

Task for Django Backend Developer

You have to create a django application which provides REST APIs for a simple usecase as described below:

1. Model Specifications:

- a custom user model called 'Profile' which has following fields (other than name, email, etc.)

- phone number (must be unique)
- gender (choices are: male, female, other)
- profile pic (an image upload field)
- date of birth (a date or datetime field)
- permanent address (must be a one-to-one field of Address model)
- company address (must be a one-to-one field of Address model)
- friends (must be a many-to-many field of Profile model)

- the 'Address' model must contain following fields:

- street address
- city
- state
- pincode
- country

2. Admin Customizations:

- In the Profile table:

- user's profile pic must be visible
- option to search users by name
- option to filter users on the basis of
 - gender
 - address city

3. APIs:

- Implement following authentication APIs (use Token as well as Basic Authentication):

- Register new user with basic details like
 - name (required)
 - email (required)
 - phone no. (required)
 - password (required)
 - gender (optional)
 - date of birth (optional)
- Login
- Logout

- Profile APIs (all requests can be made only by authenticated users, referred by 'me' below):

- Retrieve my profile details
- Patch my profile details (any possible detail must be editable using this API)
- List profiles of other users:
 - profile detail should contain following fields only:
 - id,
 - name,
 - gender,
 - profile pic url,
 - permanent address city,
 - is person my friend,
 - count of mutual friends.
 - option to filter API results on the basis of gender, permanent address city
- Add/Remove any user to/from my friends list

Note:

1. Use django rest framework.
2. Host the django application on cloud platform of your choice (Heroku, AWS, digitalocean, etc).
3. Try to follow best Git practices.
4. Upload the code to a private Github/Gitlab repository only.
5. You have to share 3 things with us:
 - URL of hosted application (with admin access)
 - URL of postman collection containing all the API documentation + examples
 - Link to your code repository on github/gitlab + send an invite to view your private repo to @nikhilkumarsingh
6. For any technical query, email at nikhil@halanx.com.

Deadline: 20 Sep 2019, 11:59 PM