

KaziQuest Full Stack Developer Django Recruitment Test

Thank you for taking the time to do our technical test. It consists of two parts:

- A coding test
- A few technical questions

Coding Test

Create a simple HR system that shows company assets and leave days/time-off with two users:

1. Employer
2. Employee

The task is to create a web application in Django and Vue that allows a company admin to see which employee has which assets e.g., company laptop, hard disk, books etc. and their leave days/time-off.

The employer can sign up using a form with the form having the following fields:

- Name
- Role/Position
- Company
- Email
- Phone Number
- Number of employees (Select from a dropdown)

After signup the user who created an account using the form must verify their email address to access the company dashboard.

The employer can then add an employee by entering their name and email address to a form in the dashboard. The employee will receive an email where they will choose a password that they'll use to login.

As an employee the only way I can use the application is after being added to the system by the employer.

As an employee I can edit/update my profile details such as date of birth, phone number, ID number, KRA PIN and request for time-off or leave days.

As an employer I can assign an existing employee an asset (laptop, hard disk, powerbank, phone, keys, books etc) and view the company inventory which shows

which employee has which asset and the number of leave days taken and or remaining.

As an employer I can edit/update the current employee position or role e.g update from Front End Developer to iOS Engineer.

As an employer am able to see real time notifications when any employee has logged in, updated/edit profile and logged out. Implement the notifications using <https://pusher.com/channels> Pusher has a Free Sandbox Plan that you can use.

Once you complete the test, notify us so via email that we can provide you with a public IP where you'll deploy the application. In your email, please include your public key that you shall use to access the server and your response to the technical questions.

Technical questions

Please answer the following questions in a text file called Answers to technical questions.txt send the file once you complete the coding test.

1. How long did you spend on the coding test? What would you add to your solution if you had more time? If you didn't spend much time on the coding test then use this as an opportunity to explain what you would add.
2. What was the most useful feature that was added to the latest version of Django? Please include a snippet of code that shows how you've used it.
3. How would you track down a performance issue in production? Have you ever had to do this?
4. How did you fetch data from the Django backend and display it in Vue?
5. Please describe yourself using JSON.

Acceptance Criteria

- Deployed application on our public IP
- Company leave days/time-off per employee
- Company assets inventory
- Realtime Notifications

Thanks for your time, we look forward to hearing from you!