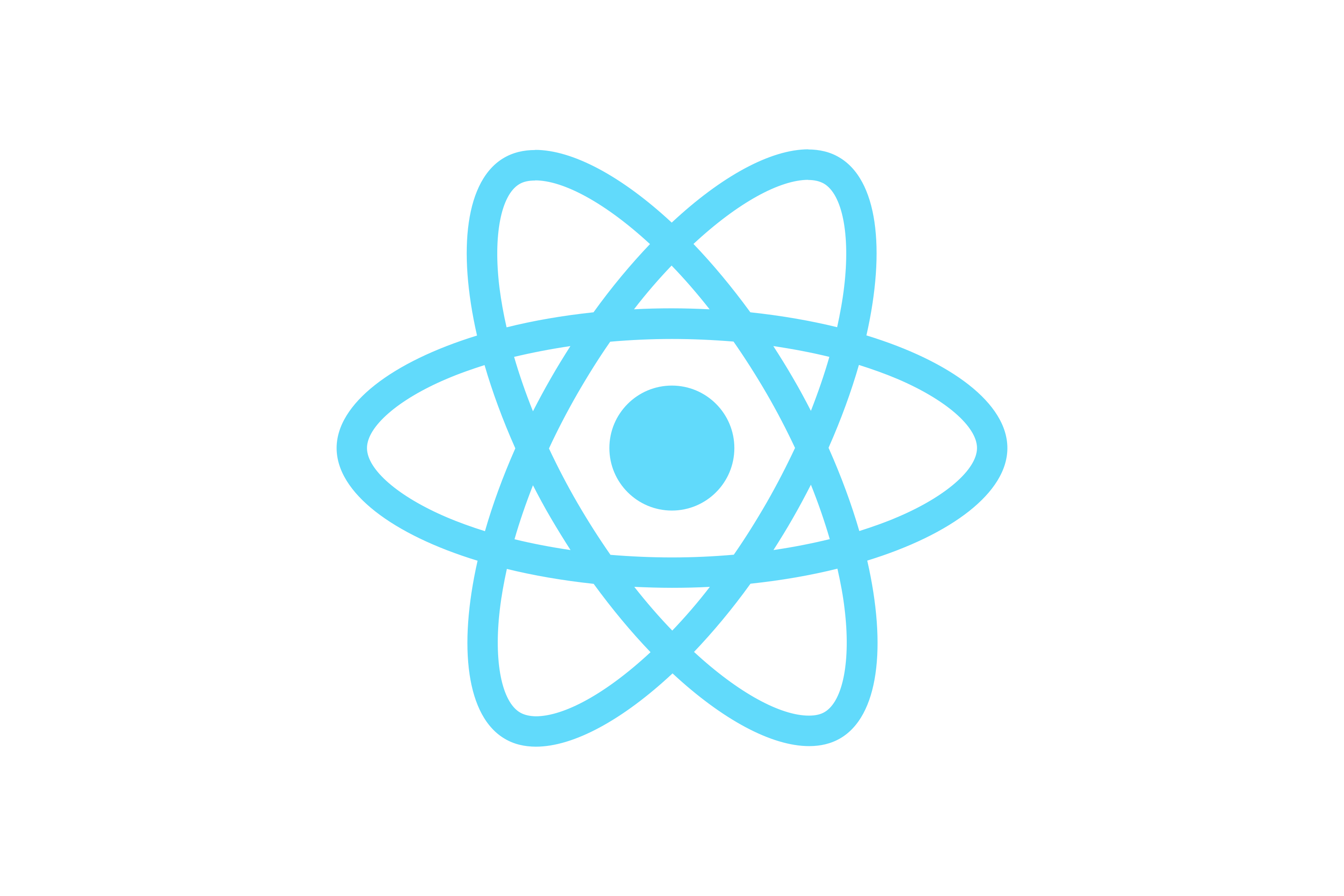
REACT JS FRAMEWORK



React Definition

* React is an open-source JavaScript Library Using for Creation Dynamic and Interactive User Interfaces for web applications
* React Components
  + Component based architecture
  + Declarative Syntex
  + Virtual DOM Optimization
  + Onw Way Data Binding
  + JSX ‘JavaScript XML’ Integration
  + Hooks Employment
* React Installation Steps
  + Install node.js as CMD
  + Install VS Code as Editor
  + npm create vite@latest ‘CMD Command’
  + set name of project’s folder
  + choose ‘react’ as framework
  + choose ‘JavaScript’ as Working Language
  + cd ‘project’s folder name’ ‘CMD Command’
  + npm install ‘CMD Command’
  + npm run dev ‘CMD Command’
    - to run project, will open the given link

React Component

* The Main Block of the react framework
* Render Pieces of the Web Page
* Component features
  + Properties ‘Prop’
    - Manage Passing of data
  + Events
    - Manage DOM of Files
  + States
    - Updating the UI
* Types of Components
  + Functional
    - Written Like JS Functions
    - Return JSX
    - Enable Taken Arguments
  + Class
    - Written Using ES6
    - Data Passing from One to another
    - Use State, props, Lifecycle methods
    - More Complex than Functional
  + Higher Order Component ‘HOC’
    - Reuse Logic
    - Pass Component as Argument
    - Compose Components together

React Class Component

* It is Js Class
* Extends from React.Component class
* Manage State Lifecycle and Method, Events
* Props in Class Component
  + Send data from parent to child
  + Methods are read only, not changeable
  + Can access methods and functions
* States in Class Component
  + Local State
    - Using for only its component to hide or show data
  + Shared State
    - Shared by Multiple Components, as ordering product
* Component Phases
  + Mounting ‘Create Component’
    - Methods Called in Order is

Constructor

GetDerivedStateFromProps

ComponentWillMount

Render

ComponentDidMount

* + Updating ‘Component Changing’
    - Methods Called in Order is

GetDerivedStateFromProps

ShouldComponentUpdate

Render

GetSnapshotBeforeUpdate

ComponentDidUpdate

* + Unmounting ‘Remove Component’
    - Methods Called in Order is

ComponentWillUnMount