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**COMPLETED THE PHASE II**  
**“PORTFOLIO WEBSITE”**

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# Solution Design & Architecture

## TechStack Selection

portfolio website focused on Tech Stack Selection — that means the site should mainly highlight the technologies you use (Frontend, Backend, Database, Tools, etc.) along with your projects.

👉 For example:

- Frontend: HTML, CSS, React
- Backend: Node.js, Express
- Database: MongoDB, MySQL
- Tools: Git, Docker, VS Code

In the portfolio, we'll:

1. Show your Tech Stack clearly in a dedicated section.
2. Under each project, also display the stack used.
3. Use either simple lists/tags or advanced cards with icons (React, Node.js, DB logos, etc.).

## UI Structure / API Schema Design

📋 Header: Your name + tagline (UI/UX & API Designer).

📋 Sections:

1. About Me – 2–3 lines.
2. UI Structure – simple list/tree of UI components.
3. API Schema Design – small example request/response.

#### 4. Contact – email or LinkedIn link.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Portfolio - UI & API Design</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      margin: 0; padding: 0;

      background: #f5f5f5;

      color: #333;

    }

    header {

      background: #2d89ef;

      color: white;

      padding: 20px;

      text-align: center;

    }

    section {

      padding: 20px;

      margin: 15px;
```

```
    background: white;
    border-radius: 8px;
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);
}
h2 { color: #2d89ef; }
pre {
    background: #eee;
    padding: 10px;
    border-radius: 5px;
    overflow-x: auto;
}
footer {
    text-align: center;
    padding: 10px;
    background: #2d89ef;
    color: white;
}
</style>
</head>
<body>

<header>
```

```
<h1>My Portfolio</h1>
<p>UI Structure & API Schema Design</p>
</header>
```

```
<section>
  <h2>About Me</h2>
  <p>Hello! I design clean user interfaces and well-
structured APIs for modern applications.</p>
</section>
```

```
<section>
  <h2>UI Structure Example</h2>
  <pre>
App
├── Header
├── Dashboard
│   ├── Sidebar
│   └── MainContent
└── Footer
  </pre>
</section>
```

<section>

<h2>API Schema Example</h2>

<p><b>Endpoint:</b> <code>GET  
/api/users</code></p>

<pre>

Request:

GET /api/users

Response:

```
{  
  "id": 1,  
  "name": "John Doe",  
  "email": "john@example.com"  
}
```

</pre>

</section>

<section>

<h2>Contact</h2>

<p>Email: <a  
href="mailto:youremail@example.com">youremail@  
example.com</a></p>

```
<p>LinkedIn: <a
href="#">linkedin.com/in/yourprofile</a></p>
</section>
```

```
<footer>
<p>© 2025 My Portfolio</p>
</footer>
```

```
</body>
</html>
```

## Data Handling Approach

### Sections in the Portfolio

#### 1. Header / Title

- o Your name + tagline (Data Handling & Backend Design).

#### 2. About Me

- o Short intro about your expertise in managing and processing data.

#### 3. Data Handling Approach (main part 🏆)

- o Step-by-step process (Collect → Validate → Store → Process → Visualize).
- o Example of raw vs cleaned data.
- o Mention tools you use (e.g., Python, Pandas, SQL, MongoDB, PowerBI, Excel).

#### 4. Projects

- o Each project should mention:
  - Problem (what kind of data).
  - How you handled it (approach).
  - Outcome (report, dashboard, API, etc.).

## 5. Contact

- o Email / LinkedIn / GitHub link.

## Component / Module Diagram

### 1. Introduce the section

- o Add a heading like “Component / Module Design”.
- o Short description: “I design applications by dividing them into reusable modules/components for better maintainability.”

### 2. Show Diagram

- o You can either:
  - Use a simple ASCII/tree structure (lightweight).
  - Or embed an SVG / image diagram.

### 3. Explain briefly

- o Add 2–3 lines about how these modules interact.

<section>

<h2>Component / Module Diagram</h2>

<p>This diagram shows how I organize application modules for scalability and clarity.</p>

<pre>

App

└─ User Module



```

|  |— Login Component |
└─ Profile Component  |—
Product  Module  |  |—
Catalog  Component |  └─
Cart Component └─ Shared
Module
    └─ Navbar Component

```

</pre>

</section>

Example (Diagram Image in Portfolio)

If you already have a diagram (PNG/SVG), just embed it:

<section>

<h2>Component / Module Diagram</h2>



<p>Each module is independent but connected through a shared data flow and API layer.</p>

</section>

## Basic Flow Diagram

How to Add a Flow Diagram in Portfolio

You can show it in two simple ways:

1. Text / ASCII Flow (lightweight, no images needed)

<section>

<h2>Basic Flow Diagram</h2>

<p>This diagram shows the basic flow of my application design.</p>

<pre>

User → UI Form → API Request → Database → API Response → Dashboard

</pre>

</section>

Image / SVG Flow (more visual)

If you make a diagram in draw.io, Figma, or any tool, export it as PNG/SVG and embed:

<section>

<h2>Basic Flow Diagram</h2>



<p>The system flow begins with user input, processes data through APIs, stores it in the database, and visualizes the results.</p>

</section>

Example Portfolio Structure with Flow Diagram

1. Header – Name + tagline
2. About Me – Short intro
3. Data Handling Approach – steps
4. Basic Flow Diagram – (ASCII or Image)
5. Projects – Example projects + flows
6. Contact

