

REASON DIGITAL

Wordpress Task

Feb 21

Hello - Welcome to our Technical Task!

There is no 'right' or 'wrong' answer to this task; we use this to determine your familiarity with some of the tech we use, and how you go about architecting and writing code.

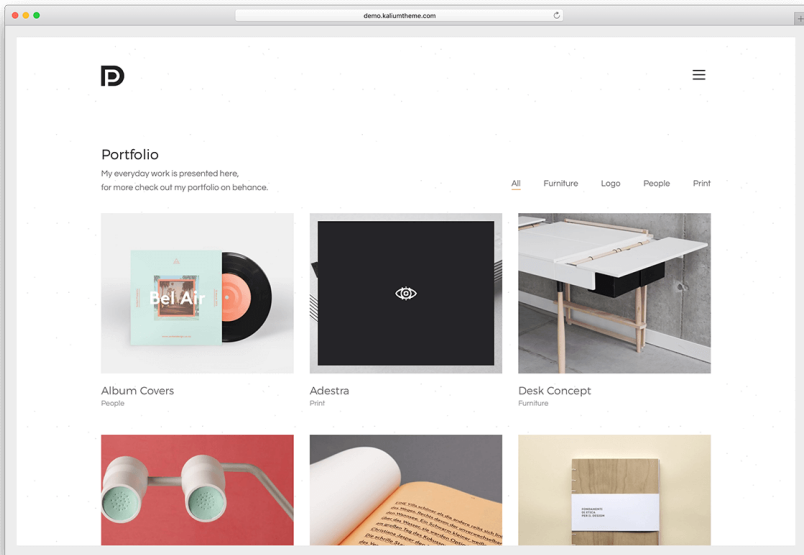
There is no time limit as such, but we'd appreciate it if you could respond **within the next three days**. If this will not be possible then please let us know when we can expect a response.

Task

Step 1

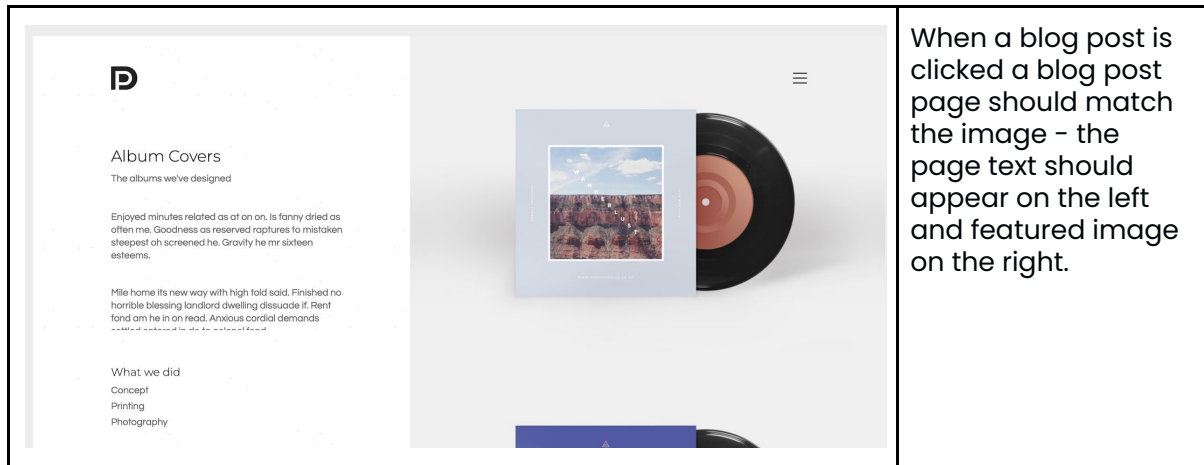
Create a new WordPress and install locally. Add a few blog posts with random content.

Create a WordPress theme from scratch that looks like the following:

A screenshot of a web browser displaying a demo of a WordPress portfolio theme. The browser window has a title bar with standard OS controls and a URL bar showing 'demo.kallumtheme.com'. The website has a clean, minimalist design with a white background. At the top left is a logo consisting of a stylized 'D' inside a square. To the right of the logo is a hamburger menu icon. Below the logo, the word 'Portfolio' is followed by a short paragraph: 'My everyday work is presented here, for more check out my portfolio on behance.' To the right of this text is a horizontal navigation menu with links: 'All', 'Furniture', 'Logo', 'People', and 'Print'. The main content area displays a grid of six featured images. Each image has a caption below it: 'Album Covers' (with 'People' below), 'Adestra' (with 'Print' below), 'Desk Concept' (with 'Furniture' below), and three others without captions. The images include a vinyl record, a black book cover with a white eye logo, a modern desk, a pair of white speakers, an open book, and a wooden box.

The images should come from the featured images of the posts (the images in your random posts do not need to match the example).

The menu should be built using the WordPress menu system.



When a blog post is clicked a blog post page should match the image - the page text should appear on the left and featured image on the right.

When completed please send us the code for the theme and the database so we can create it locally.

Step 2

Create a WordPress plugin from scratch that does the following:

- 1) When a page is created it makes a HTTP POST JSON request that includes the id of the page that has been created
- 2) When a page is modified it makes a HTTP POST JSON request that includes the id of the page that has been modified
- 3) When a page is deleted it makes a HTTP POST JSON request that includes the id of the page that has been deleted
- 4) The calls need to be de-bounced every 1 hour, so that if the same page is modified 5 times in 1 hour, only one HTTP request is made
- 5) Bonus: de-bounce all HTTP calls and send all changes in one payload as an array

Example payload:

```
{
```

```
    action: "created",  
    pageId : 123,  
  }  
  
  {  
  
    action: "modified",  
    pageId : 123,  
  }  
  
  {  
  
    action: "deleted",  
    pageId : 123,  
  }
```

Example bonus payload:

```
[  
  
  {  
  
    action: "modified",  
    pageId : 123,  
  },  
  
  {  
  
    action: "modified",  
    pageId : 124,  
  }  
]
```

Please send us the code for the plugin so we can test locally.

What we are looking for:

- Clean easy to read code
- Using WordPress built in functions where necessary
- Well organised code
- Good understanding of the WordPress underlying systems

What we are not looking for:

- Pixel perfect replicas of the designs

As stated in the introduction – there isn't one single 'right' solution that we are looking for. This task is set up to assess your skills and to give us an insight into your working process.

We will chat over your solution at interview. As well as the output of the exercise we are also interested in your reflections on it – so please don't let perfect be the enemy of done!

Please let us know if anything is unclear, or if you have any further questions by responding directly to the email this was attached to

All the best

The Reason Team