

django
REST

آزمون برنامه نویسی Django REST Framework (DRF)

Django REST Framework (DRF) test

Sample Questions

سطح آزمون: متوسط

آزمون Django REST Framework

Django Rest Framework Test

این آزمون مهارت و توانایی شما را در دانش کلی DRF ، مدل‌ها، serializerها و viewها ارزیابی می‌کند.

لطفا پیش از شروع آزمون به نکات زیر با دقت، توجه کنید:

- این آزمون از 16 سوال تخصصی تشکیل شده است و نمره منفی ندارد.
- زمان آزمون 20 دقیقه می‌باشد و قابل تمدید نیست.
- این آزمون به زبان انگلیسی طراحی شده است.
- در بعضی از سوالات شاید همه گزینه‌ها صحیح باشند ولی شما باید گزینه‌ای که از بقیه موارد، جامع‌تر و دقیق‌تر می‌باشد را انتخاب کنید.

1. Review the following code structure:

```
class WorkingCenter(models.Model):
    name = CharField(max_length=100)

class Employee(models.Model):
    name = CharField(max_length=100)
    last_name = CharField(max_length=100)
    working_center = models.ForeignKey(WorkingCenter)

class Contract(models.Model):
    start_date = models.DateTimeField()
    end_date = models.DateTimeField(null=True)
    employee = models.ForeignKey(Employee)
```

Can you execute the following code to access the list of contracts of an employee?

```
employee = Employee.objects.get(id=1)
contracts = employee.contracts.all()
```

- Yes, and the result will be a queryset.
- It is not possible to access the contract list directly from an employee. To do so, it is necessary to execute the following line of code:

```
contracts =
Contract.objects.filter(employee=employee)
```

- The code will fail, but changing the Contract model will make it work, as

```
employee = models.ForeignKey(Employee,
on_delete=models.CASCADE,
related_name='contracts')
```

follows:

- No, the code will fail. The correct line of code is:

```
contracts = employee.get_contracts.all()
```

The reason is that every Model implements generic getters to access linked models.

2. Select the existing fields for a ModelSerializer definition.

- SerializerMethodField
- CharField
- BooleanField
- IntegerField
- StringField
- MatrixField
- DocumentField
- ObjectField

3. Which methods could you override to change the behavior of a ModelViewSet view that creates a new object?

- `def perform_create(self, serializer):`
- `def create(self, request, *args, **kwargs):`
- `def post(self, request, *args, **kwargs):`
- `def put(self, request, *args, **kwargs):`

4. Using the Django REST Framework, you are developing an API in which you have one endpoint to create an employee. To do so, your endpoint will expect the following JSON structure:

```
{
  name: "Employee name",
  last_name: "Employee last name",
  expertise: "Description of the expertise"
}
```

Which component of DRF is responsible for validating every input field?

- The serializer
- The view
- The model
- The validation middleware