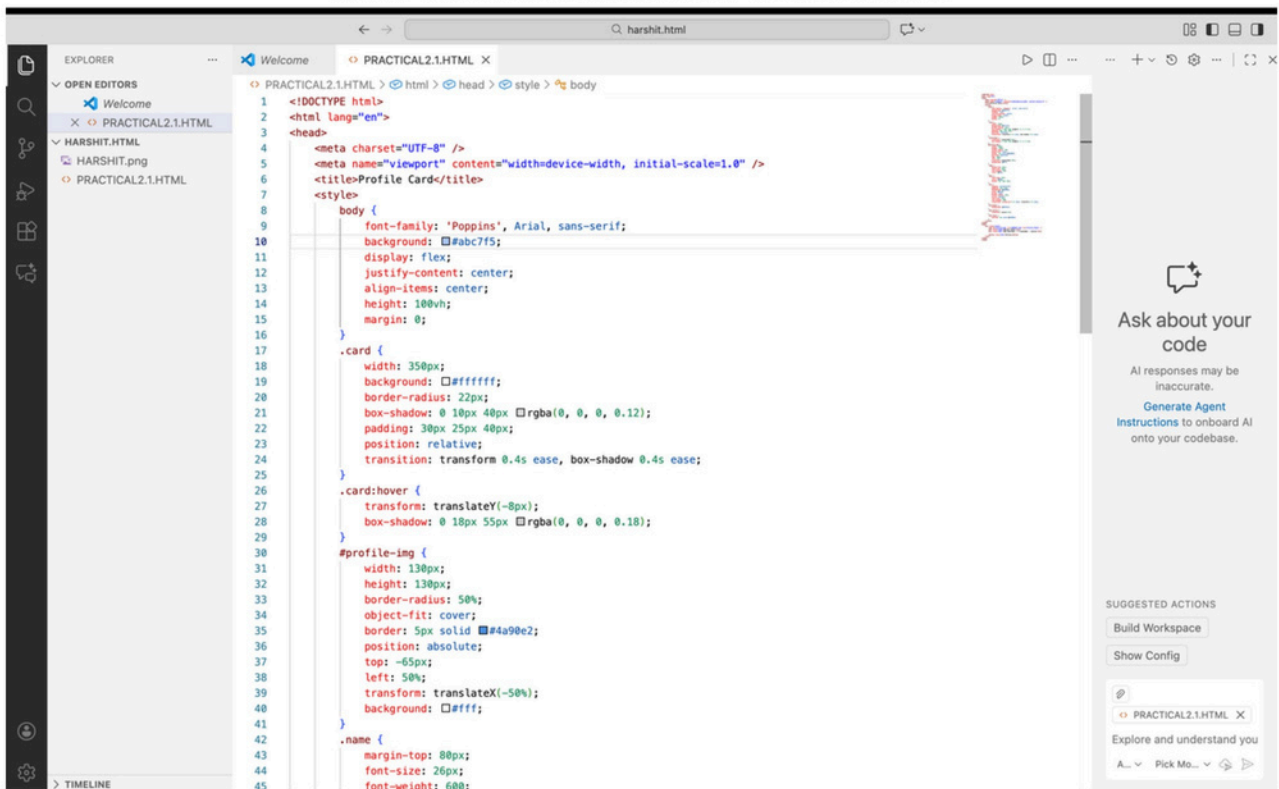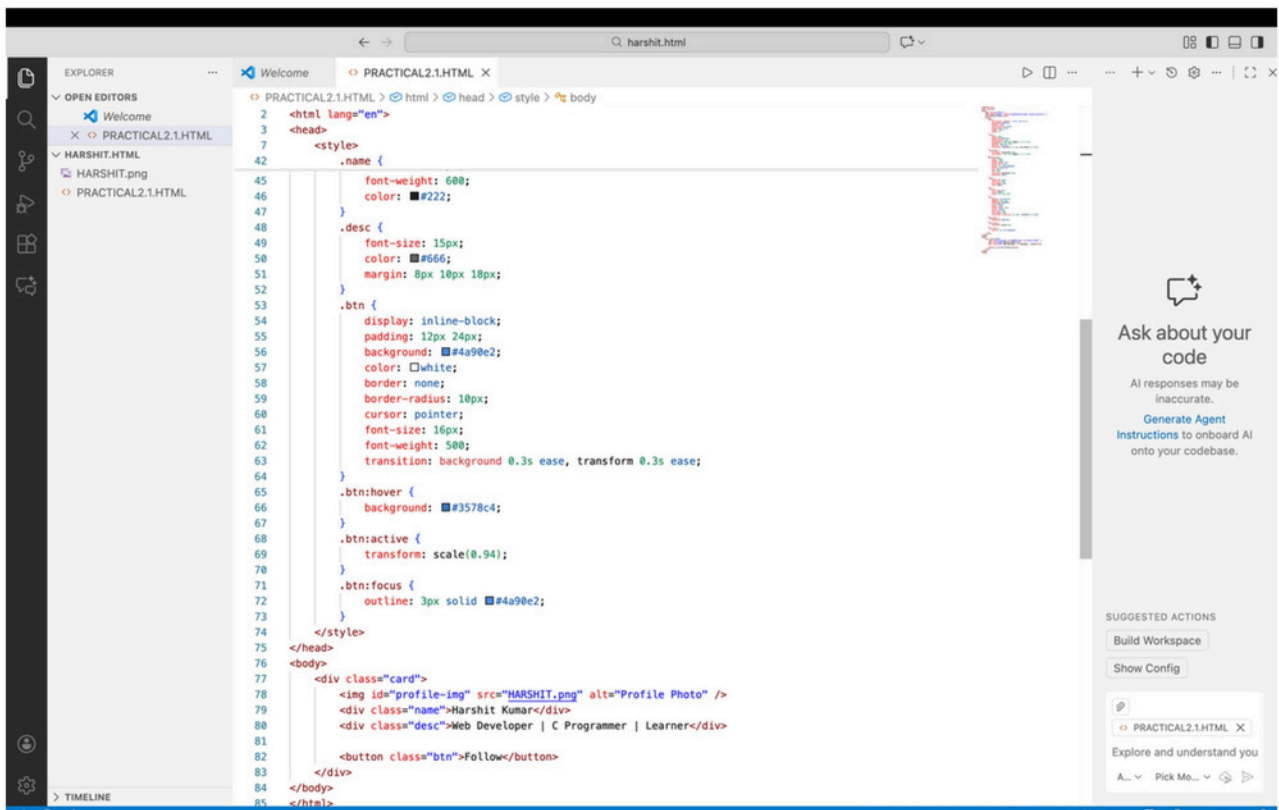## 2.1 Create a profile card webpage and style it using:
selectors (element, class, id), fonts, colors, background, box model, display types, position (relative + absolute), pseudo-classes (:hover, :active, :focus), and transitions with transform
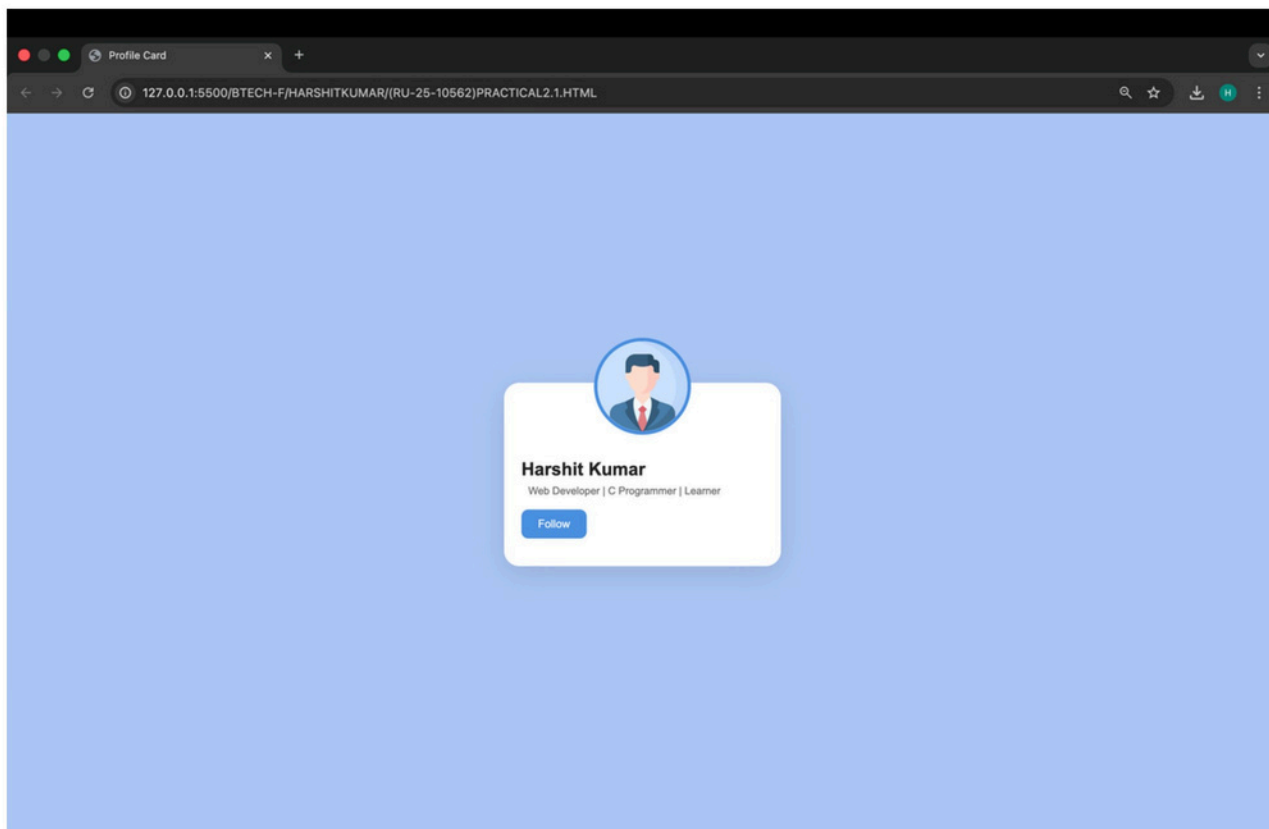


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Profile Card</title>
    <style>
        body {
            font-family: 'Poppins', Arial, sans-serif;
            background: #abc7f5;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        .card {
            width: 350px;
            background: #ffffff;
            border-radius: 22px;
            box-shadow: 0 10px 40px rgba(0, 0, 0, 0.12);
            padding: 30px 25px 40px;
            position: relative;
            transition: transform 0.4s ease, box-shadow 0.4s ease;
        }
        .card:hover {
            transform: translateY(-8px);
            box-shadow: 0 18px 55px rgba(0, 0, 0, 0.18);
        }
        #profile-img {
            width: 130px;
            height: 130px;
            border-radius: 50%;
            object-fit: cover;
            border: 5px solid #4a90e2;
            position: absolute;
            top: -65px;
            left: 50%;
            transform: translateX(-50%);
            background: #fff;
        }
        .name {
            margin-top: 80px;
            font-size: 26px;
            font-weight: 600;
```
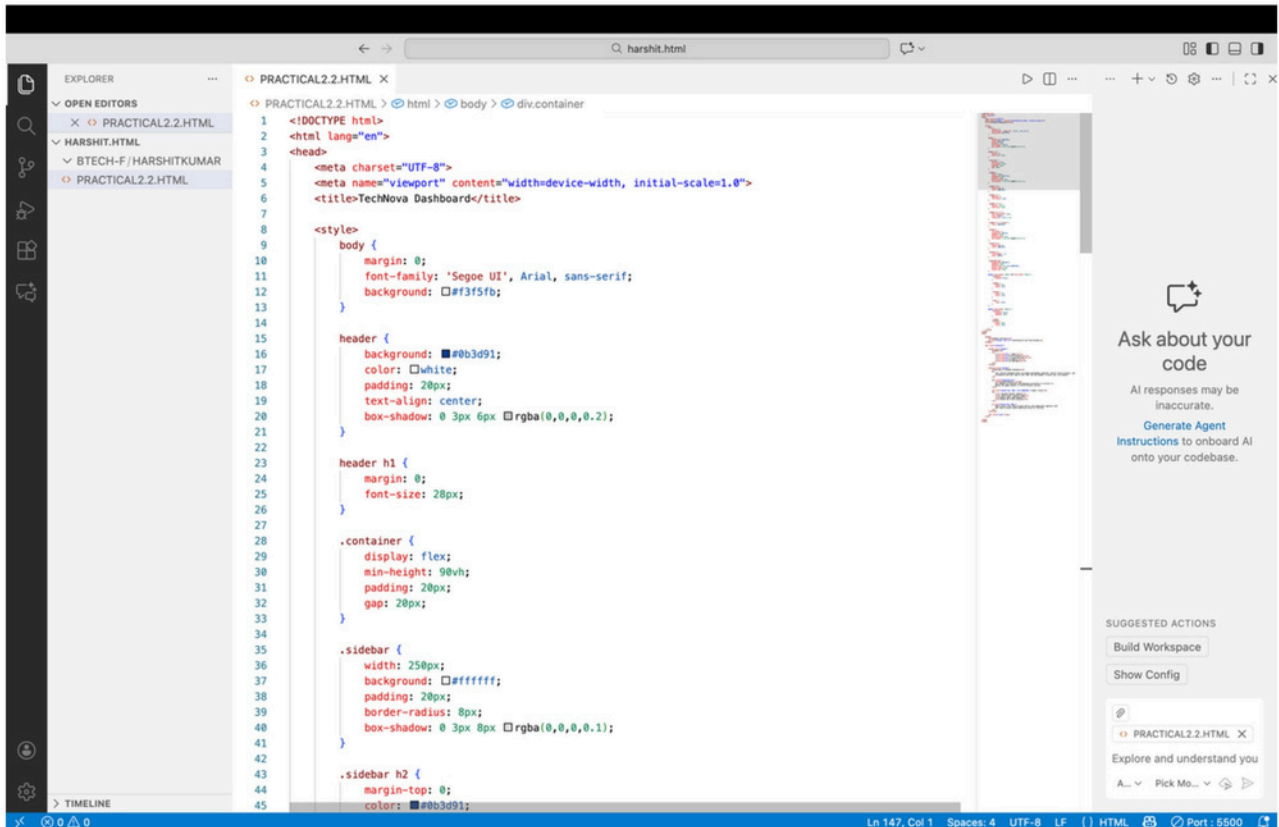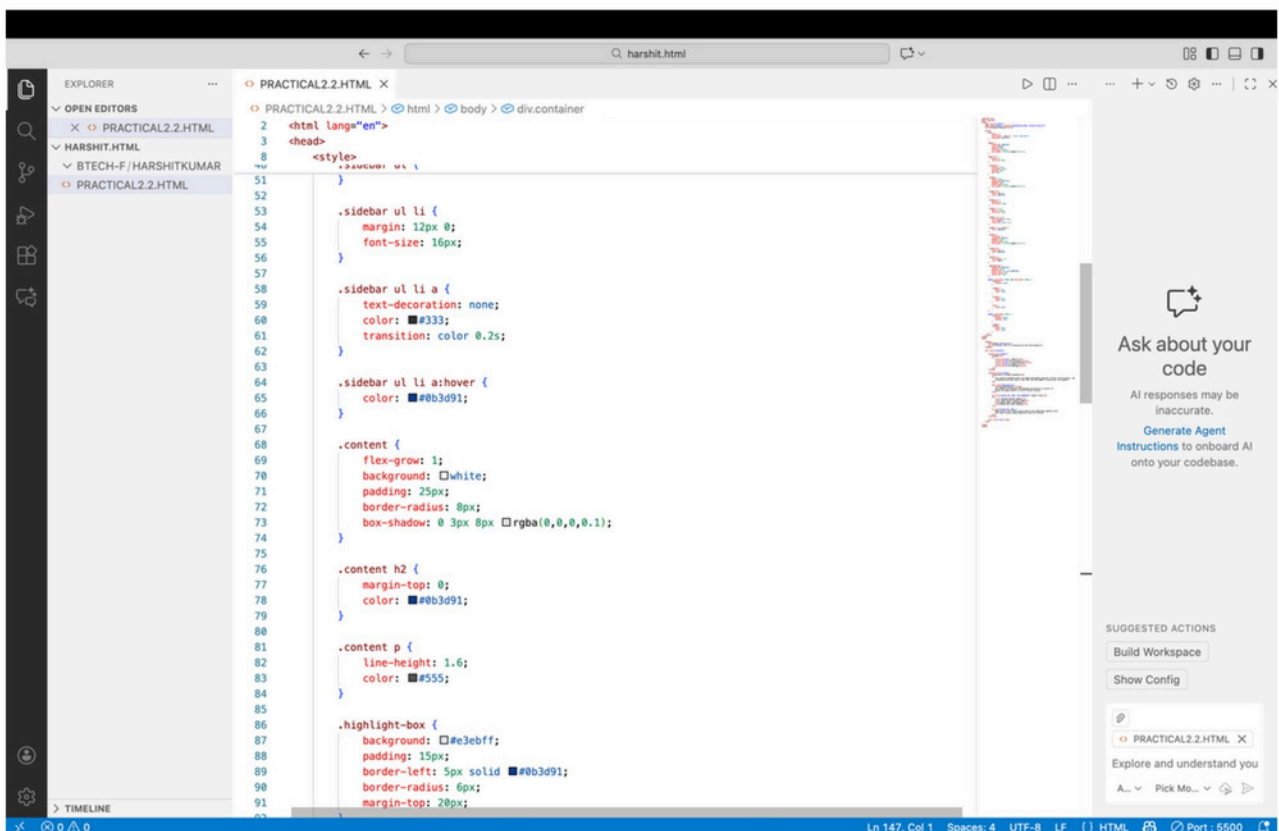


```html
<html lang="en">
<head>
    <style>
        .name {
            font-weight: 600;
            color: #222;
        }
        .desc {
            font-size: 15px;
            color: #666;
            margin: 8px 10px 18px;
        }
        .btn {
            display: inline-block;
            padding: 12px 24px;
            background: #4a90e2;
            color: white;
            border: none;
            border-radius: 10px;
            cursor: pointer;
            font-size: 16px;
            font-weight: 500;
            transition: background 0.3s ease, transform 0.3s ease;
        }
        .btn:hover {
            background: #3578c4;
        }
        .btn:active {
            transform: scale(0.94);
        }
        .btn:focus {
            outline: 3px solid #4a90e2;
        }
    </style>
</head>
<body>
    <div class="card">
        <img id="profile-img" src="HARSHIT.png" alt="Profile Photo" />
        <div class="name">Harshit Kumar</div>
        <div class="desc">Web Developer | C Programmer | Learner</div>

        <button class="btn">Follow</button>
    </div>
</body>
</html>
```

Harshit Kumar

Web Developer | C Programmer | Learner

Follow

2.2. Create a responsive layout with header, sidebar, and content using flexbox, float + clear, and media queries (different layouts for <600px, 600–900px, and >900px).


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>TechNova Dashboard</title>

    <style>
        body {
            margin: 0;
            font-family: 'Segoe UI', Arial, sans-serif;
            background: #f3f5fb;
        }

        header {
            background: #0b3d91;
            color: white;
            padding: 20px;
            text-align: center;
            box-shadow: 0 3px 6px rgba(0,0,0,0.2);
        }

        header h1 {
            margin: 0;
            font-size: 28px;
        }

        .container {
            display: flex;
            min-height: 90vh;
            padding: 20px;
            gap: 20px;
        }

        .sidebar {
            width: 250px;
            background: #ffffff;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 3px 8px rgba(0,0,0,0.1);
        }

        .sidebar h2 {
            margin-top: 0;
            color: #0b3d91;
```



```html
<html lang="en">
<head>
    <style>
        .sidebar ul {
        }

        .sidebar ul li {
            margin: 12px 0;
            font-size: 16px;
        }

        .sidebar ul li a {
            text-decoration: none;
            color: #333;
            transition: color 0.2s;
        }

        .sidebar ul li a:hover {
            color: #0b3d91;
        }

        .content {
            flex-grow: 1;
            background: #white;
            padding: 25px;
            border-radius: 8px;
            box-shadow: 0 3px 8px rgba(0,0,0,0.1);
        }

        .content h2 {
            margin-top: 0;
            color: #0b3d91;
        }

        .content p {
            line-height: 1.6;
            color: #555;
        }

        .highlight-box {
            background: #e3ebff;
            padding: 15px;
            border-left: 5px solid #0b3d91;
            border-radius: 6px;
            margin-top: 20px;
```

Screenshot 1:

```
EXPLORER                          PRACTICAL2.2.HTML ×
> OPEN EDITORS                    PRACTICAL2.2.HTML > html > body > div.container
  X  PRACTICAL2.2.HTML       2      <html lang="en">
> HARSHIT.HTML                3      <head>
  > BTECH-F / HARSHITKUMAR    8          <style>
    PRACTICAL2.2.HTML        93
                             94          @media (max-width: 900px) and (min-width: 600px) {
                             95              .container {
                             96                  display: block;
                             97              }
                             98
                             99              .sidebar {
                            100                  width: 30%;
                            101                  float: left;
                            102              }
                            103
                            104              .content {
                            105                  width: 70%;
                            106                  float: left;
                            107              }
                            108
                            109              .clear {
                            110                  clear: both;
                            111              }
                            112          }
                            113
                            114          @media (max-width: 600px) {
                            115              .container {
                            116                  display: block;
                            117                  padding: 10px;
                            118              }
                            119
                            120              .sidebar,
                            121              .content {
                            122                  width: 100%;
                            123                  float: none;
                            124              }
                            125          }
                            126          </style>
                            127      </head>
                            128      <body>
                            129
                            130          <header>
                            131              <h1>TechNova Solutions</h1>
                            132              <p style="margin: 5px 0 0;">Innovating AI and Cloud Systems</p>
                            133          </header>
                            134
```

Ln 147, Col 1   Spaces: 4   UTF-8   LF   {} HTML   Port : 5500

Ask about your code
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

SUGGESTED ACTIONS
Build Workspace
Show Config

Screenshot 2:

```
EXPLORER                          PRACTICAL2.2.HTML ×
> OPEN EDITORS                    PRACTICAL2.2.HTML > html > body > div.container
  X  PRACTICAL2.2.HTML       2      <html lang="en">
> HARSHIT.HTML                3      <head>
  > BTECH-F / HARSHITKUMAR    8          <style>
    PRACTICAL2.2.HTML       126          </style>
                            127      </head>
                            128      <body>
                            129
                            130          <header>
                            131              <h1>TechNova Solutions</h1>
                            132              <p style="margin: 5px 0 0;">Innovating AI and Cloud Systems</p>
                            133          </header>
                            134
                            135          <div class="container">
                            136
                            137              <aside class="sidebar">
                            138                  <h2>Menu</h2>
                            139                  <ul>
                            140                      <li><a href="#">🏠 Home</a></li>
                            141                      <li><a href="#">🤖 AI Projects</a></li>
                            142                      <li><a href="#">☁ Cloud Services</a></li>
                            143                      <li><a href="#">📊 Reports</a></li>
                            144                      <li><a href="#">⚙ Settings</a></li>
                            145                  </ul>
                            146              </aside>
                            147
                            148              <section class="content">
                            149                  <h2>Welcome to TechNova Dashboard</h2>
                            150                  <p>
                            151                      This internal dashboard helps you manage development pipelines, monitor active projects, and
                            152                      collaborate with your team in real time. Use the sidebar to access your core modules.
                            153                  </p>
                            154
                            155                  <div class="highlight-box">
                            156                      <strong>System Notice:</strong>
                            157                      The *"Aether AI Platform"* has deployed successfully to version 2.3.
                            158                      Review the update details in the AI Projects section.
                            159                  </div>
                            160
                            161                  <h3 style="margin-top: 30px; color: #0b3d91;">Today's Focus</h3>
                            162                  <ul>
                            163                      <li>✓ Validate dataset updates</li>
                            164                      <li>✓ Check server resource usage</li>
                            165                      <li>⚡ Deploy model improvements</li>
                            166                      <li>⚡ Review new client proposals</li>
                            167                  </ul>
```

Ln 147, Col 1   Spaces: 4   UTF-8   LF   {} HTML   Port : 5500

Ask about your code
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

SUGGESTED ACTIONS
Build Workspace
Show Config

PRACTICAL2.2.HTML ×
Explore and understand you

```html
<html lang="en">
<body>
    <div class="container">
        </aside>

        <section class="content">
            <h2>Welcome to TechNova Dashboard</h2>
            <p>
                This internal dashboard helps you manage development pipelines, monitor active projects, and
                collaborate with your team in real time. Use the sidebar to access your core modules.
            </p>

            <div class="highlight-box">
                <strong>System Notice:</strong>
                The *"Aether AI Platform"* has deployed successfully to version 2.3.
                Review the update details in the AI Projects section.
            </div>

            <h3 style="margin-top: 30px; color: #0b3d91;">Today's Focus</h3>
            <ul>
                <li>✓ Validate dataset updates</li>
                <li>✓ Check server resource usage</li>
                <li>⧗ Deploy model improvements</li>
                <li>⧗ Review new client proposals</li>
            </ul>

            <p style="margin-top: 20px;">
                Keep an eye on the latest project metrics and communicate regularly with
                your team to ensure smooth operation across all services.
            </p>
        </section>

        <div class="clear"></div>
    </div>
</body>
</html>
```


TechNova Solutions
Innovating AI and Cloud Systems

Menu
- 🏃 Home
- 🌀 AI Projects
- ☁ Cloud Services
- 🏆 Reports
- 🔧 Settings

Welcome to TechNova Dashboard

This internal dashboard helps you manage development pipelines, monitor active projects, and collaborate with your team in real time. Use the sidebar to access your core modules.

System Notice: The **Aether AI Platform'* has deployed successfully to version 2.3. Review the update details in the AI Projects section.

Today's Focus

- ✓ Validate dataset updates
- ✓ Check server resource usage
- ⧗ Deploy model improvements
- ⧗ Review new client proposals

Keep an eye on the latest project metrics and communicate regularly with your team to ensure smooth operation across all services.