IAD CLASSWORK

Virtual DOM	Real DOM
It is a ? of the original DOM	It is a ? representation of HTML elements
It is maintained by ? Libraries.	It is maintained by the ? after parsing HTML elements
After manipulation it only re-renders ? .	After manipulation, it re-render the ? .
Updates are lightweight	Updates are heavyweight
Performance is ? and UX is optimised	Performance is ? and the UX quality is low
Highly efficient as it performs ? .	Less efficient due to re-rendering of DOM after ? .

Answer of Virtual Dom

It is a **lightweight copy** of the original DOM.
It is maintained by **JavaScript** Libraries.
After manipulation it only re-renders **the changed parts**
Performance is **high** and UX is optimized.
Highly efficient as it performs **fewer actual DOM manipulations**.

Answer of Real Dom

It is a **tree-like** representation of HTML elements.
It is maintained by the **browser** after parsing HTML elements.
After manipulation, it re-renders **the entire DOM**.
Performance is **low** and the UX quality is low.
Less efficient due to re-rendering of DOM after **every change**.

component, but they are used in different ways and have different characteristics.

Props	State
props (short for "properties") are passed to a component by its parent component and are ____?____ meaning that they cannot be modified by the own component itself. **props acts as an** ____?____ **for a function.** Also, props can be used to ____?____ the behavior of a component and to ____?____ data between components. **The components become** ____?____ **with the usage of props.**	**The state entity** is managed by the component itself and can be ____?____ using the setter(setState() for class components) function. Unlike props, state can be modified by the component and is used to manage the internal state of the component, i.e. state acts as a component's memory. Moreover, changes in the state trigger a re-render of ____?____ .The components ____?____ with the usage of state alone.

Answer of Props blanks

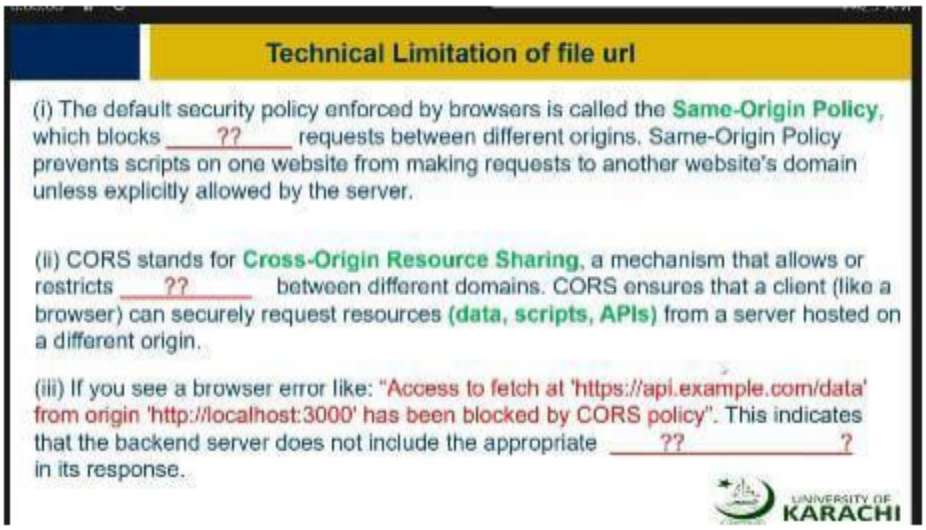
Immutable
Interface
Configure
Reusable

Answer of State blanks

Modified
Component
Become dynamic and interactive

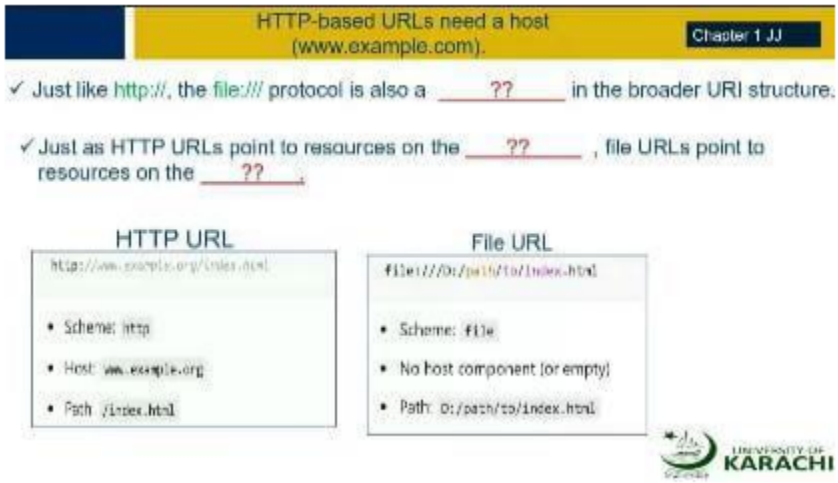
Answers:

Then Access the app at http://localhost:8080
http://localhost:8080 is a *URL (Uniform Resource Locator)* where your app is served (via a server running on port 8080).



Answers:

Cross-origin
cross-origin requests
CORS headers



Answers:

Just like `http://`, the `file://` protocol is also a **URI scheme** in the broader URI structure

Just as HTTP URLs point to resources on the web, file URLs point to resources on the local file system.

1. JSX stands for: **JavaScript XML**
2. Client-side vs. Server-side Rendering:

    - **Client-Side Rendering (CSR):**
      Client-side rendering (CSR) renders content in the user's browser using JavaScript and CSR offers a more dynamic user experience.
    - **Server-Slide Rendering:**
      Server-side rendering (SSR) generates HTML on the server before sending it to the client and SSR improves initial load time and SEO.
3. DOM stands for: **Document Object Model**