•JSX stands for JavaScript XML. Its an XML/HTML like syntax used by React.

•It extends  the ECMA script so that XML or HTML like Text can coexist along with JS React Code. This syntax is used by preprocessor like babel to transform HTML like text found in JS file into standard JS Objects. With JSX you can go a step further by again embedding the HTML code inside JS. This makes HTML code easy to understand and boosts JS performance by making the application robust.

•Reacts render function creates a node tree out of react components then it updates this tree in response to the mutation in DATA MODEL caused by various actions done  either by user or systems.

•Whenever any underline data changes the entire UI is re rendered in the Virtual DOM representation then the difference between the previous DOM representation and the new one is calculated . Once the calculations are done the real DOM will be updated with things that have actually changed. This makes our application must faster and there is no memory wastage.

•State: React views can be used as functions of state. State is an object which determines how a component will render and behave. Thus we can easily manipulate it with the state of component which we pass to the react view and take a look at the output and triggered actions, events functions etc. This makes react application quiet easy to test and debug.

•This allows you to prerender the initial state of the react component at the server side only. With SSR the servers response to the browser becomes  only the  HTML of the page which is now ready to be rendered . Thus the browser can start rendering without having to wait for all the JS to be loaded and executed . As a result the web page loads faster. Here the user will be able to see the real webpage inspite of react still downloading the JS creating the VIRTUAL DOM creating the linking events etc etc at the backend