What is React, and why do we need React?

What are the challenges in Modern Web Development?

Modern Web Users are using the web from smart Devices more than 80 %

Mobiles, Tabs, etc.

Challenges

1. We need a Unified User Experience.

Unified Experience means an application must have the same experience, behaviour across any device.

Example:

We are watching YouTube on both PC/Laptop, it is working perfectly.

On Mobile through a browser (Mobile browsers are compact).

Earlier, we had to optimize(Compress) the YouTube site to fit on Mobile.

And Mobile Users are unable to use certain facilities. Some are working and some are not working.

Ex: MS Office on Pc/Laptop and Mobile are different.

2. Fluid User Experience

**Smooth Navigation** – Moving between pages or screens feels natural and fast.

**Quick Response** – Buttons, forms, and actions respond instantly with clear feedback.

**Easy to Use** – The design is simple and users understand what to do without confusion.

**Looks Good Everywhere** – Works well and looks consistent on all devices (mobile, tablet, desktop)

3. Loosely coupled and extensible.

Without reinstalling the application, without stopping the application, you just keep the application idle for a few seconds.And add the new features to it.

This type of architecture is called loosely coupled and extensible.

What is the Solution?

Better to build an SPA (Single Page Application).

Example:

