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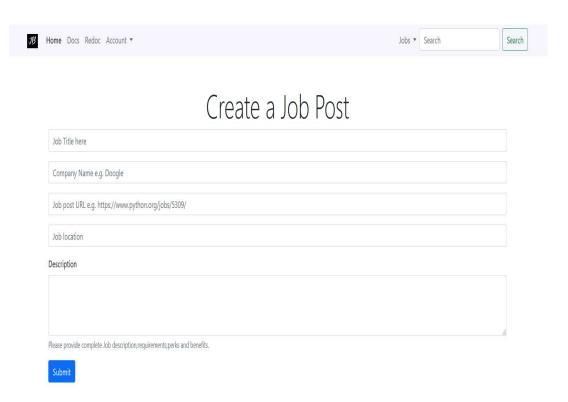
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31 : Fastapi and Jinja to Create a Job Post



We are going to implement a feature that will allow our admins and website users to create a Job post. We want a form like this which our users will fill and afterward will be redirected to the detail page of the job post.



We need a way to validate the form, again I am going to use the same technique of creating a class and validating the POST request in its methods. We will pass the Request to initialize an object of the class and later load data into its attributes and validate the data. You might think, why I am not using Pydantic classes? It's because Pydantic classes have a default behavior to raise exceptions whenever anything is wrong. Lets create a new file webapps > jobs > forms.py and put the below code in it.

```
Сору
 from typing import List
 from typing import Optional
 from fastapi import Request
 class JobCreateForm:
     def init (self, request: Request):
         self.request: Request = request
         self.errors: List = []
         self.title: Optional[str] = None
         self.company: Optional[str] = None
         self.company url: Optional[str] = None
         self.location: Optional[str] = None
         self.description: Optional[str] = None
     async def load_data(self):
         form = await self.request.form()
         self.title = form.get("title")
         self.company = form.get("company")
         self.company_url = form.get("company_url")
         self.location = form.get("location")
         self.description = form.get("description")
     def is_valid(self):
         if not self.title or not len(self.title) >= 4:
             self.errors.append("A valid title is required")
         if not self.company url or not (self.company url. contair
             self.errors.append("Valid Url is required e.g. https:/
         if not self.company or not len(self.company) >= 1:
             self.errors.append("A valid company is required")
         if not self.description or not len(self.description) >= 20
```

```
self.errors.append("Description too short")
if not self.errors:
    return True
return False
```

Now, we can use the form in our POST request, Lets design a function that provides a form in GET request and should accept, validate and save data if POST request. Type the following code in webapps > jobs > route_jobs.py

```
Copy
 #new additional imports
 from db.models.users import User
 from apis.version1.route login import get current user from token
 from webapps.jobs.forms import JobCreateForm
 from schemas.jobs import JobCreate
 from db.repository.jobs import create_new_job
 from fastapi import responses, status
 from fastapi.security.utils import get authorization scheme param
 #...
 @router.get("/post-a-job/")
                                    #new
 def create_job(request: Request, db: Session = Depends(get_db)):
     return templates.TemplateResponse("jobs/create job.html", {"rε
 @router.post("/post-a-job/")
                                 #new
 async def create job(request: Request, db: Session = Depends(get c
     form = JobCreateForm(request)
     await form.load_data()
     if form.is_valid():
         try:
             token = request.cookies.get("access token")
             scheme, param = get authorization scheme param(
                 token
             ) # scheme will hold "Bearer" and param will hold act
             current user: User = get current user from token(token
             job = JobCreate(**form. dict )
             job = create new job(job=job, db=db, owner id=current
```

Now, you might have several questions, Why we are extracting token from cookies here? What is this scheme and param? It's just that we need access to the current user to create a job post, It's because every job post has an owner field that is foreign-key to a user.

Ok, then why don't we do this?

Definitely, this code is much cleaner and readable and gives us the current user. But only if the user is logged in and the token has not expired,

Otherwise it raises an exception and our website users will see a

JsonResponse "Not Authenticated" like this.



We don't want such error messages, without a UI. That's why I thought maybe we can extract the token by ourselves and pass the token to get_current_user_from_token function and get the current user manually.

Yup, it made the code dirty but at least it works. We will find a way to fix it later.

We don't need to register these 2 functions to main.py > app because the router is already registered in **webapps** > **base.py**.

The backend portion is done, Now moving to the frontend aspect. Create a new file **templates** > **jobs** > **create_job.html** and paste the below template code.

```
Сору
 {% extends "shared/base.html" %}
 {% block title %}
    <title>Create a Job Post</title>
 {% endblock %}
 {% block content %}
    <div class="container">
     <div class="row">
        <div class="text-danger font-weight-bold">
          {% for error in errors %}
            {{error}}
          {% endfor %}
        </div>
      </div>
     <div class="row my-5">
        <h3 class="text-center display-4">Create a Job Post</h3>
        <form method="POST">
          <div class="mb-3">
            <input type="text" required class="form-control" name="t</pre>
          </div>
          <div class="mb-3">
            <input type="text" required placeholder="Company Name e.</pre>
          </div>
          <div class="mb-3">
            <input type="text" required placeholder="Job post URL e.</pre>
          </div>
          <div class="mb-3">
```

Time to test our new feature: visit http://127.0.0.1:8000/post-a-job/

In case you want to hide this feature from the general public, You can simply keep this url for this page secret and not put it in the navbar. If you don't want to publish a job post instantly and review before publishing, You can make use of the <code>is_active</code> field on the Job Model. When someone non-admin creates a job post it can be <code>False</code> by default.

Git Commit: https://github.com/nofoobar/JobBoard-

Fastapi/commit/bec0017a0d8ca380ef27dac52c2932d5880a6d9b

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