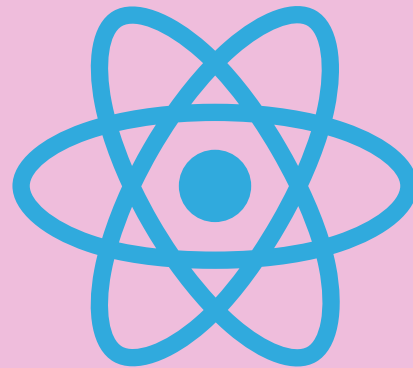
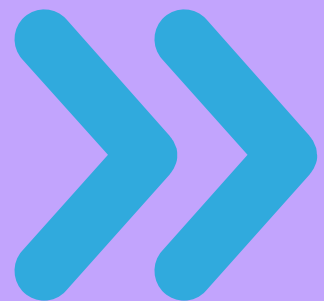


React.js



VS

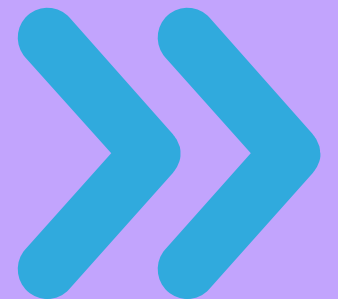
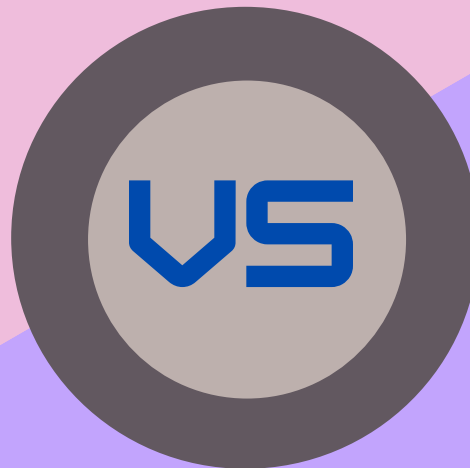
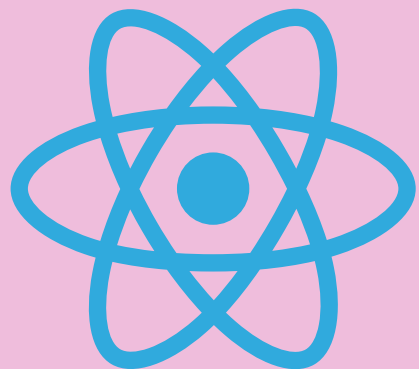
Next.js



Rushika Rai



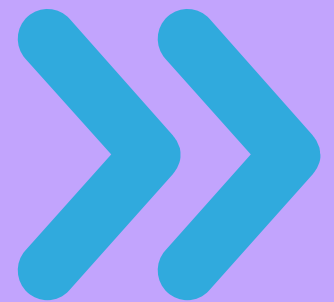
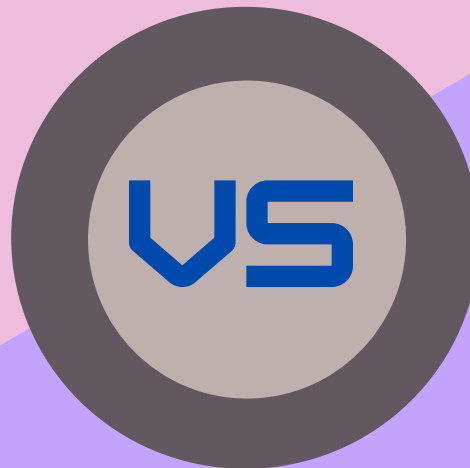
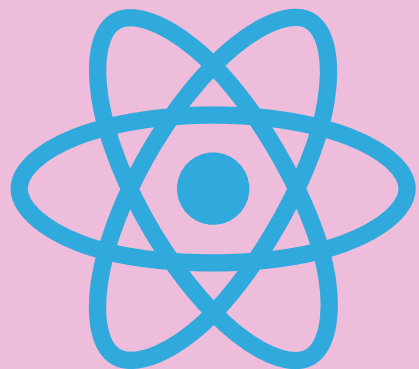
- **Client-Side Rendering(CSR):**React renders components on the client side after the initial HTML is loaded.



- **Server-Side Rendering(SSR):** Next.js can render pages on the server before sending the HTML to the client.
- **Static Site Generation(SSG):** It can generate static HTML at build time for better performance.
- **Incremental Static Regeneration(ISR):** Allows you to update static content after the site is built.



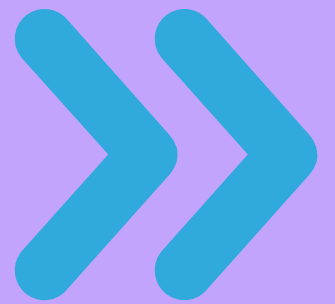
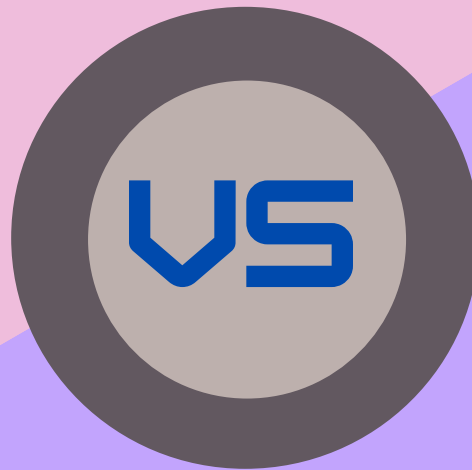
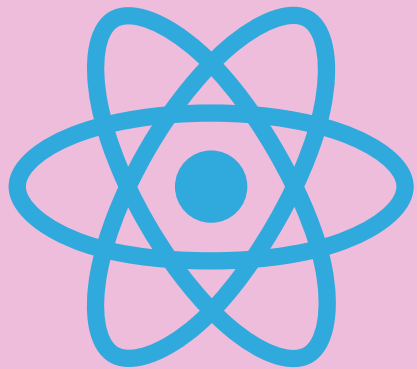
- **Library:** React.js is a JavaScript library for building user interface ,primarily for single-page applications(SPAs)
- **Focus:** It focuses on the view layer of the application(i.e, the component based UI).



- **Framework:** Next.js is a React framework that provides a more complete solution for building web application.
- **Focus:** It includes additional features such as server-side rendering(SSR), static site generation(SSG) & API routes.



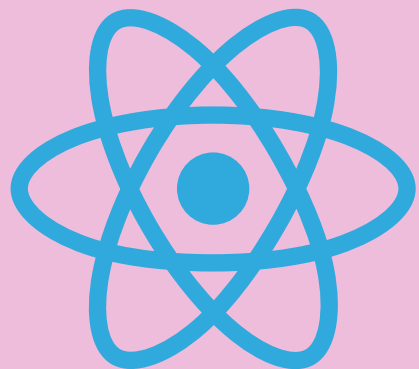
- **Manual Routing:** React itself does not include a built-in routing solution. You typically use libraries like React Router for routing.



- **File-Based Routing:** Next.js has a built-in file-based routing system, which automatically creates routes based on the file structure in the page directory.



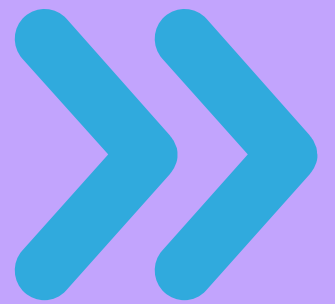
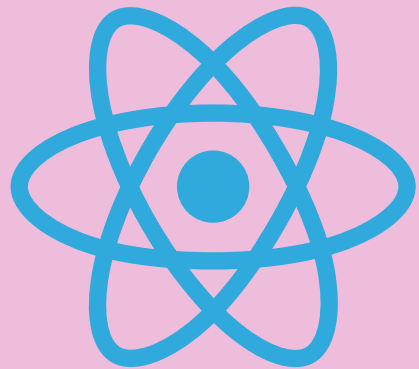
- **Flexible:** Requires more setup & configuration, giving you the flexibility to choose your own tools & structure.
- **Tooling:** Often set up using Create React App(CRA) which provides a standard structure but is still less opinionated compared to Next.js.



- **Convention over configuration:** Comes with built-in conventions & requires less setup, making it easier to get started with common patterns.
- **Pre-Configured:** Provides a lot of configuration out of the box(e.g., webpack, Babel).



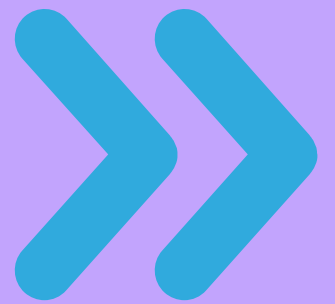
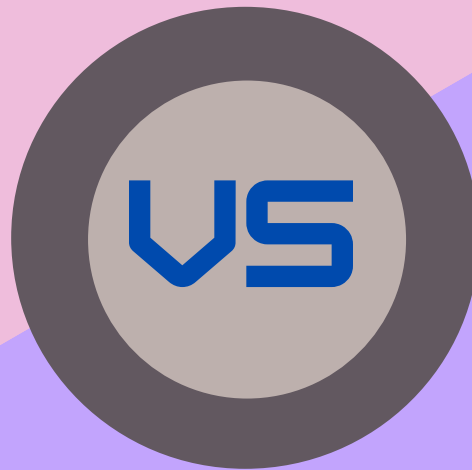
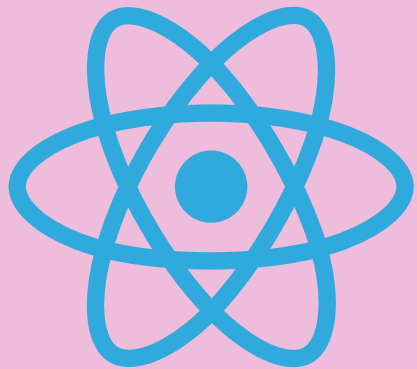
- **Depends on Implementation:** Performance depends on how the developer implements optimizations.



- **Optimized by Default:** Offers optimized performance through SSR,SSG,& code splitting by default.



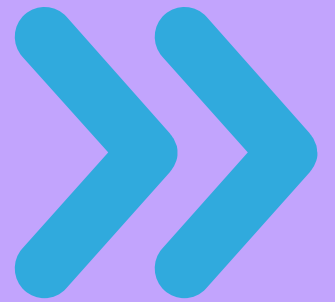
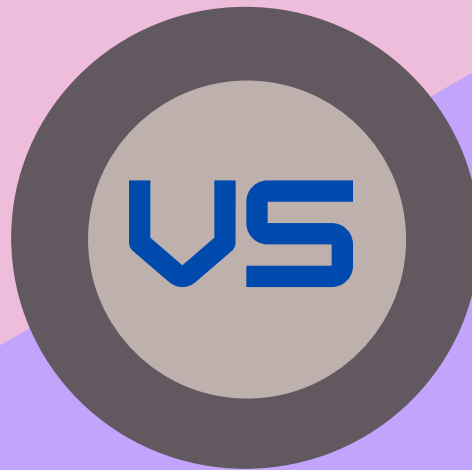
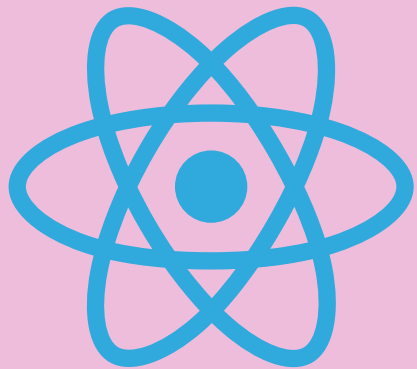
- **External APIs:** React does not handle backend logic or APIs directly. You need to set up a separate backend server.



- **Built-In API Routes:** Next.js allows you to create API routes within the same project, providing a simple way to handle server-side logic & endpoints.



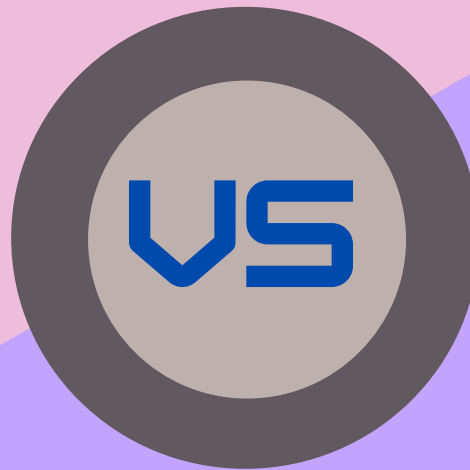
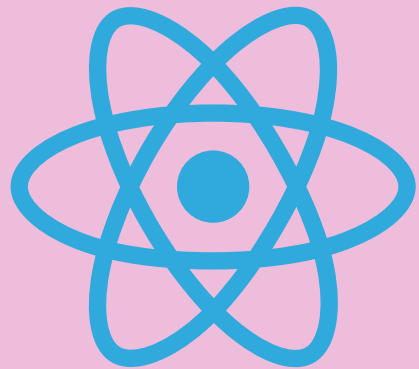
- **Static Files:** Typically results in a bundle of static files that can be served by any static file server.



- **Versatile Deployment:** Can be deployed as a static site, on serverless platforms, or traditional server environments.
- **Vercel:** Officially supported by Vercel for deployment, providing seamless integration & additional features.



- **Component-Based:** Focuses purely on building UI components, which can be integrated into various parts of an application.
- **Component-Based:** Focuses purely on building UI components, which can be integrated into various parts of an application.



- **Full Stack Development:** Supports both frontend & backend development within the same project.
- **Hot Reloading:** Comes with hot reloading out of the box for a smoother development experience.

Thank you!!



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