

1. Goal of the Homework

The goal of this homework is to help you think and work like a frontend developer, not just write HTML and CSS.

By the end of this assignment, you should be able to:

- Break down a UI into clear, reusable components
- Analyze a layout before coding
- Plan structure and styles intentionally
- Translate a visual design into semantic HTML and clean CSS
- Iterate and improve your solution based on issues you discover

You will practice a professional frontend workflow while building four common UI components:

- Card
 - Sidebar
 - Form
 - Image Gallery
-

2. Components You Will Build

You will build four separate components, each in its own section or file:

1. Card component
2. Sidebar component
3. Form component
4. Image gallery component

Each component must be built using the workflow described below.

3. Required Workflow (Must Follow This Flow)

For each component, you must go through all six steps:

1 Analyzing the Component

Before writing code:

- Identify the main container
- Identify child elements (image, text, buttons, links, etc.)
- Decide what is content vs layout vs decoration

 *Write short notes (bullet points) explaining your analysis.*

2 Planning

Plan your solution:

- Decide which HTML elements to use (div, section, nav, form, input, etc.)
- Decide how elements will be grouped
- Think about layout (flexbox, grid, or normal flow)

 *Write a simple plan in text.*

3 Wireframing

Create a simple wireframe:

- Can be hand-drawn (photo)
- Or digital (boxes and labels only)
- No colors, no styling details

 *The wireframe should match the layout picture structure.*

4 Chunking

Break the component into chunks:

- Parent container
- Sub-sections

- Reusable blocks (items, rows, cards, etc.)

💡 *List the chunks clearly.*

5 Prompting (Code Writing)

Now write the code:

- Semantic HTML
- Clean, readable CSS
- Proper class names
- Layout must visually match the provided layout picture

💡 You may use any images you want

6 Iterating

After finishing:

- Check spacing, alignment, consistency
- Improve class names if needed
- Fix layout issues
- Refactor CSS if it feels messy

💡 *Write 2–3 sentences explaining what you improved.*

4. Requirements (Very Important)

- Use the starter code
- You need only to fill 1 HTML and 1 CSS file
- No JavaScript
- Document the workflow for each component
- Layout must visually match the provided layout picture
- Images can be different, but:
 - Same size
 - Same placement
 - Same structure

5. What You Need to Submit

You must submit:

1. HTML file
2. CSS file
3. Wireframes (images or PDF)
4. A short document (or README) that includes:
 - Analysis notes for each component
 - Planning notes
 - Chunking breakdown
 - Iteration notes (what you improved)

For all of the 4 components

 You may submit everything as:

- A GitHub repository link



Remember:

This homework is not about speed. It's about thinking before coding and learning how real frontend developers approach UI problems.
