

WSUK – Test Project
Web Development
Stage 2 - Qualifiers Stage

2025

Spark Studios

DESIGN IMPLEMENTATION

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Introduction

In this module, you will complete a **Design Implementation** task, where you must build a web page based on a provided design and a set of client requirements. You must write your solution using **HTML**, **CSS**, and **JavaScript**. You may optionally use one of the following front-end frameworks: *React*, *Vue*, *Vite*, or *Svelte*. You can also use *Bootstrap* or *Tailwind* for styling. However, the test project is designed in such a way that none of these frameworks are required, so you should only use them if you are already confident working with them. No other libraries, packages, or frameworks are allowed. If the submitted work contains additional libraries/frameworks/packages/media, no marks will be awarded.

The test project must not use any CDN (Content Delivery Network); all assets must be stored locally within your project folder. It will use specific web fonts provided by FontAwesome, which are included in the **assets/fonts** folder for reference.

Note¹: *The Test Project (TP) does not require the use of any front-end frameworks. You may use one if you're confident with it, but it's entirely optional. If you do use a framework, your submitted solution must work without any modification. Assessors will not fix, adjust, or troubleshoot your code.*

Note²: *The use of AI tools (such as ChatGPT, Copilot, Claude or similar) is **strictly prohibited**. If any evidence of AI-generated code is found, **no marks will be awarded**, and you will be **disqualified**. You may use [DevDocs.io](https://devdocs.io) for technical documentation only.*

Project Scenario

Spark Studios is a vibrant new photography and digital design agency based in Wales. As they prepare for their official launch later this year, they're looking to build early buzz and attract attention online.

You've been commissioned by Spark Studios to bring their vision to life by developing a **single promotional web page**. They've provided you with a visual design, media assets, and a clear set of requirements to guide your work. Your goal is to build a polished, functional web page using **HTML**, **CSS**, and **JavaScript** — a page that not only reflects their creative identity but can also be shared across social media platforms to drive engagement.

To ensure your submission meets expectations, pay close attention to responsiveness, accessibility, and visual fidelity. The web page should load smoothly across different devices and browsers, follow best practices for semantic HTML, and accurately match the provided design. Creativity within the constraints is encouraged — your implementation should demonstrate both technical skill and an understanding of Spark Studios' bold, modern brand aesthetic.

You will have **3 hours** to complete this task.

At the end of the time limit, you must submit your project by uploading it to the specified location, using the correct naming format provided.

Requirements

General

The provided design includes several sections, all of which must be included in your implementation, at least in part. You are also required to use the supplied favicon and page title so they appear correctly in the browser tab.

Designs for both desktop and mobile resolutions are provided in the **samples** folder. Your web page must accurately reflect both layouts and remain responsive across different screen sizes. Your submission will be assessed at the following resolutions:

- Large: 1920 × 1080 (desktop resolution)
- Small: 400 × 850 (mobile resolution)

However, please note that some sections will have other resolutions as well, as stated in the test project.

Smooth scrolling should be enabled for the whole page. For example, clicking on '**Register Your Interest**' should smoothly scroll to the Registration section, rather than instantly (see *samples/desktop view (1920x1080) - general.mp4*).

Carefully consider how you will code your web page. You should use semantic HTML and cater for common accessibility concerns.

All HTML and CSS must also pass W3C validation checks, and meet contrast compliance standards for readability and accessibility, as verified using tools such as Lighthouse, Axe DevTools and/or WAVE. All JS should execute without causing errors to be displayed in the console.

- Fonts
 - Quicksand-Bold
 - Quicksand-Regular
- Colours
 - Primary: **#b54425**
 - Primary Hover: **#f06e4b**
 - Secondary: **#f2e2ce**
 - Background: **#0a1929**
 - There are other variations and shades. All colours are provided in **assets/css/patterns.css**.
- Icons
 - FontAwesome - Web fonts [official documentation](#).
- General Layout
 - Main container size 1200px
- Work Organisation
 - All files in your solution should be clearly named and well-organised into appropriate folders to support readability and maintainability. Use consistent naming conventions that reflect the purpose of each file. Where applicable, include comments in your code to improve clarity for others reviewing your work.
 - When styling your web page, **inline styles are not allowed** — all styling must be done using external CSS (no CDNs).

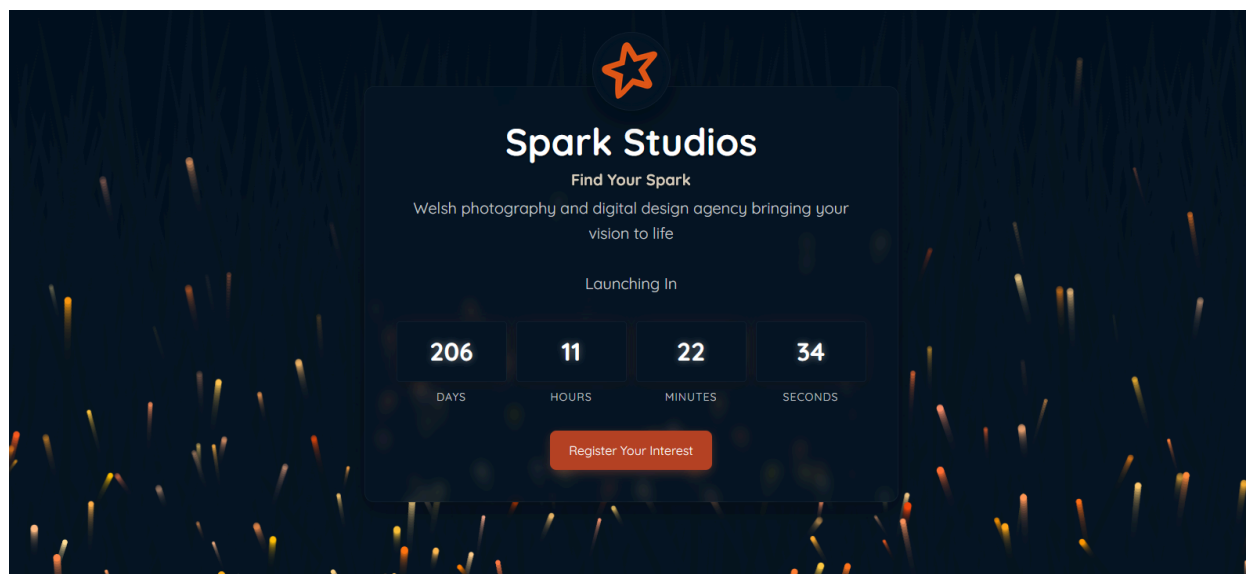
Sections

The web page must be structured into the following sections, as outlined in the design samples:

HERO | ABOUT | SERVICES | REGISTRATION | CONTACT | FOOTER

The page title is “*Spark Studios - Welsh Photography & Digital Design Agency*” and it should have a favicon (*assets/images*)

★ Hero Section



The countdown shows how long is left until Spark Studios officially launches: **December 1st 2025**. It must display accurate values and automatically update every second. The countdown code is partially provided (*assets/javascript/countdown.js*) for the timer, but you will need to include the deadline date and the DOM elements.

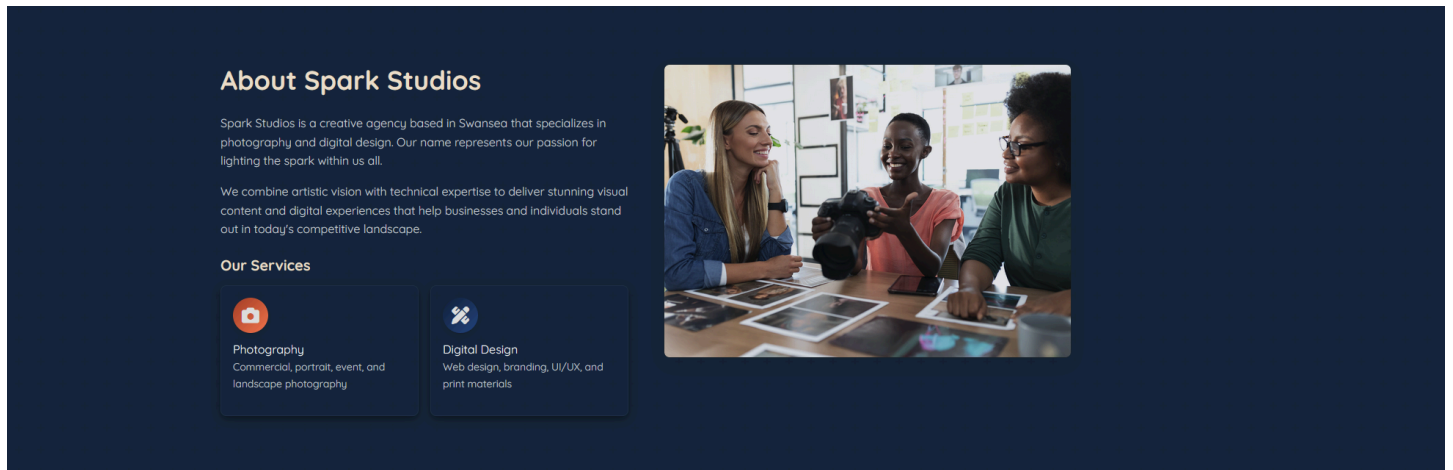
The countdown container has a glass effect with a max width of 800px and the content max 600px. The ‘**Register Your Interest**’ button has a hover effect, and it must link to the Registration section with a smooth scrolling effect. The ‘*Find Your Spark*’ text uses the secondary colour.

see...

- *samples/desktop-1920x1080-full.png*
- *samples/mobile-w400.png*
- *samples/1.hero.mp4*
- *samples/desktop-1920x1080-general.mp4*

The background must display the spark animation exactly as shown in the provided media files. You have been given the JavaScript code needed to play the animation (*assets/javascript/fire-animation.js*) — this script must be included without any changes. To ensure the animation runs correctly, you must add an HTML element that uses the exact same ID referenced within the script.

★ About Section



The section is split into a two-column layout (50-50), with a 3D effect over the services cards and hover effects. The icons used are *fa-camera* and *fa-pen-ruler* with an XL size.

The background of the section is using the *dark-blue-3* with an overlay pattern using *cross.svg* with a 50% opacity.

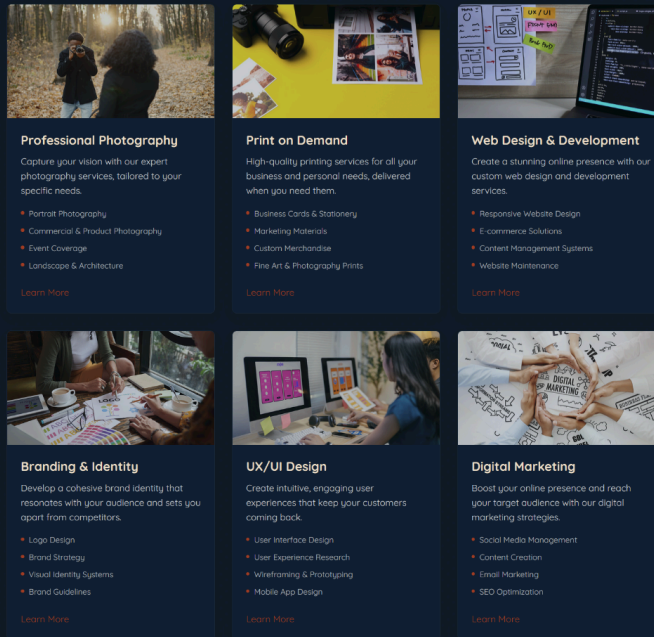
see...

- ★ *samples/desktop-1920x1080-full.png*
- ★ *samples/mobile-w400.png*
- ★ *samples/2.about.mp4*
- ★ *samples/desktop-1920x1080-general.mp4*

★ Services Section

Our Services

We offer a comprehensive range of creative services to help your business stand out in today's competitive market.



The section is split in a 3-column layout, with a 3D effect over the services cards and hover effects.

The background of the section is using the **dark-blue-2** with an overlay pattern using **dots-uniform.svg** with a 25% opacity.

Each service card uses a semi-transparent glass-like effect with hover shadow lift and blurred backgrounds.

Clicking '**Learn More**' must navigate to the Registration section.

Mobile view breaking points are

Layout: 3 columns for large desktops $\geq 992\text{px}$

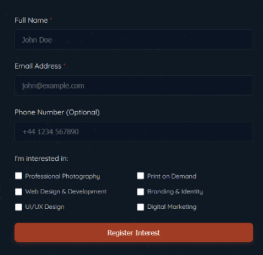
Layout: 2 columns for tablets and small laptops $< 768\text{px} - 991\text{px}$

Layout: 1 column for mobile devices $< 768\text{px}$

see...

- ★ ***samples/desktop-1920x1080-full.png***
- ★ ***samples/mobile-w400.png***
- ★ ***samples/3.services.mp4***
- ★ ***samples/desktop-1920x1080-general.mp4***

★ Registration Section



Register Your Interest
Be the first to know when we launch and receive exclusive offers

Full Name
John Doe

Email Address
john@example.com

Phone Number (Optional)
+44 1234 567890

I'm interested in:

- ☐ Professional Photography
- ☐ Print on Demand
- ☐ Web Design & Development
- ☐ Branding & Identity
- ☐ UI/UX Design
- ☐ Digital Marketing

Register Interest

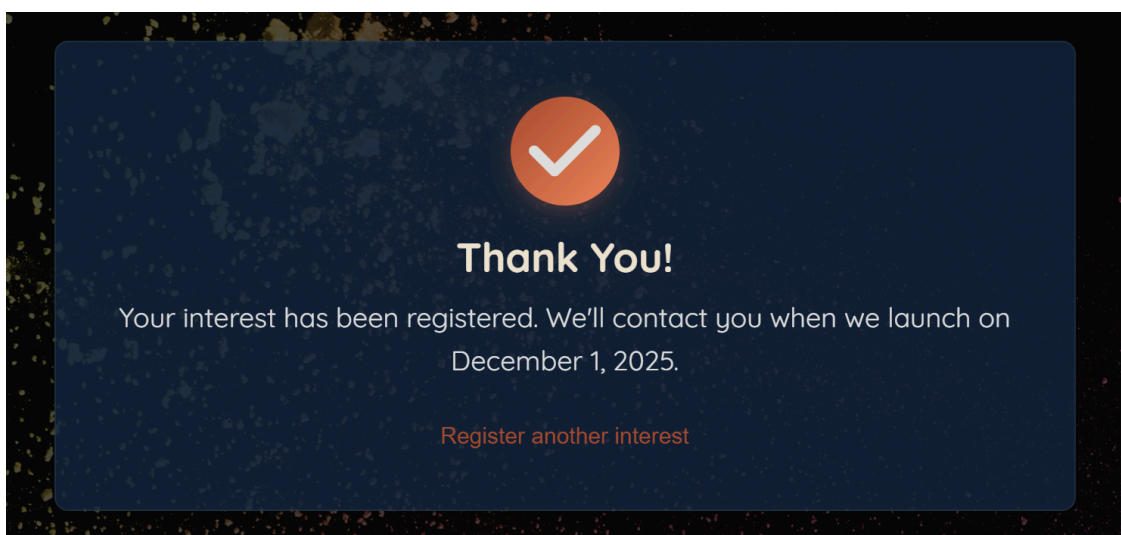
The background of the section contains a parallax effect, whereby the background image *parallax-bg.jpg* appears to move at a slower pace than the foreground (form) upon scrolling. The background also contains a semi-transparent dark overlay layer using *(rgba(10, 10, 10, 0.7))*.

You should implement appropriate validation using HTML and/or JS. It should not be possible to submit the form unless all required fields have a value entered. All values must also be of a suitable type and format.

The form must include:

- A name field (required)
- An email field (required) - `"^\\S+@\\S+\\.\\S+$"`
- A phone number field (optional) - `"^\\+?[0-9\\s]*$"`
- Interest fields as tick boxes

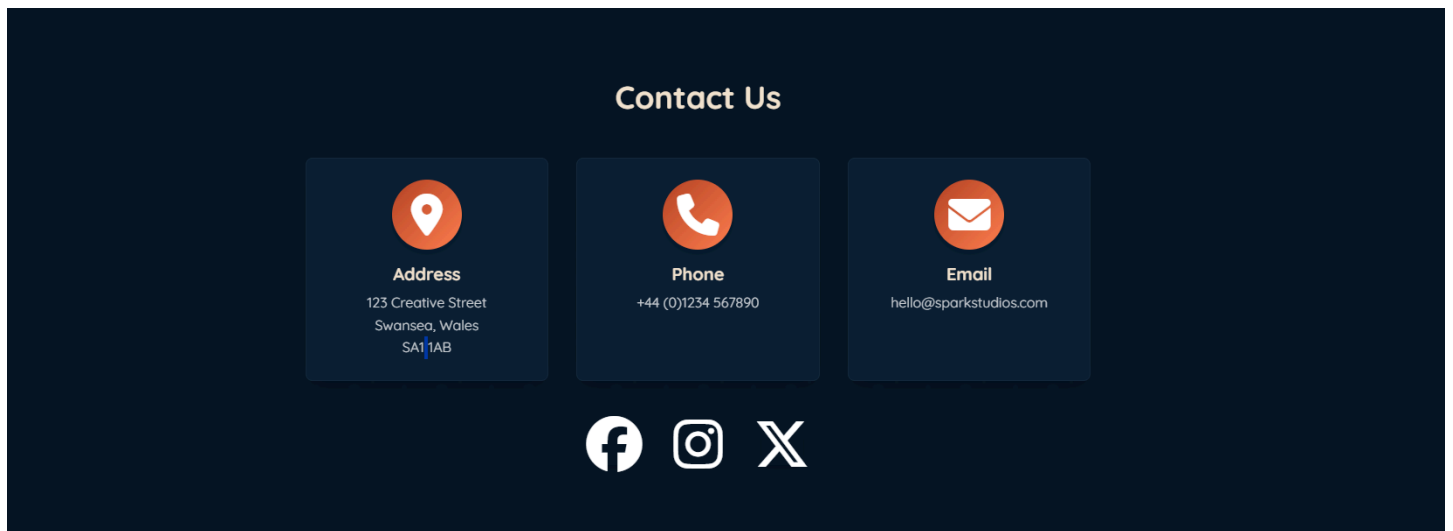
For now, the form does not need to submit data anywhere. However, it needs to simulate a successful send with a 'Thank you' message. The icon used is *fa-check* with a 3x size.



see...

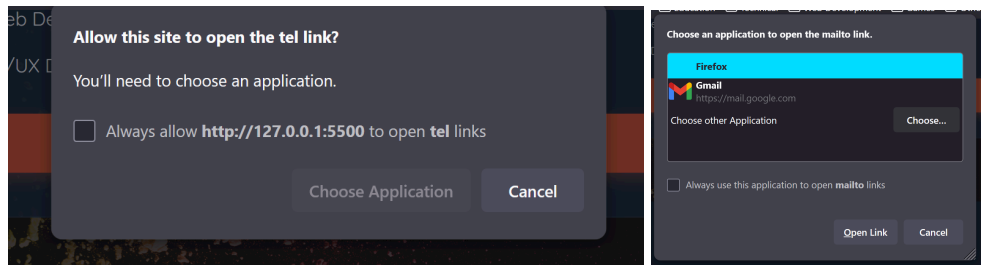
- ★ *samples/desktop-1920x1080-full.png*
- ★ *samples/mobile-w400.png*
- ★ *samples/4.registration.mp4*
- ★ *samples/desktop-1920x1080-general.mp4*

★ Contact Section



The background of the section is using the *dark-blue-1* with an overlay pattern using *dots.svg* with a 50% opacity. The icons used are *fa-map-marker-alt*, *fa-phone* and *fa-envelope*, all with a 3x size and gradient-fire. There is a hover effect over the cards.

Phone numbers should prompt a phone call when clicked. Email addresses should prompt the user to compose an email. Use appropriate values for the `href` attribute to achieve both of these behaviours.



The social icons brands are *fa-facebook*, *fa-instagram* and *fa-x-twitter*, all with a 4x size. There is also a hover effect on the icons.



For now, social media icons can use dummy `href` values instead of linking to their respective pages, e.g., '#'.

see...

- ★ *samples/desktop-1920x1080-full.png*
- ★ *samples/mobile-w400.png*
- ★ *samples/5.contact.mp4*
- ★ *samples/desktop-1920x1080-general.mp4*

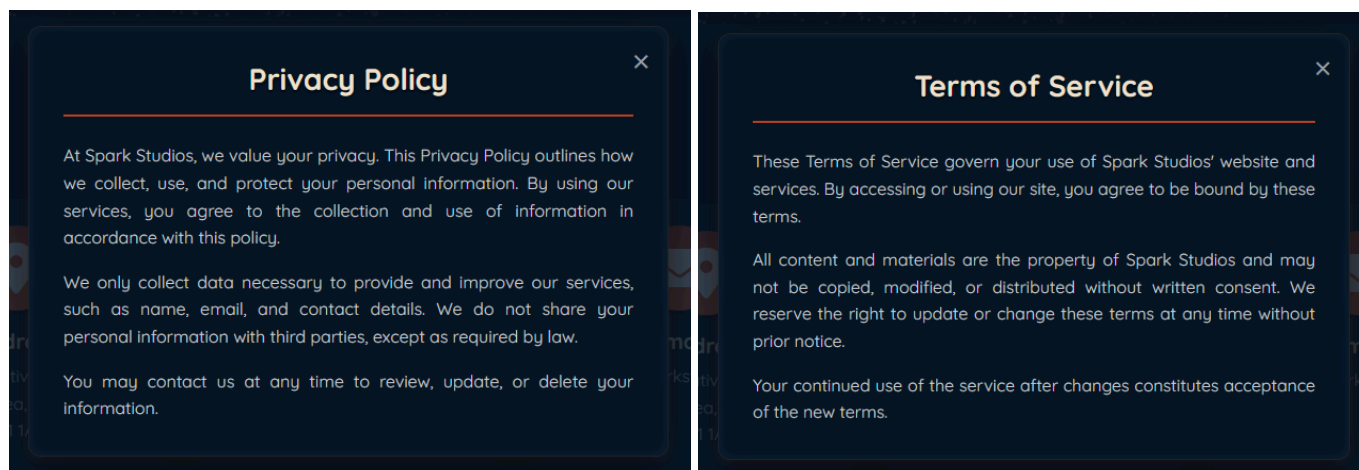
★ Footer & Modals

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[Privacy Policy](#) [Terms of Service](#)

The current year must be dynamically updated using JS. This should match the actual current year, as per the user's device.

The '**Privacy Policy**' and '**Terms of Service**' have a hover effect, and they will open a modal. The modals have a maximum width of 600px and use the background colour *modal-bg*.

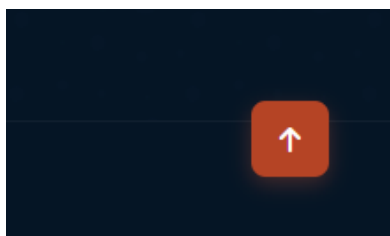


see...

- ★ *[samples/desktop-1920x1080-full.png](#)*
- ★ *[samples/mobile-w400.png](#)*
- ★ *[samples/6.footer.mp4](#)*
- ★ *[samples/desktop-1920x1080-general.mp4](#)*

★ Back-to-top

The page will have a '**Back-to-top**' button that, on page reload, will be hidden. It is only when the page is scrolled at least 200px down that this button will appear. The icon used is *fa-arrow-up*. The button has a hover effect and, when clicked, will smoothly return to the top of the page, after which it will disappear. The button should not be shown on mobile devices with widths < 768px.



see...

- ★ *[samples/6.footer.mp4](#)*
- ★ *[samples/desktop-1920x1080-general.mp4](#)*

Instructions to the Competitor

Implement as much as you can within the given time. Partial marks may be given for partial attempts.

Preview your web page at each of the provided screen resolutions to ensure it works well on both larger and smaller screens.

Do not modify the media files directly. You may, however, use CSS and/or JS to make small tweaks, e.g., to add effects to images.

Media Files

The media files and samples are provided for you to use when creating the web page.

*You must not alter the provided media files using any editing software (e.g., Photoshop or similar). All resizing, positioning, and visual adjustments must be handled solely through CSS. **Marks will be deducted** if media files are edited directly instead of being styled through code.*

Media	Details
Images & Logo	See <i>assets/images</i>
Texts	See <i>assets/texts</i>
Fonts	See <i>assets/fonts</i>
Icons	See <i>assets/css/fontawesome.zip</i> and <i>assets/css/webfonts.zip</i>
CSS Variables	See <i>assets/css/patterns.css</i>
JS	See <i>assets/javascript</i>
Samples	See <i>samples/</i> folder

Submission

Archive your project using native archive software on Windows/Mac or 7ZIP, naming the archive with your competitor code that was sent via email (e.g., d1c1.zip). You need to submit it to your dedicated folder no later than 13:00.

General Marking Scheme

No	Criteria	Total Marks
A1	General Layout	10
A2	Design Implementation	25
A3	Responsiveness	5
A4	Organisation	5
A5	Maintainability	5

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