**What is SPA?**

Single-Page Application  is a website that loads once and changes content without refreshing the whole page (like Gmail or Facebook).

**Benefits of SPA**

* Loads faster after first visit
* Feels like using a mobile app
* Uses less internet data

**What is React?**

A tool (JavaScript library) made by Facebook to build websites easily using reusable pieces called components.

**How React Works**

React breaks websites into small parts (components) that can be reused. It uses a "fake copy" of the webpage to make updates faster.

**SPA vs MPA (Multi-Page Application)**

* **SPA**: Fast, app-like, bad for Google search
* **MPA**: Slower, better for Google search, more secure

**SPA Pros & Cons**

**Good**: Fast, smooth experience, easy to make mobile apps  
**Bad**: Google can't find it easily, uses lots of computer memory, security problems

**Virtual DOM**

A "practice version" of your webpage that React uses to test changes before showing them to users. Makes websites faster.

**React Features**

1. **Components** - Build with LEGO-like pieces
2. **JSX** - Write HTML inside JavaScript
3. **Virtual DOM** - Makes updates super fast
4. **One-way data** - Information flows in one direction only
5. **Hooks** - Special functions to add features
6. **Declarative** - Tell React what you want, it figures out how
7. **Cross-platform** - Works everywhere