



# **XonTel Python Developer Task**



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# Task Overview

## ***Simple Online School Management Application:***

Where users (teachers, students) can register but won't be able to login until the administration activate their profile

- Each teacher can only teach a single course
- Each student can enroll himself in multi course

## ***Implementation:***

- Using the django rest framework and django admin panel Only
- Should implement rest framework auth token
- All **list** api's should have a pagination



# General Instructions (Roles)

## Teacher:

- 1- as a teacher i can sign-up as a user of type teacher
- 2- update my own profile only
- 3- view students enrolled only in my course
- 4- view only my courses history



# General Instructions (Roles)

## Student:

- 1- as a student i can sign-up as a user of type student
- 2- update my own profile only
- 3- view all my courses i have enrolled
- 4- enroll/leave course before the course start date



# General Instructions (Actions)

- 1- Signup (for both student , teacher)
- 2- Login (for both student , teacher)
- 2- update profile (for both student , teacher)
- 3- view all courses (for both student , teacher)
- 4- enroll/leave course before the course start date



## General Instructions (Admin Panel)

- All models should be registered to the django built-in admin panel
- Course model add search by name,teacher\_name



# General Instructions (Models)

## 1- User:

- Use the built-in user model override it to add the different types of users
- Extra Fields:
  - User\_type['teacher','student']
  - gender
  - date\_of\_birth
  - cv ( for teacher users)

### Actions:

- On Create send mail to admin to make him decide to activate the user(with two different way - bonus )





# General Instructions (Models)

## 2- Course:

### - Fields:

- name
- start\_date
- end\_date
- Active
- Any extra fields are welcomed

### Actions:

- Only active courses can be enrolled
- Admin is the person who will create the course and assign teacher for it



# General Instructions (Models)

**All relations between models should be implemented by you**

**Also if any other model needed to complete the task should be implemented by you (eg: if needed to create an enrollment model between user and course ,etc..)**



## Bonus

- Using restframework test client
- Following Solid ,Dry,Kiss principles
- Using type hinting & docstring
- Using restframework versioning (url type versioning)
- Add export and import in student model
- Add command to activate user



# Delivery & deadline

## Delivery:

- should be on a private bitbucket repository
- Attach the postman collection within the repository

## DeadLine:

- **Tuesday 27/02/2024 .**