Curriculum

**Short Specializations**Average: 76.14%

0x01. Developer tools

**HTMLCSSFront-end**

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* Weight: 1
* Project over - took place from Oct 11, 2023 6:00 AM to Oct 12, 2023 6:00 AM
* An auto review will be launched at the deadline

In this project, you will analyze this website [https://dev-tools.alx-tools.com/](https://intranet.alxswe.com/rltoken/sJ-OqYvXD5iZZXmQIy1VfA).

Resources

**Read or watch**:

* [Chrome DevTools | Tools for Web Developers | Google Developers](https://intranet.alxswe.com/rltoken/a00xWFVG2r6G3lphxOFexA)
* [Introduction | Down and Dirty with Chrome Developer Tools](https://intranet.alxswe.com/rltoken/NMYYMG44e0dZ2eb5uR4iUQ)
* [Firefox Developer Tools | MDN](https://intranet.alxswe.com/rltoken/If7a66qWg4qxhKuNPRoJCw)
* [Dev Tips - Developer Tips by Umar Hansa](https://intranet.alxswe.com/rltoken/rdGj_NA-X--rwekzt9bffQ)
* [Get Started With Viewing And Changing CSS | Tools for Web Developers](https://intranet.alxswe.com/rltoken/rU_42ND20tHzosN2V1xP1w)
* [Keeping it simple with the JavaScript console - LogRocket Blog](https://intranet.alxswe.com/rltoken/UiqZ7pmI5L7BMr3ZaG4Bow)
* [Inspect Network Activity - Chrome DevTools 101](https://intranet.alxswe.com/rltoken/I_IHgn0hsaB1kee6RgU1SQ)

Learning Objectives

At the end of this project, you are expected to be able to [explain to anyone](https://intranet.alxswe.com/rltoken/dwjk75rRXLFZx8MjuL1uww), **without the help of Google**:

General

* What Developer Tools in your browser are
* How to open the Developer Tools on Chrome, Firefox, Safari, and Edge.
* How to use the elements tab to edit HTML and CSS
* How to audit a page according to the tips suggested by Lighthouse
* How to create and run snippets on a page
* How to get information about files and server configurations
* How to block requests
* How to know how much JavaScript or CSS is used on a page
* How to detect 404 issues
* How to move elements on a webpage

Requirements

General

* A README.md file, at the root of the folder of the project, is mandatory
* Use the newest version of Google Chrome browser (78.0.3904.70 or later).
* Screenshots can be taken via the OS, not necessary via the DevTools. These screenshots are used to see how and where you are doing/playing with the DevTools.

Tasks

0. Responsive device

**mandatory**

Go to https://dev-tools.alx-tools.com/

Take a screenshot of the website using the device toolbar Choose iPhone X and show the size in your screenshot (selected device or size in pixel of the rendering)

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 0-responsive\_device.png

 Done? Help

1. Change the background color

**mandatory**

Go to https://dev-tools.alx-tools.com/

Change the background-color of the body to use #4233bd Take a screenshot of the PORTFOLIO section

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 1-change\_bg\_color.png

 Done? Help

2. Force element state

**mandatory**

Go to https://dev-tools.alx-tools.com/

Force the hover state of the “cake” block in the section Portfolio Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 2-pathways\_menu.png

 Done? Help

3. Copy all the styles of the button

**mandatory**

Go to https://dev-tools.alx-tools.com/

Select the Download me! and copy all the CSS styling that is applied on this button.

Your answer file must contain all CSS styling one per line like this example:

$ head -2 3-button\_styles

border-radius: 1px;

color: #FF00FF;

$

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 3-button\_styles

 Done? Help Check your code

4. Change button styles

**mandatory**

Go to https://dev-tools.alx-tools.com/

* All primary buttons (btn-primary) should have the #0080ee color as a background color
* All outlined buttons light (btn-outline-light) should have #0020aa for the text color
* Screenshot all buttons that changed and merge it to one image

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 4-new\_buttons.png

 Done? Help

5. Remove part of the website

**mandatory**

Go to https://dev-tools.alx-tools.com/

Remove the div of the “cake” box in the section Portfolio

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 5-deleted\_elements.png

 Done? Help

6. Where is it coming from?

**mandatory**

Go to https://dev-tools.alx-tools.com/

* On the right panel, click on the Computed tab
* Then, select the h2 with the text ABOUT
* Search for margin-bottom

Which file is coming from that declaration?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 6-declaration\_file

 Done? Help Check your code

7. How many listeners

**mandatory**

Go to https://dev-tools.alx-tools.com/

How many times click events are referenced in JavaScript files?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 7-number\_of\_listeners

 Done? Help Check your code

8. What is the HSL code

**mandatory**

Go to https://dev-tools.alx-tools.com/

Select the primary button “Send”

What is the equivalent value of the hexadecimal background-color, in HSL?

(format of your answer should be: hsl(<VALUES>);, example: hsl(241, 23%, 24%); following by a new line)

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 8-hsl

 Done? Help Check your code

9. The max-width of the container

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the max-width for the first .container in the section “About”? (your browser width must be between 1250px and 1440px and with a zoom at 100%)

(format of your answer should be max-width: <VALUE>;, example: max-width: 670px)

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 9-max\_width

 Done? Help Check your code

10. Moving around

**mandatory**

Go to https://dev-tools.alx-tools.com/

Switch the section “About” and “Portfolio”

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 10-moved\_around.png

 Done? Help

11. Coverage

**mandatory**

Go to https://dev-tools.alx-tools.com/

How many bytes that freelancer.css covers?

Answer file must contain the value in Byte (example: 6144 for 6KB)

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 11-coverage

 Done? Help Check your code

12. Emulate the print version of the webpage

**mandatory**

Go to https://dev-tools.alx-tools.com/

Take a screenshot of the homepage, only emulation the CSS print version of the website.

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 12-print\_version.png

 Done? Help

13. Using the console

**mandatory**

Go to https://dev-tools.alx-tools.com/

Select the Avatar image in the header and type $0 in the console. Enter.

What does it return?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 13-logo\_dollar0

 Done? Help Check your code

14. Write code in the console

**mandatory**

Go to https://dev-tools.alx-tools.com/

Write in the console console.log(document.title), what is returned?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 14-doc\_title

 Done? Help Check your code

15. Web framework

**mandatory**

Go to https://dev-tools.alx-tools.com/

Which front-end framework could we guess this page is using?

In your answer file only put the letter of the multiple choice answer from below:

* A. React JS
* B. Material Design
* C. Bootstrap
* D. Angular JS

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 15-hbtn\_framework

 Done? Help Check your code

16. Homepage weight

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the total weight of the page (with all the elements)?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 16-weight.png

 Done? Help

17. Number of requests

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the number of requests done when accessing this page?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 17-requests.png

 Done? Help

18. Number of CSS files

**mandatory**

Go to https://dev-tools.alx-tools.com/

How many CSS resources are loaded on this page?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 18-css\_loaded

 Done? Help Check your code

19. Number of images

**mandatory**

Go to https://dev-tools.alx-tools.com/

How many image resources are loaded on this page?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 19-images\_loaded

 Done? Help Check your code

20. Favicon image type

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the type value of the favicon image?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 20-favicon\_type

 Done? Help Check your code

21. Font library

**mandatory**

Go to https://dev-tools.alx-tools.com/

The website uses a font library for their icons, which one is it?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 21-hbtn\_font\_lib

 Done? Help Check your code

22. XHR calls

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the name of the resource that generates 1 XHR calls?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 22-xhr\_calls

 Done? Help Check your code

23. Audits panel

**mandatory**

Go to https://dev-tools.alx-tools.com/

What is the notation for Performance (for desktop mode and no throttling - also called Lighthouse)?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 23-performance\_audit.png

 Done? Help

24. Static assets

**mandatory**

Go to https://dev-tools.alx-tools.com/

How many static assets need a better cache policy?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 24-static\_assets\_audit.png

 Done? Help

25. Accessibility

**mandatory**

Go to https://dev-tools.alx-tools.com/

When you run an accessibility audit, what is the contrast issue?

In your answer file only put the letter of the multiple choice answer from below:

* A. Image elements do not have [alt] attributes
* B. Links do not have a discernible name
* C. Background and foreground colors do not have a sufficient contrast ratio.

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 25-contrast\_issue

 Done? Help Check your code

26. No alt

**mandatory**

Go to https://dev-tools.alx-tools.com/

Which classes are on the images that have no alt attribute?

Your answer file must contains all classes, example: .my\_class.my\_second if 2 classes

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 26-no\_alt

 Done? Help Check your code

27. Best practices

**mandatory**

Go to https://dev-tools.alx-tools.com/

Which attribute is missing on all the links with the target \_blank?

In your answer file only put the letter of the multiple choice answer from below:

* A. rel="noopener"
* B. rel="noreferrer"
* C. A and B
* D. rel = "nofollow"

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 27-missing\_attr

 Done? Help Check your code

28. SEO

**mandatory**

Go to https://dev-tools.alx-tools.com/

Which <a> links don’t have enough text description?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 28-unclear\_desc.png

 Done? Help

29. Sources

**mandatory**

Go to https://dev-tools.alx-tools.com/

The sources panel allow you to edit files, add breakpoints to analyse your JavaScript code and create snippets.

* Create a new snippet called allcolors.js
* Copy-paste the code on [that page](https://intranet.alxswe.com/rltoken/OT7WVbPhXDu_o9oL54pQ9g)
* Run the code
* Take a screenshot of the result in your console

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 29-how\_many\_colors.png

 Done? Help

30. Block CSS files

**mandatory**

Go to https://dev-tools.alx-tools.com/

Block all CSS requests

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 30-no\_css.png

 Done? Help

31. Application panel

**mandatory**

Go to https://dev-tools.alx-tools.com/

The application panel gives you access to the storage (cookies, sessions, cache…) and some other options as Services Workers and more recently, notifications.

What is the only key present in the session storage for this page?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 31-session\_storage\_key

 Done? Help Check your code

32. Service workers

**mandatory**

Go to https://dev-tools.alx-tools.com/

Does this page have any service workers? Yes or No

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 32-service\_workers

 Done? Help Check your code

33. Security

**mandatory**

Go to https://dev-tools.alx-tools.com/

The security panel allows you to make sure HTTS is properly implement on a webpage.

Which organization issued the SSL certificate for this page?

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 33-ssl\_cert

 Done? Help Check your code

34. Expiration date

**mandatory**

Go to https://dev-tools.alx-tools.com/

When does the SSL certificate expire?

Take a screenshot of it

**Repo:**

* GitHub repository: alx-frontend
* Directory: 0x01-developer\_tools
* File: 34-ssl\_expiration.png

 Done? Help

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