



Web Technology & To-Do List App

Understanding Web Technology and Building a Simple Task Manager

Submitted By:

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Introduction

- **What is it?** Web technology refers to the tools and languages used to create websites and web applications.
- **Significance:** It powers the internet, allowing global communication, commerce, and collaboration.
- **Goal:** Understanding web technology helps in creating interactive, user-friendly applications like To-Do lists.



Components of Web Technology



Frontend

HTML: Structure of webpages.

CSS: Styling and layout.

JavaScript: Interactivity.



Backend

Server & Application logic.

Languages: Python, Java, PHP,

Node.js.



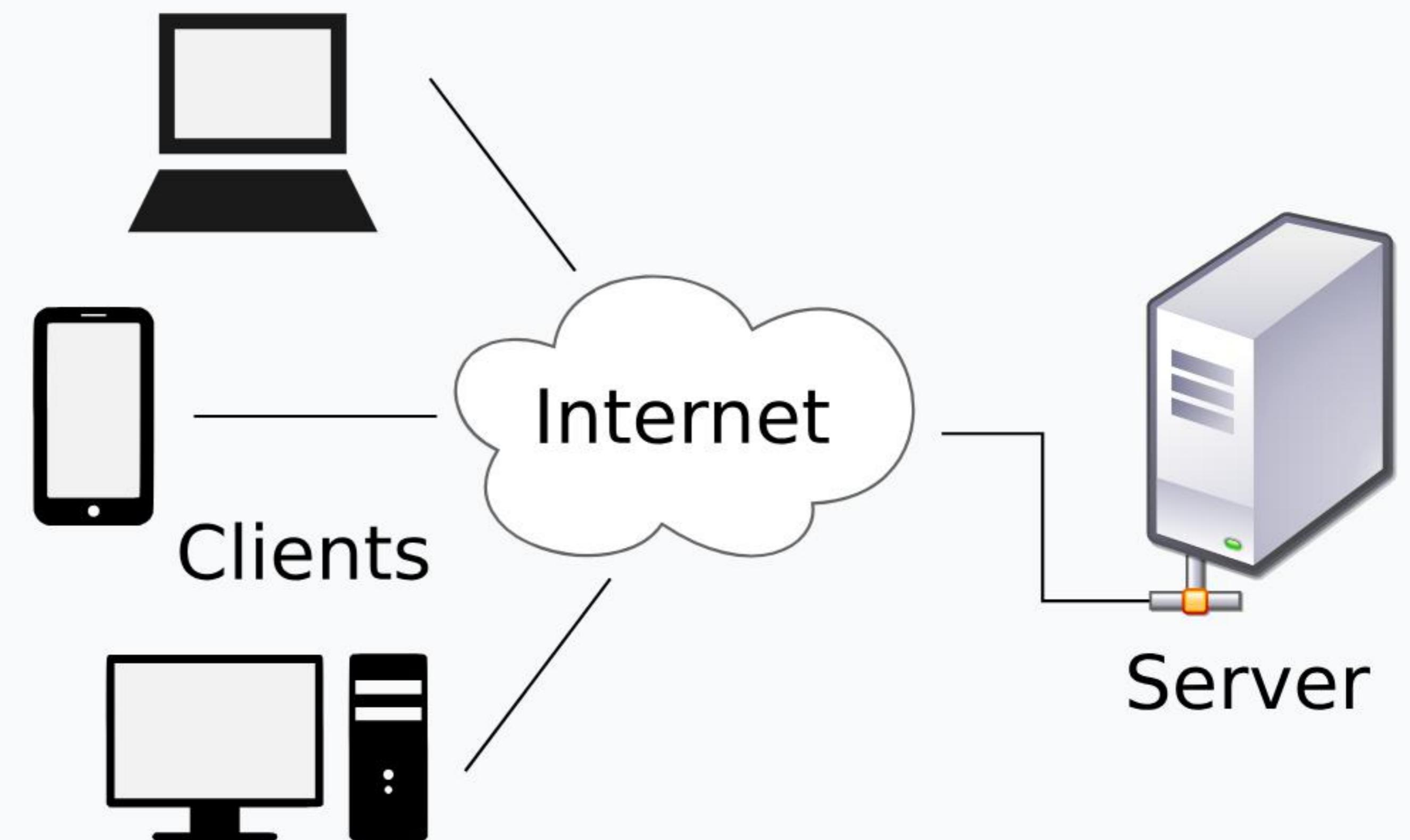
Database

Stores user data and app info.

Examples: MySQL, MongoDB.

How Web Technology Works

- 1. User Action:** User opens browser and requests a page from server.
- 2. Processing:** Server processes the request and retrieves data from database.
- 3. Response:** Server sends the response back to the client.
- 4. Rendering:** Browser renders the webpage and user interacts with frontend.



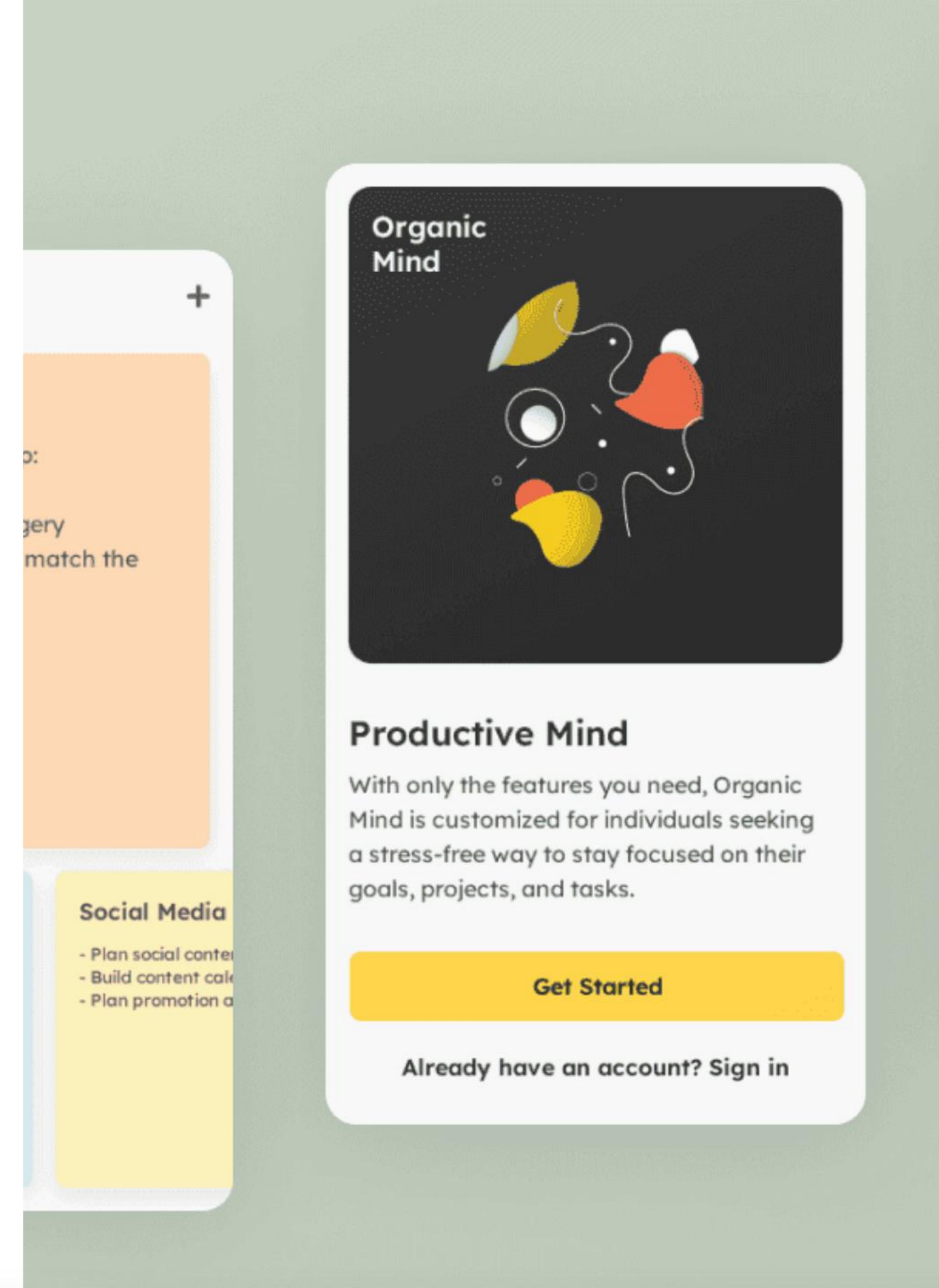
To-Do List App Overview

A web application designed for efficiently managing tasks or daily activities.

Key Features:

- Add, delete, and update tasks.
- Mark tasks as complete.
- Save tasks for later (Local Storage).

Purpose: Organize workflow and increase productivity.



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Tools & Technologies



Frontend

The visual interface the user interacts with.

HTML, CSS, JavaScript

Library: Bootstrap (for styling)



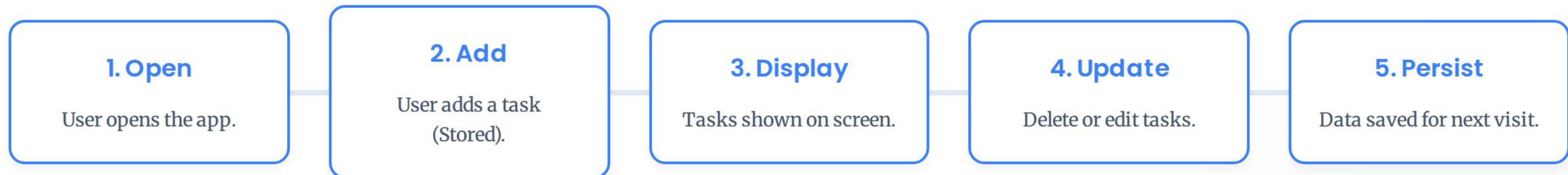
Backend & Data

Where the logic runs and data lives.

Optional: Node.js, Python, PHP

Storage: MySQL, Firebase, or localStorage

Workflow of To-Do App



Example Code Snippet (Frontend)

How Adding a Task Works

This JavaScript function retrieves the value from the input field.

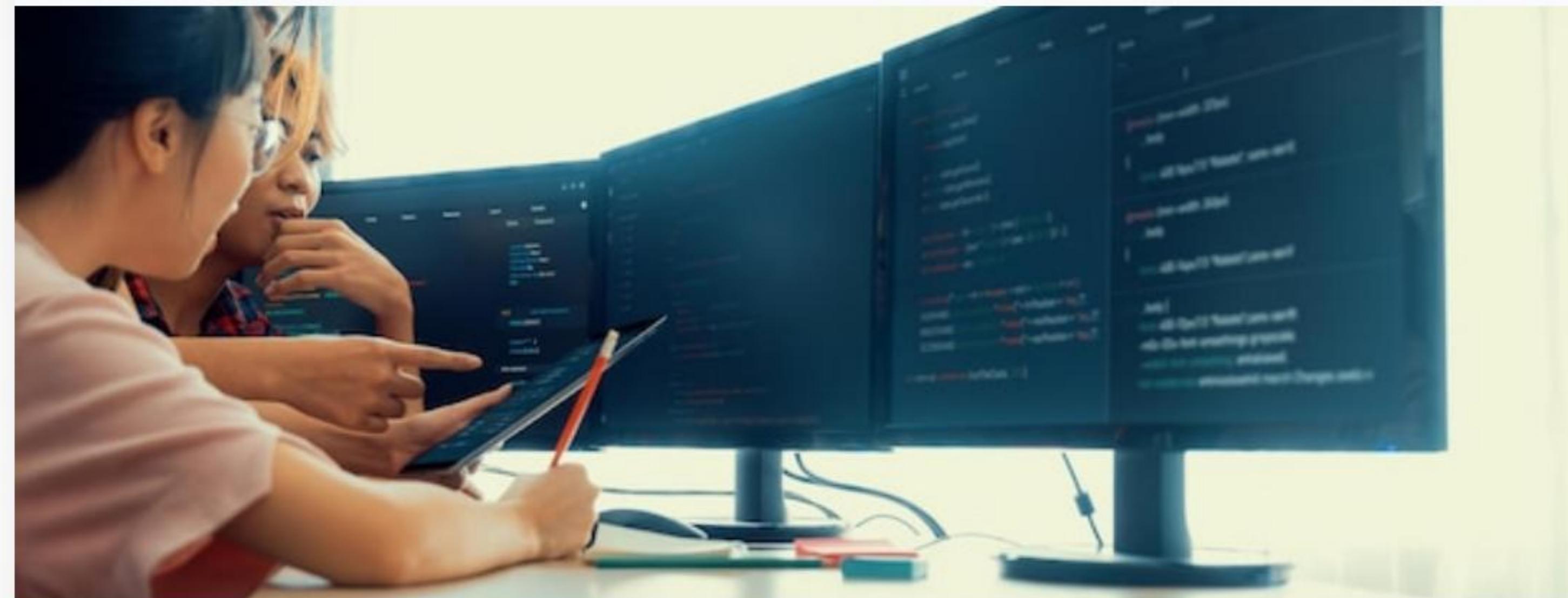
It then creates a new list item () and appends it to the main list (), dynamically updating the DOM without reloading the page.

```
type="text" id="taskInput">  
onclick="addTask()">Add  
  
function addTask() {  
  let task =  
    document.getElementById('taskInput').value;  
  if(task){  
    let li = document.createElement('li');  
    li.textContent = task;  
    document.getElementById('taskList').appendChild(  
      li  
    )  
  }  
}
```

Advantages of Web-Based Apps

-  **Accessible Anywhere:** Available on any device with an internet connection.
-  **Easy Updates:** Changes are deployed instantly to all users.
-  **Integration:** Can connect with calendars, email, and reminders.
-  **Lightweight & Fast:** No installation required; runs directly in the browser.

Conclusion



Web technology makes it possible to build interactive applications like To-Do lists.

Learning web tech is **crucial** for modern development careers.

A To-Do list is a practical project to apply both **frontend** (UI) and **backend** (Logic) concepts effectively.



Thank You!

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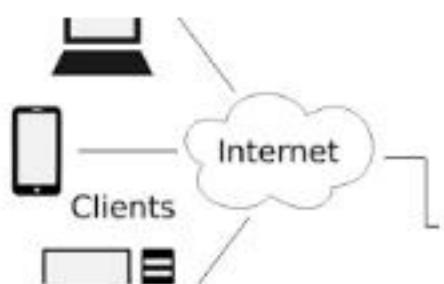
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Image Sources



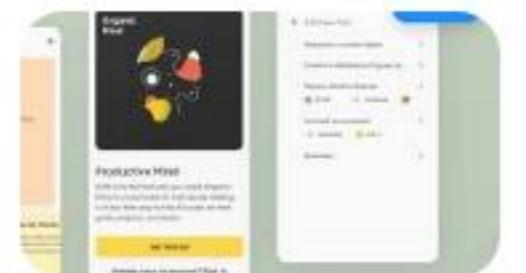
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