

Kasa is recruiting you as a freelance front-end developer to develop their new web platform. Kasa has been in the apartment rental business for almost 10 years now. With more than 500 ads posted every day, Kasa is one of the leaders in apartment rentals in France.

The perfect opportunity for you to add a great reference to your freelance portfolio!

Kasa's website was coded more than 10 years ago in ASP.NET with a lot of legacy code. Laura, the CTO, launched a complete redesign to move to a full JavaScript stack with NodeJS on the back-end, and React on the front-end. Kasa also took the opportunity to order new models from its usual designer, who is freelance. A big project for this year!

An update is planned with the CTO later this week, but so that you can familiarize yourself with the stakes of your mission you will find the following summary in your mailbox:

Subject: Brief redesign of the Kasa website

From: Laura

To: me

Hello,

Welcome to your first day!

We're really excited to have you on board!

You'll be able to help us bring to life a project we've been working on for several months.

I'd rather write down some background information that will help you get started on your mission before we meet on Thursday.

Your objective

Start the React project and develop the whole application, the React components, the React Router routes, following the Figma mockups (responsive!) and all the information I give you below. And this with a quality code!

Back-end / data : The recruitment of the person in charge of the Back-End is not finished and will take more time than expected. So, you'll have to do without for the moment. I've extracted the last 20 housing ads in this JSON file so you can build the corresponding Front-End.

Technical constraints

You can find the Kasa coding guidelines [here](#).

I hope this little summary has given you enough information to start your first days with us with peace of mind.

Have a nice day!

Laura

Later in the day, you receive an email from Paul, the designer, who gives you more information about the design and functionality of the site.

Subject: Functionality and design

From: Paul

To: me

Hi there,

Welcome back! Laura told me to brief you on the design of the new version of the site so here's the key info.

Design

Here are the mockups on Figma for the interface design. I'm used to work with component logic on Figma, Sandra told me that it will make your work on React easier. You will find all the resources you need directly in the model (logo, icons for components, etc.). To do this, just click on the resource you want and click on "Export" in the desired format.

Functional constraints

Some details on the functionalities of the site:

- For the scrolling of the photos in the gallery (Gallery component):
 - o If the user is at the first image and clicks on "previous image", the gallery displays the last image.
 - o Conversely, when the displayed image is the last one in the gallery, if the user clicks on "next image", the gallery displays the first image.
 - o If there is only one image, the "next" and "previous" buttons do not appear.
 - o The gallery must always remain at the same height as shown on the Figma layout. The images will therefore be collapsed and centered in the image frame.
- Collapse: By default, collapses are closed when the page is initialized.
- If the Collapse is open, the user's click will close it.
- o Conversely, if the Collapse is closed, a click allows to open it.

Good luck with the development, I can't wait to see how it turns out!

Paul

That's it, you have all the necessary information, you can start your development!

Deliverables

- The link to the GitHub repository containing all the project code:
 - o The React code of the project
 - o The React Router code for the routes in a dedicated file

The GitHub repo must be named with the following convention: FullName_#_DatedStart. The # corresponds to the project number on the route and the date must be in ddmmyy format. For example, FrancoisLenotre_5_05032020.

Oral presentation

During the oral presentation, the mentor will interpret the role of the CTO. The defense is structured as follows:

- Presentation of the deliverables (15 minutes)

Presentation of the different pages, with the navigation between them, and interactions with all interactive elements.

Review of the code files with the mentor. Highlighting of the different React components.

- Discussion (10 min)

- o The mentor, who plays the role of the CTO, will ask questions about the methodology adopted and the deliverables.

The mentor will challenge you as much as possible on the technical decisions you have made, so you will need to be able to justify them, and defend your work. At the end of the presentation, the mentor will stop playing the role of CTO to allow you to debrief together.

Skills assessed

- Create components with React
- Develop the routes of a web application with React Router
- Initialize a web application with a framework