

Task Documentation: Building a Static Landing Page with HTML and CSS

Objective:

The task is for students to create a fully functional landing page or a complete static webpage. Students can either develop their own unique ideas **or** replicate the structure and design of the webpage linked https://www.hubspot.com/hs-fs/hubfs/lp-hero.png".

1. Project Structure:

- Organize your project into two main files:
 - o index.html: This will hold the HTML content of the landing page.
 - style.css: This file will contain all the CSS rules that define the layout and appearance of the page.

Make sure to link the CSS file in your HTML <head> section.

2. Key HTML Concepts to Use:

- HTML Layout Structure:
 - Your page should follow a typical HTML layout:
 - A header for the navigation bar.
 - A main section for the hero section and main content.
 - A footer for contact information or links.
- Semantic HTML Elements:
 - Use semantic tags like <header>, <main>, <section>, <article>, <nav>,
 and <footer> to structure your webpage.
 - These elements help with SEO and accessibility.
- Forms (Optional):
 - If you plan to add forms (like a subscription box or contact form), use appropriate elements such as <form>, <input>, <button>, and <label>.
- Images and Media:
 - Use the tag to add images.



 For videos, you can use the <video> tag if needed, or embed YouTube videos with an <iframe>.

3. Key CSS Concepts to Apply:

• Reset CSS Styles:

 Browsers apply their own default styling to HTML elements. It's a good idea to use a CSS reset at the top of your style.css to ensure consistency across browsers.

Typography:

- Use Google Fonts for modern typography. You can link the font in the <head> section and apply it through CSS.
- Play around with different font sizes, weights, and colors to match the style of the landing page you're replicating or creating.

Box Model:

- Understand and use padding, margin, and borders effectively to create space between and around elements.
- Use background colors or images for sections of your webpage to add visual appeal.

• Flexbox:

- Flexbox will be essential for arranging elements within containers, especially in sections like navigation bars or image galleries.
- Use display: flex; to create flexible layouts. You can control the direction with flex-direction, alignment with justify-content, and spacing with align-items.

Positioning:

- Use CSS positioning properties (relative, absolute, fixed, and sticky) to place elements like navigation bars, images, or buttons exactly where you need them.
- Use z-index to control the layering of elements when necessary.

Responsive Design:

- Ensure your page is responsive by using media queries. Define breakpoints where the layout changes based on screen size, typically for tablet and mobile views.
- Consider using percentage-based widths or flexbox to create fluid layouts that resize based on the viewport width.



4. Replicating the Innomatics Landing Page:

If you're choosing to replicate the landing page at <u>Innomatics</u>, here are some hints:

Header & Navigation Bar:

- Focus on creating a sticky header with the company's logo on the left and navigation links on the right.
- Ensure the navigation bar is responsive, possibly turning into a hamburger menu for mobile devices.

Hero Section:

 Pay close attention to the hero section, which features a large background image with a centered text overlay. You'll need to use background-image in CSS and position the text using position: absolute or flexbox.

• Call-to-Action Buttons:

 The hero section likely includes a button or call-to-action. Style the button with CSS properties like padding, border-radius, and hover effects (e.g., changing background color when hovering).

• Content Sections:

The page may have several sections (like features, services, or testimonials).
 Each of these sections could have a different background color or image, along with neatly aligned content blocks using flexbox.

• Footer:

 For the footer, pay attention to the alignment of text and any links or social media icons. Make sure it is well-structured and matches the theme of the page.

5. Hints for Creative Design:

Colors:

 Choose a color palette that reflects the theme of your project. You can use online tools like **Adobe Color** or **Colors** to help with color selection.

Icons:

 Use icons to enhance the visual appeal. Websites like Font Awesome or Flaticon can provide a wide range of icons that can be easily integrated into your page.

Consistent Styling:

 Maintain consistency in your styles, such as font sizes, padding, and margin across all sections of the page. It will make the design look cohesive and professional.



6. Testing & Deployment:

• Cross-browser Testing:

 Make sure to test your webpage on different browsers (Chrome, Firefox, Edge, etc.) to ensure that it looks the same everywhere.

Mobile-first Design:

 Keep in mind that many users will view your landing page on mobile devices. Use responsive techniques and test your page on mobile browsers.

Deployment:

 Once you're happy with your landing page, deploy it online. You can use GitHub Pages, Netlify, or Vercel to host the site for free.