★ 1. What is React.js?

Definition:

- React is an open-source JavaScript library developed by Facebook.
- It's used for building user interfaces, especially for single-page applications (SPAs).
- React focuses on the **view layer** in the **MVC** (Model-View-Controller) architecture.

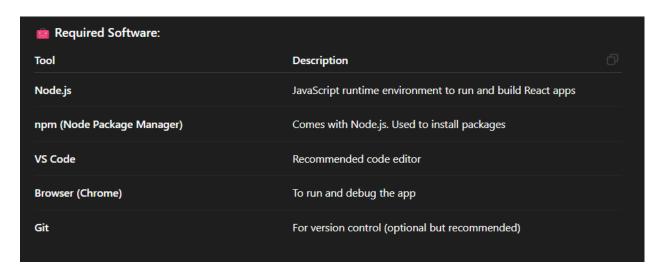
W Key Features:

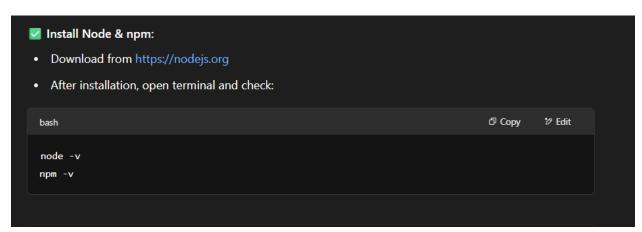
- Component-Based: Build encapsulated components that manage their own state.
- **Declarative**: Describe what you want to show, React handles the rest.
- Virtual DOM: Optimizes updates and rendering.
- Reusable Code: Modular and maintainable structure.

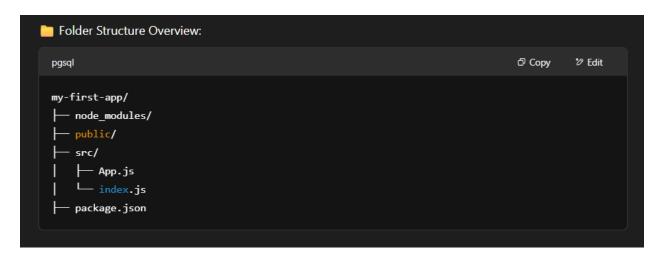
Real-World Examples:

- Facebook News Feed
- Instagram Web App
- Netflix Web Interface
- Airbnb dashboard

📌 2. Prerequisites & Tools to Work with React







📌 4. Terminal / CLI Basics for React Developers	
Command	Purpose
cd foldername	Navigate into a folder
mkdir foldername	Create a new folder
npm start	Start development server
npm run build	Create optimized production build
npm install package-name	Install additional npm package
code .	Open current folder in VS Code (if configured)

★ 5. MVC Frameworks vs React

- Short Explanation:
- MVC stands for Model-View-Controller.
 - Model Manages data
 - View Displays data (UI)
 - Controller Handles input and business logic
- React focuses only on the View layer, and it can integrate with MVC frameworks.
- Iterating React into MVC:
- Example: Using React as frontend and Laravel/Express/Django as backend
- React handles the UI (View), and backend handles Models and Controllers

```
• • •
// src/App.js
function App() {
  return (
    <div>
     <h1>Hello, React!</h1>
      This is my first React app.
    </div>
  );
export default App;
                                        snappify.com
```

src/App.js (Modified)

```
import React from 'react';
function HelloWorld() {
   <div>
     <h1>Hello, World!</h1>
     Welcome to your first React component.
   </div>
export default HelloWorld;
```

src/index.js (modified)

Classroom Activity:



Cka mësuam sot?

