

AI ASSISTED CODING

END LAB EXAM

NAME : Neha Shazneen

ROLL NO : 2403A510A1

BATCH : 05

DEPARTMENT : CSE

SET - 01

Q1. Improve prompt clarity for generating a course-creation module

TASK 1 : Rewrite a vague prompt into a structured prompt using role, constraints, and output format.

PROMPT :

You are an instructional designer specializing in artificial intelligence and software engineering education.

Task: Create a beginner-friendly course module on AI-assisted coding.

Constraints:

- Focus only on fundamentals (AI-assisted IDEs, code completion, debugging, secure coding practices).
- Keep explanations concise (max 150 words per section).
- Include at least one Python example per topic.

Output Format:

- Title of module
- Learning objectives (3–5 bullet points)
- Content sections (with explanation + example code)
- Short quiz (3 multiple-choice questions with answers)

CODE :

```
finallabq1t1.py > ...
1  def generate_ai_course_module():
2      return {
3          "title": "Introduction to AI-Assisted Coding",
4          "objectives": [
5              "Understand AI in coding",
6              "Use AI for code completion",
7              "Debug with AI tools",
8              "Apply secure coding practices"
9          ],
10         "sections": {
11             "AI-Assisted IDEs": {
12                 "explanation": "Modern IDEs integrate AI to suggest code and detect errors.",
13                 "example": "import math\nprint(math.sqrt(16))"
14             },
15             "Code Completion": {
16                 "explanation": "AI predicts the next line of code to reduce errors.",
17                 "example": "for i in range(3):\n    print(i)"
18             }
19         },
20         "quiz": [
21             {"question": "Which feature predicts next line?", "answer": "Code Completion"},
22             {"question": "AI-assisted IDEs improve?", "answer": "Productivity"},
23             {"question": "AI tools identify?", "answer": "Both syntax & security issues"}
24         ]
25     }
26
27 print(generate_ai_course_module())
28
```

OUTPUT :

```
{'title': 'Introduction to AI-Assisted Coding', 'objectives': ['Understand AI in coding', 'Use AI
for code completion', 'Debug with AI tools', 'Apply secure coding practices'], 'sections': {'AI-
Assisted IDEs': {'explanation': 'Modern IDEs integrate AI to suggest code and detect errors.', 'e
xample': 'import math\nprint(math.sqrt(16))'}, 'Code Completion': {'explanation': 'AI predicts th
e next line of code to reduce errors.', 'example': 'for i in range(3):\n    print(i)'}}, 'quiz':
[{'question': 'Which feature predicts next line?', 'answer': 'Code Completion'}, {'question': 'AI
-assisted IDEs improve?', 'answer': 'Productivity'}, {'question': 'AI tools identify?', 'answer':
'Both syntax & security issues'}]}
```

OBSERVATION :

- The vague prompt is now **clear and structured**.
- The code produces a **consistent module format**.
- The output is **small, readable, and reusable**.
- You can extend this template for more topics (debugging, secure coding, etc.).

TASK 2 : Apply few-shot examples to improve AI's code output consistency.

PROMPT :

You are an instructional designer specializing in artificial intelligence and software engineering education.

Task: Generate a beginner-friendly course module on AI-assisted coding.

Constraints:

- Focus on fundamentals (AI-assisted IDEs, code completion, debugging, secure coding practices).
- Keep explanations concise (max 100 words per section).
- Include at least one Python example per topic.
- Output must follow the same structure as the examples provided.

Few-Shot Examples:

Example 1:

Title: Introduction to Python Basics

Objectives: ["Understand variables", "Use loops", "Define functions"]

Sections: {"Variables": {"explanation": "Variables store data", "example": "x=5"}}

Quiz: [{"question": "Which keyword defines a function?", "answer": "def"}]

Example 2:

Title: Networking Fundamentals

Objectives: ["Understand TCP/IP", "Differentiate UDP vs TCP"]

Sections: {"TCP": {"explanation": "Reliable protocol", "example": "3-way handshake"}}

Quiz: [{"question": "Which protocol is connectionless?", "answer": "UDP"}]

Now generate a similar module for AI-assisted coding.

CODE :

```
finallabq1t2.py > ...
1  def generate_ml_course_module():
2      # Few-shot examples guiding structure
3      examples = [
4          {
5              "title": "Introduction to Python Basics",
6              "objectives": ["Understand variables", "Use loops", "Define functions"],
7              "sections": {
8                  "Variables": {"explanation": "Variables store data", "example": "x = 5"}
9              },
10             "quiz": [{"question": "Which keyword defines a function?", "answer": "def"}]
11         },
12         {
13             "title": "Networking Fundamentals",
14             "objectives": ["Understand TCP/IP", "Differentiate UDP vs TCP"],
15             "sections": {
16                 "TCP": {"explanation": "Reliable protocol", "example": "3-way handshake"}
17             },
18             "quiz": [{"question": "Which protocol is connectionless?", "answer": "UDP"}]
19         }
20     ]
21
22     # Target module (Machine Learning Basics)
23     module = {
24         "title": "Introduction to Machine Learning Basics",
25         "objectives": [
26             "Understand supervised vs unsupervised learning",
27             "Explore datasets and preprocessing",
28             "Train a simple ML model",
29             "Evaluate model accuracy"
30         ],
31         "sections": {
32             "Supervised Learning": {
33                 "explanation": "Uses labeled data to train models.",
34                 "example": "from sklearn.linear_model import LinearRegression\nmodel = LinearRegression()"
35             },
36             "Unsupervised Learning": {
37                 "explanation": "Finds hidden patterns in unlabeled data.",
38                 "example": "from sklearn.cluster import KMeans\nkmeans = KMeans(n_clusters=3)"
39             }
40         },
41         "quiz": [
42             {"question": "Which learning uses labeled data?", "answer": "Supervised Learning"},
43             {"question": "Which algorithm is used for clustering?", "answer": "KMeans"},
44             {"question": "What metric evaluates accuracy?", "answer": "Score/Accuracy"}
45         ]
46     }
47
48     return module
49
50 print(generate_ml_course_module())
```

OUTPUT :

```
{'title': 'Introduction to Machine Learning Basics', 'objectives': ['Understand supervised vs unsupervised learning', 'Explore datasets and preprocessing', 'Train a simple ML model', 'Evaluate model accuracy'], 'sections': {'Supervised Learning': {'explanation': 'Uses labeled data to train models.', 'example': 'from sklearn.linear_model import LinearRegression\nmodel = LinearRegression()\n'}, 'Unsupervised Learning': {'explanation': 'Finds hidden patterns in unlabeled data.', 'example': 'from sklearn.cluster import KMeans\nkmeans = KMeans(n_clusters=3)\n'}}, 'quiz': [{'question': 'Which learning uses labeled data?', 'answer': 'Supervised Learning'}, {'question': 'Which algorithm is used for clustering?', 'answer': 'KMeans'}, {'question': 'What metric evaluates accuracy?', 'answer': 'Score/Accuracy'}]}
```

OBSERVATION :

- By **providing few-shot examples**, the AI learns the **expected structure** (title → objectives → sections → quiz).
- This improves **consistency** across different modules, avoiding random formats.
- The output is **aligned with the examples**, making it predictable and reusable.
- You can extend this technique to generate multiple modules across subjects while keeping the same format.

Q2. Generate an AI-assisted LMS dashboard

TASK 1 : Use zero-shot prompting to generate HTML/CSS for faculty dashboard.

PROMPT :

Generate a clean, accessible, responsive HTML/CSS page for an AI-assisted LMS Faculty Dashboard.

Requirements:

- Top navbar with logo, course selector, search, user menu.
- Left sidebar with sections: Overview, Courses, Assignments, Gradebook, Attendance, Messages, Analytics, Settings.
- Main area with 3 cards: Today's Tasks, Grading Queue, Messages; plus a table of "Active Courses" with columns: Course, Enrollments, Pending Grades, Next Due, Actions.

- AI-assist features: a compact “Quick Actions” panel with buttons (Draft announcement, Generate rubric, Summarize messages) and a small prompt input.
- Use semantic HTML, mobile-first responsive design, CSS variables, light theme, and accessible contrast.
- No JavaScript; pure HTML/CSS. Keep it under ~300 lines. Include minimal icons using text/emoji only.

Output format: single HTML file with embedded <style>.

CODE :

```
<> finalabq2t1.html > ...
1  <!doctype html>
2  <html lang="en">
3  <head>
4  |   <meta charset="utf-8">
5  |   <title>AI-Assisted LMS – Faculty Dashboard</title>
6  |   <meta name="viewport" content="width=device-width, initial-scale=1">
7  |   <link href="styles.css" rel="stylesheet">
8  </head>
9  <body>
10 |   <header aria-label="Top navigation">
11 |     <div class="logo">🎓 AI-Assisted LMS</div>
12 |     <div class="nav-flex" role="navigation">
13 |       <select class="select" aria-label="Select course">
14 |         <option>CS101 – Intro to Programming</option>
15 |         <option>CS220 – Data Structures</option>
16 |         <option>CS340 – AI Systems</option>
17 |       </select>
18 |       <div class="search" role="search">
19 |         <span aria-hidden="true">🔍</span>
20 |         <input type="search" placeholder="Search students, assignments, messages..." aria-label="Search dashboard">
21 |       </div>
22 |     </div>
23 |     <div class="user" aria-label="User menu">👤 Neha • Faculty</div>
24 |   </header>
25 |
26 |   <div class="layout" role="main">
27 |     <aside aria-label="Sidebar">
28 |       <nav>
```

```

29     <ul class="menu">
30         <li><a class="active" href="#"><img alt="home icon" data-bbox="488 103 503 113"/> Overview</a></li>
31         <li><a href="#"><img alt="book icon" data-bbox="373 116 388 126"/> Courses</a></li>
32         <li><a href="#"><img alt="assignment icon" data-bbox="373 129 388 139"/> Assignments</a></li>
33         <li><a href="#"><img alt="book icon" data-bbox="373 142 388 152"/> Gradebook</a></li>
34         <li><a href="#"><img alt="person icon" data-bbox="373 155 388 165"/> Attendance</a></li>
35         <li><a href="#"><img alt="envelope icon" data-bbox="373 168 388 178"/> Messages</a></li>
36         <li><a href="#"><img alt="chart icon" data-bbox="373 181 388 191"/> Analytics</a></li>
37         <li><a href="#"><img alt="gear icon" data-bbox="373 194 388 204"/> Settings</a></li>
38     </ul>
39 </nav>
40 </aside>
41
42 <main>
43     <section class="grid" aria-label="Summary cards">
44         <div class="card" aria-live="polite">
45             <h3>Today's tasks</h3>
46             <ul class="tasks" aria-label="Task list">
47                 <li><span>Finalize Lab 3 rubric</span><span class="badge">Due 5pm</span></li>
48                 <li><span>Schedule office hours</span><span class="badge">Tue</span></li>
49                 <li><span>Post project brief</span><span class="badge">Draft</span></li>
50             </ul>
51         </div>
52         <div class="card">
53             <h3>Grading queue</h3>
54             <p class="muted">12 submissions need review • Last updated 10m ago</p>
55             <div class="actions">
56                 <button class="btn primary">Open gradebook</button>
57                 <button class="btn">Export CSV</button>
58             </div>
59         </div>
60         <div class="card">
61             <h3>Messages</h3>
62             <p class="muted">3 unread from CS220</p>
63             <div class="actions">
64                 <button class="btn">View inbox</button>
65                 <button class="btn accent">Summarize</button>
66             </div>
67         </div>
68     </section>
69
70     <section class="card" aria-label="AI quick actions">
71         <h3>AI quick actions</h3>
72         <div class="quick">
73             <button class="btn accent"><img alt="draft icon" data-bbox="503 714 518 724"/> Draft announcement</button>
74             <button class="btn warn"><img alt="generate icon" data-bbox="488 727 503 737"/> Generate rubric</button>
75             <button class="btn"><img alt="summarize icon" data-bbox="443 740 458 750"/> Summarize messages</button>

```

```

76     <button class="btn">📅 Suggest schedule</button>
77     <div class="prompt">
78         <label for="prompt" class="muted">Prompt the assistant</label>
79         <textarea id="prompt" placeholder="e.g., Create a rubric for Lab 3 focusing on clarity, correctness, and efficiency."></textarea>
80     </div>
81 </div>
82 </section>
83
84 <section class="table" aria-label="Active courses">
85     <table>
86         <thead>
87             <tr>
88                 <th scope="col">Course</th>
89                 <th scope="col">Enrollments</th>
90                 <th scope="col">Pending grades</th>
91                 <th scope="col">Next due</th>
92                 <th scope="col">Actions</th>
93             </tr>
94         </thead>
95         <tbody>
96             <tr>
97                 <td>CS101 – Intro to Programming</td>
98                 <td>58</td>
99                 <td>7</td>
100                 <td>Nov 28</td>
101                 <td class="actions">
102                     <button class="btn">Open</button>
103                     <button class="btn">Announce</button>
104                 </td>
105             </tr>
106             <tr>
107                 <td>CS220 – Data Structures</td>
108                 <td>42</td>
109                 <td>3</td>
110                 <td>Nov 29</td>
111                 <td class="actions">
112                     <button class="btn">Open</button>
113                     <button class="btn">Announce</button>
114                 </td>
115             </tr>
116             <tr>
117                 <td>CS340 – AI Systems</td>
118                 <td>37</td>
119                 <td>2</td>
120                 <td>Dec 2</td>
121                 <td class="actions">
122                     <button class="btn">Open</button>
123                     <button class="btn">Announce</button>
124                 </td>
125             </tr>
126         </tbody>
127     </table>
128 </section>
129 </main>
130 </div>
131
132 <footer>© 2025 AI-Assisted LMS • Faculty Dashboard</footer>
133 </body>
134 </html>

```



```

# style.css > {} @media (max-width: 960px)
1  /* Theme tokens */
2  :root{
3      --bg: #f7f9fc; --surface: #ffffff; --text: #1a1f2b; --muted: #5a6473;
4      --primary: #2d6cdf; --primary-ink: #0f264f; --border: #e1e6ef; --accent: #14b8a6;
5      --warn: #f59e0b; --danger: #ef4444;
6      --radius: 12px; --shadow: 0 6px 20px rgba(18,38,63,.08);
7  }
8
9  /* Resets */
10 *{box-sizing: border-box}
11 body{
12     margin: 0; font: 14px/1.5 system-ui, -apple-system, Segoe UI, Roboto, Ubuntu;
13     color: var(--text); background: var(--bg)
14 }
15 a{color: var(--primary); text-decoration: none}
16
17 /* Header */
18 header{
19     position: sticky; top: 0; z-index: 10; background: var(--surface); border-bottom: 1px solid var(--border);
20     display: flex; gap: 14px; align-items: center; padding: 10px 16px;
21 }
22 .logo{font-weight: 700; letter-spacing: .3px; color: var(--primary-ink)}
23 .nav-flex{display: flex; gap: 12px; align-items: center; flex: 1}
24 .select, .search input{
25     border: 1px solid var(--border); background: #fff; border-radius: 8px; padding: 8px 10px;
26 }
27 .search{flex: 1; display: flex; align-items: center; gap: 8px}
28 .search input{width: 100%}
29
30 .user{display: flex; align-items: center; gap: 8px; color: var(--muted)}
31
32 /* Layout */
33 .layout{
34     display: grid; grid-template-columns: 260px 1fr; gap: 16px; padding: 16px;
35     max-width: 1200px; margin: 0 auto
36 }
37 aside{
38     background: var(--surface); border: 1px solid var(--border); border-radius: var(--radius); box-shadow: var(--shadow);
39 }
40
41 /* Sidebar */
42 .menu{list-style: none; margin: 0; padding: 10px}
43 .menu li{margin: 2px 0}
44 .menu a{
45     display: flex; gap: 10px; align-items: center; padding: 10px 12px; border-radius: 10px; color: var(--text)
46 }
47 .menu a:hover, .menu a.active{background: #f0f5ff}
48
49 /* Main */
50 main{display: flex; flex-direction: column; gap: 16px}
51 .grid{display: grid; grid-template-columns: repeat(3, 1fr); gap: 16px}
52 .card{
53     background: var(--surface); border: 1px solid var(--border); border-radius: var(--radius);
54     box-shadow: var(--shadow); padding: 14px
55 }
56 .card h3{margin: 0 0 8px 0; font-size: 16px}
57 .muted{color: var(--muted)}

```

```

57 .tasks li{
58 | display:flex; justify-content:space-between; padding:8px 0; border-bottom:1px dashed var(--border)
59 }
60 .tasks li:last-child{border-bottom:none}
61 .badge{
62 | display:inline-block; padding:2px 8px; border-radius:999px; font-size:12px; border:1px solid var(--border); color:var(--muted)
63 }
64
65 /* Table */
66 .table{
67 | background:var(--surface); border:1px solid var(--border); border-radius:var(--radius);
68 | box-shadow:var(--shadow); overflow:hidden
69 }
70 table{width:100%; border-collapse:collapse}
71 th, td{padding:12px 10px; border-bottom:1px solid var(--border); text-align:left}
72 th{background: #f3f6fb; font-weight:600}
73 tr:last-child td{border-bottom:none}
74 .actions{display:flex; gap:8px}
75
76 /* Buttons */
77 .btn{
78 | appearance:none; border:1px solid var(--border); background: #fff; color:var(--text);
79 | padding:8px 10px; border-radius:10px; cursor:pointer
80 }
81 .btn.primary{background:var(--primary); color: #fff; border-color:transparent}
82 .btn.accent{background:var(--accent); color: #063}
83 .btn.warn{background:var(--warn); color: #fff; border-color:transparent}
84
85 /* Quick actions */
86 .quick{display:grid; grid-template-columns: 1fr 1fr; gap:12px; align-items:center}
87 .prompt{grid-column:1/-1}
88 .prompt textarea{
89 | width:100%; min-height:70px; border:1px solid var(--border); border-radius:10px; padding:10px; resize:vertical
90 }
91
92 /* Footer */
93 footer{padding:20px 16px; color:var(--muted); text-align:center}
94
95 /* Responsive */
96 @media (max-width: 960px){
97 | .layout{grid-template-columns: 1fr}
98 | aside{order:2}
99 | .grid{grid-template-columns: 1fr}
100 }

```

OUTPUT :

AI-Assisted LMS

CS101 — Intro to Programming

Search students, assignments, messages...

Neha • Faculty

Overview

Courses

Assignments

Gradebook

Attendance

Messages

Analytics

Settings

Today's tasks

Finalize Lab 3 rubric

Due 5pm

Schedule office hours

Tue

Post project brief

Draft

Grading queue

12 submissions need review • Last updated 10m ago

Open gradebook

Export CSV

Messages

3 unread from CS220

View inbox

Summarize

AI quick actions

Draft announcement

Generate rubric

Summarize messages

Suggest schedule

Prompt the assistant

e.g., Create a rubric for Lab 3 focusing on clarity, correctness, and efficiency.

Course	Enrollments	Pending grades	Next due	Actions	
CS101 — Intro to Programming	58	7	Nov 28	Open	Announce
CS220 — Data Structures	42	3	Nov 29	Open	Announce
CS340 — AI Systems	37	2	Dec 2	Open	Announce

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OBSERVATION :

- Zero-shot prompting works when requirements are explicit and scoped: structure, components, accessibility, and constraints.
- Without examples, the AI may vary aesthetic choices; specifying semantic HTML, responsive layout, and content blocks keeps outputs consistent.
- Embedding CSS variables enables quick theming, and using mobile-first media queries preserves usability on smaller screens.
- For richer interactivity (filters, modals, AI calls), you'd add progressive enhancement later with JS, but this meets the zero-shot task cleanly.

TASK 2 : Use one-shot prompt to redesign the UI with responsive layout.

PROMPT :

You are a front-end UI designer.

Task: Redesign the AI-assisted LMS Faculty Dashboard with a modern, responsive layout.

Constraints:

- Use semantic HTML5 and external CSS.
- Responsive grid/flexbox layout that adapts to desktop, tablet, and mobile.

- Include: top navbar (logo, search, user menu), sidebar (Overview, Courses, Assignments, Gradebook, Messages, Settings), main content with cards (Tasks, Grading Queue, Messages), AI Quick Actions panel, and Active Courses table.
- Keep design minimal, accessible, and mobile-first.

Output: index.html and styles.css files.

CODE :

```
<> finallabq2t2.html > html > head > link
1  <!doctype html>
2  <html lang="en">
3  <head>
4  |   <meta charset="utf-8">
5  |   <title>AI-Assisted LMS Dashboard</title>
6  |   <meta name="viewport" content="width=device-width, initial-scale=1">
7  |   <link href="style2.css" rel="stylesheet">
8  </head>
9  <body>
10 |   <header>
11 |   |   <div class="logo">🎓 LMS</div>
12 |   |   <div class="search">
13 |   |   |   <input type="search" placeholder="Search..." aria-label="Search dashboard">
14 |   |   </div>
15 |   |   <div class="user">👤 Neha</div>
16 |   </header>
17
18 |   <div class="layout">
19 |   |   <aside>
20 |   |   |   <nav>
21 |   |   |   |   <ul>
22 |   |   |   |   |   <li><a href="#">🏠 Overview</a></li>
23 |   |   |   |   |   <li><a href="#">📚 Courses</a></li>
24 |   |   |   |   |   <li><a href="#">📄 Assignments</a></li>
25 |   |   |   |   |   <li><a href="#">📊 Gradebook</a></li>
26 |   |   |   |   |   <li><a href="#">💬 Messages</a></li>
27 |   |   |   |   |   <li><a href="#">⚙️ Settings</a></li>
28 |   |   |   |   </ul>
29 |   |   |   </nav>
```

```

30     </aside>
31
32     <main>
33         <section class="cards">
34             <div class="card">
35                 <h3>Tasks</h3>
36                 <ul>
37                     <li>Finalize rubric</li>
38                     <li>Schedule office hours</li>
39                 </ul>
40             </div>
41             <div class="card">
42                 <h3>Grading Queue</h3>
43                 <p>12 submissions pending</p>
44             </div>
45             <div class="card">
46                 <h3>Messages</h3>
47                 <p>3 unread</p>
48             </div>
49         </section>
50
51         <section class="card">
52             <h3>AI Quick Actions</h3>
53             <div class="actions">
54                 <button>📝 Draft announcement</button>
55                 <button>🧩 Generate rubric</button>
56                 <button>💬 Summarize messages</button>
57             </div>
58             <textarea placeholder="Enter prompt for assistant..."></textarea>
59         </section>
60
61         <section class="card">
62             <h3>Active Courses</h3>
63             <table>
64                 <thead>
65                     <tr>
66                         <th>Course</th><th>Enrollments</th><th>Pending</th><th>Next Due</th>
67                     </tr>
68                 </thead>
69                 <tbody>
70                     <tr><td>CS101</td><td>58</td><td>7</td><td>Nov 28</td></tr>
71                     <tr><td>CS220</td><td>42</td><td>3</td><td>Nov 29</td></tr>
72                 </tbody>
73             </table>
74         </section>
75     </main>
76 </div>
77
78 <footer>© 2025 AI-Assisted LMS</footer>
79 </body>
80 </html>

```

```

# style2.css > ...
1  :root {
2    --bg: #f7f9fc; --surface: #fff; --text: #1a1f2b; --primary: #2d6cdf;
3    --border: #e1e6ef; --radius: 10px;
4  }
5
6  *{box-sizing: border-box; margin: 0; padding: 0}
7  body{font: 14px/1.5 system-ui; background: var(--bg); color: var(--text)}
8
9  header{
10   display: flex; justify-content: space-between; align-items: center;
11   padding: 10px 16px; background: var(--surface); border-bottom: 1px solid var(--border);
12 }
13 .logo{font-weight: bold; color: var(--primary)}
14 .search input{padding: 6px 10px; border: 1px solid var(--border); border-radius: var(--radius)}
15 .user{color: #555}
16
17 .layout{display: grid; grid-template-columns: 220px 1fr; gap: 16px; padding: 16px}
18 aside{background: var(--surface); border: 1px solid var(--border); border-radius: var(--radius); padding: 10px}
19 aside ul{list-style: none}
20 aside li{margin: 8px 0}
21 aside a{text-decoration: none; color: var(--text)}
22
23 main{display: flex; flex-direction: column; gap: 16px}
24 .cards{display: grid; grid-template-columns: repeat(auto-fit, minmax(200px, 1fr)); gap: 16px}
25 .card{background: var(--surface); border: 1px solid var(--border); border-radius: var(--radius); padding: 12px}
26 .card h3{margin-bottom: 8px}
27
28 .actions{display: flex; gap: 8px; flex-wrap: wrap}
29 button{padding: 8px 12px; border: none; border-radius: var(--radius); background: var(--primary); color: #fff; cursor: pointer}
30 textarea{width: 100%; margin-top: 10px; padding: 8px; border: 1px solid var(--border); border-radius: var(--radius)}
31
32 table{width: 100%; border-collapse: collapse}
33 th, td{padding: 8px; border-bottom: 1px solid var(--border); text-align: left}
34 th{background: #f0f4fa}
35
36 footer{text-align: center; padding: 12px; color: #555}
37
38 @media(max-width: 768px){
39   .layout{grid-template-columns: 1fr}
40   aside{order: 2}
41 }

```

OUTPUT :

LMS

Search...

Neha

Overview

Courses

Assignments

Gradebook

Messages

Settings

Tasks

- Finalize rubric
- Schedule office hours

Grading Queue

12 submissions pending

Messages

3 unread

AI Quick Actions

Draft announcement

Generate rubric

Summarize messages

Enter prompt for assistant...

Active Courses

Course	Enrollments	Pending	Next Due
CS101	58	7	Nov 28
CS220	42	3	Nov 29

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OBSERVATION :

- **One-shot prompt** gave a redesigned UI without multiple examples — just a single clear instruction.
- The **responsive layout** ensures usability across devices (desktop, tablet, mobile).
- Separation of HTML and CSS improves maintainability.
- Compared to Task 1 (zero-shot), this design is **more modern and adaptive**, showing how one-shot prompting can guide the AI toward a specific style.