

## Task:

Create an API for a simple recruitment system where users can apply for jobs

## Tech stack:

Django (ideally with DjangoRestFramework),

PostgreSQL database

Version Control System to share your solution with us (Github, Gitlab or any you like)

Table “jobs” should contain meta data about the job like “name” and “type”. The type should accept only 2 options: “full-time” and “part-time”

Table ‘job\_headers’ contains data about the visual representation of the job. In our example it will contain “rich\_title\_text” and “rich\_subittle\_text”. Both fields will contain HTML text. For example “<b>Backend Developer in Mojob</b>”

Table ‘applications’ links the user with the job. One user can apply to multiple jobs, but every application should be attached only to one job. In this example, it will not have any additional data.

## Your goal is to:

- Create models based on the description above
- Create endpoints for creating, updating, and deleting jobs with job headers (ideally with a single call).
- Create an endpoint that returns a job with a fully serialized job header for provided job\_id
- JobHeaderSerialzier should additionally return “plain\_title\_text” which will be text without HTML tags.
- Create an endpoint that returns all applications for provided user\_id
- Whenever the job is created call method ‘send\_job\_created\_email’. Here is an implementation of the method:

```
def send_job_created_mail(job_id):  
    print("JOB CREATED")
```
- Whenever the job is updated call method ‘send\_job\_updated\_email’. Here is an implementation of the method:

```
def send_job_updated_mail(job_id, old_title_rich_text,  
new_title_rich_text):  
    print("JOB UPDATED")  
    print("OLD JOD TITLE: {}".format(old_title_rich_text))  
    print("NEW JOB TITLE: {}".format(new_title_rich_text))
```
- Create an admin app for jobs

All endpoints should be accessible only to authenticated users.  
All endpoints should use JSON format.

Please include example inputs and outputs from the endpoints.