

WSUK – National Finals Competition Web Development

2024

MODULE A DESIGN IMPLEMENTATION

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Introduction

In this module, you are required to develop a web page following **a set of client requirements**. You can write your solution using front-end technologies, namely HTML, CSS and JavaScript. You can also use any of the provided frameworks, should you wish.

The test project can be completed without using any framework; it is your decision whether you use one. If you do use any of the frameworks, the submitted solution **must be functional as-is: no attempts will be made by the judges to fix or manipulate the code in any way.**

If you are using any framework, you must provide a basic `read.me` of the initialisation (e.g. `npm run dev`) or any other instruction to run the project.

Please put your files in `/XX_module_a/` as folder name (e.g. `/XX_module_a`) where XX is your station number.

You have three (3) hours to complete this task. You need to submit it before time runs out. No additional time will be given for submission.

Requirements

WorldSkills is a global charity dedicated to promoting excellence in technical, vocational, and general education through its renowned biennial competitions, often called the "Skills Olympics". WorldSkills brings together experts, competitors, industry leaders, and visitors from around the world to celebrate and elevate standards across all educational fields, fostering a skilled and adaptable workforce for the future.

This year, France hosted several major events, including:

- Olympic Games Paris 2024
- 2024 Summer Paralympics
- WorldSkills Lyon 2024

These events welcomed thousands of spectators and generated a huge buzz across the country. Inspired by all three, WorldSkills hope to carry on that excitement into its future events. Following the success of *WorldSkills Lyon 2024*, WorldSkills is now preparing for its next edition: **WorldSkills Shanghai 2026**.

To start creating a buzz well in advance, WorldSkills would like a web page that they can quickly and easily distribute via their social media platforms. Rather than replace the existing planned website - <https://worldskills2026.com> - they instead want a slimmer version that draws the user's attention to key call-to-actions (CTAs). Namely, the focus should be placed on generating interest in:

- a newsletter
- tickets for the opening and closing ceremonies
- visitor registration

A design has already been prepared and approved, but WorldSkills need you to transform it into reality. All design layouts and samples of required animations and behaviors are available in ***samples folder***.

General Styling

The web page has a favicon that must be shown in the tab when accessing the web page.

When navigating to different sections of the page, such as when the user clicks on a navigation menu item, the scrolling should be smooth.

The web page has been designed for desktops and mobile versions. You need to make some adjustments for screens with widths of 650px or smaller.

The appearance of text selections should be customised. Match the colour of text selections as shown. The colours used in the design are provided in ***css/pattern.css***.

The font family to be used was provided in ***media/fonts*** as .zip file (you will need to extract them and use them.)

Usability

It is of the utmost importance to deliver a great user experience.

You must ensure that your work addresses common usability concerns and satisfies, at minimum, requirements for WCAG (*Web Content Accessibility Guidelines*) AA. Pay particular attention to your mark-up; you should consider all users, including those using screen readers.

The provided project will be assed with a variety of tools: *Developer Tools*, *axeDevTools*, *WAVE*, *Chrome Lighthouse* (*accesibility*).

Code Quality

You are required to demonstrate your knowledge of modern HTML, CSS and JavaScript.

Write clean, modular code that is easy for other developers to read and understand. Write sensible comments where they are helpful to explain your work and suitable code formatting for easy readability.

Sections

The page is divided into the following sections:

- Header
- Hero
- About
- Newsletter
- Tickets
- Visitor registration
- Footer

★ Header

The header contains the logo and navigation menu.

When clicking on a navigation menu item, the user must be navigated to the corresponding section.

After scrolling at least 50 px, the height of the navigation menu should decrease. Both the header's padding and the logo's height must be reduced. There should be a short transition so that the changes are not instant.

On smaller screens, the header navigation must be hidden. The header should also be shorter to maximise space on the screen for information.

See samples *header_animations.mp4*; *video_desktop_view.mp4* ; *video_mobile_view.mp4*



★ Hero

The hero contains some text against an image slideshow backdrop. The image shown must change every five (5) seconds. Upon changing, there should be a smooth transition, such that one image fades into the next.

The hero section has a decoration pattern that is moving alternatively up/down (see sample *hero_decorations_lines*; *video_desktop_view.mp4*; *video_mobile_view.mp4*)



The “WorldSkills Shanghai 2026” text has a *glow & pulse* effect. The effect is applied continuously in a loop. Apply this effect through CSS or JS not using image manipulation software (see sample *hero_glow_effect.mp4*; *video_desktop_view.mp4*).



The ‘Learn More’ button has a left-to-right transition effect. When the button is hovered, the white background becomes red, while the text becomes white (see sample *buttons_animation.mp4*). Clicking ‘Learn More’ should navigate the user to the tickets section.



★ About

The ‘About’ section includes an introductory text (provided in the media folder) and an image with a subtle shadow that gives it a floating effect. When hovered over, the image zooms in (see sample video *about_img_hover.mp4*).



What is WorldSkills?

The WorldSkills Competition is the world's biggest international skills competition, bringing together young people, industry, education, and government leaders from around the world to advance Technical and Vocational Education and Training.

The 48th edition will be held in Shanghai, China from September 22nd to September 27th, 2026. Long known as the “Pearl of the Orient,” Shanghai combines a rich history with a modern and fashionable international metropolis. This amazing city has already developed a VET system with businesses as the major players, public vocational institutions as the basis, and private training institutions as the supplement.



In addition to text and an image, the ‘About’ section must contain a dynamic countdown that counts down until the following date: *Tuesday 22nd September 2026 at 09:00*. Every second, the countdown must update the remaining:

- Days
- Hours
- Minutes
- Seconds

Note that the timezone will be *Asia/Shanghai*. The timezone offset from UTC is eight (8) hours (i.e., *Asia/Shanghai* is 8 hours ahead of UTC). As such, your countdown should work for *2026-09-22T00:09:00.000+08:00*.

The initial countdown constructor is provided in `js/countdown.js` however, you will need to apply the time zone, add the countdown elements (d,h,m,s) and implement it on the page.

The background of the countdown is a repeating pattern. The CSS for this pattern is provided in the media files (`css/pattern.css`).



★ Newsletter

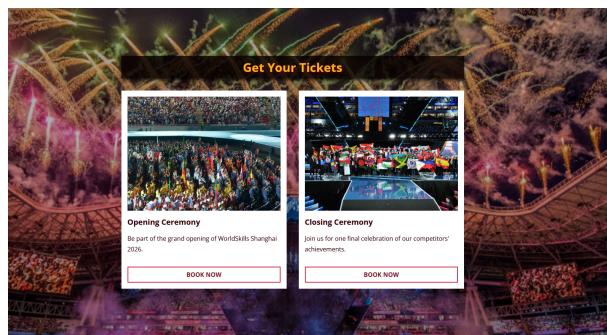
The newsletter section contains some text and a small form for signing up to the newsletter.

The form contains an email input and a submit button. The 'submit' button has the same hover effect as the 'Learn More'. Nothing needs to happen when the form is submitted.

 **Stay Updated**
 Subscribe to our newsletter for the latest news and updates in the lead up to the big event.
 SUBSCRIBE

★ Tickets

The tickets section provides the user with two ticket options: one for the opening ceremony and one for the closing ceremony.



The section has an image with a fixed imagine background effect as its background.

The section title has a transparent background over the background. The title has a small glow effect on hover.



(see sample `tickets_section.mp4`)

The *Book Now* buttons have the same hover effect as the *Learn More* buttons. Nothing needs to happen when clicking *Book Now* for either ticket option.

★ Visitor Registration

The visitor registration section allows users to express their interest in attending one of four dates where the competition venue will be open to the public:

- Tuesday 22nd September 2026;
- Wednesday 23rd September 2026;
- Thursday 24th September 2026; and
- Friday 25th September 2026.

To register as a visitor, users should click *Register Now*. This should open a modal containing, at minimum, input fields for:

- The user's full name
- The user's date of birth
- The user's choice of date(s)

There must also be a button for submitting the form. Nothing needs to happen when the form is submitted, but it should be possible to close the modal.

The design for the visitor registration form is not provided. You are required to create a clean, modern and coherent design for this form yourself.

★ Footer

The footer contains three (3) logos (WorldSkills, WS China & WSUK) that on page load are white. When hovering over them, they reveal the colours. (see sample *footer_animations.mp4*)



The year in the footer (2024) is intended to be dynamic.

Use JavaScript to base the year of the current date, such that it increments every year (e.g., when viewing in 2025, the year would be 2025).

Media Files

Media files are provided in the [media](#) folder.

Unless otherwise stated, such as for the dynamic year in the footer, you must use the provided text exactly. You can use HTML entities in place of some characters, where relevant.

Samples files are provided in the [samples](#) folder.

General Guidance

Implement as many sections as you can within the allocated timeframe.

Task Submission

Archive your project using native archive software on Windows or 7ZIP, naming the archive with your station number and module letter (e.g., *XX_module_a.zip*). You need to submit it before the time runs out. No additional time will be given for submission.

Marking Scheme Summary

SECTION	CRITERIA	JUDGEMENTS MARKS	MEASUREMENTS MARKS	TOTAL
A1	Layout	1	4	5
A2	Design Implementation	2	13	15
A3	Responsiveness	1	4	5
A4	Organisation	1	2	3
A5	Maintainability	0	2	2
TOTAL ALLOCATED MARKS				30