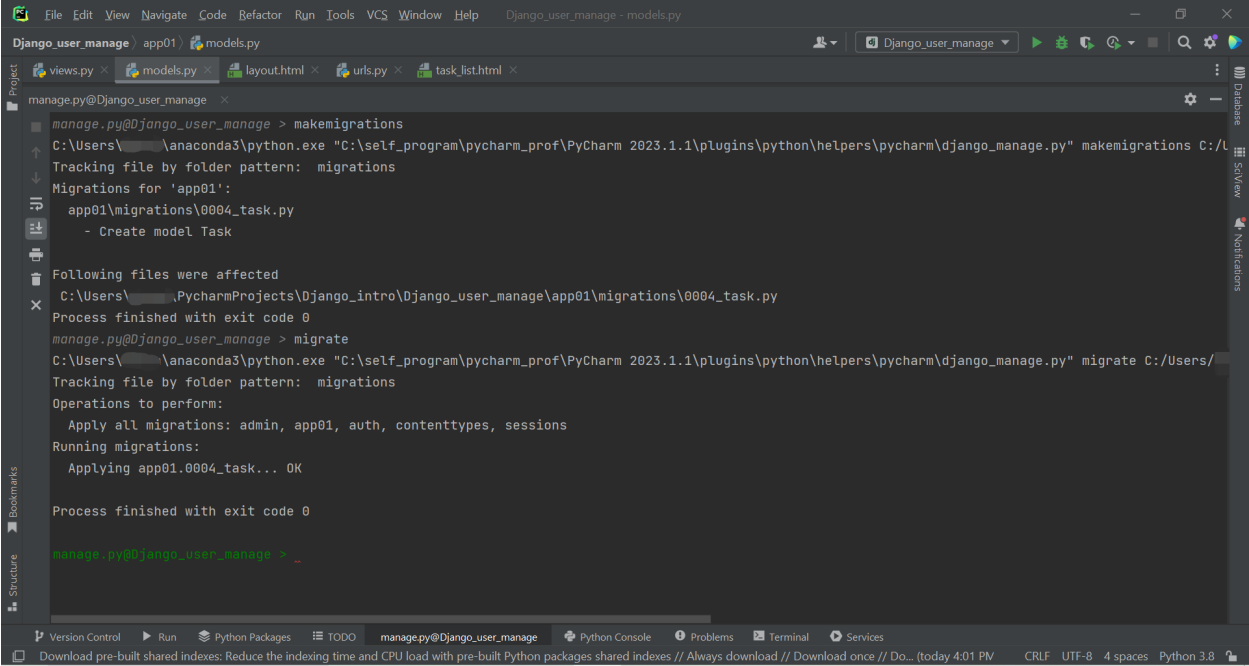


ajax example

1. create table

```
class Task(models.Model):
    title = models.CharField(verbose_name="TaskTitle", max_length=64)
    detail = models.TextField(verbose_name="Detail")
    level_choices = {
        (1, 'serious'),
        (2, 'important'),
        (3, 'temporary'),
    }
    user = models.ForeignKey(verbose_name='Principal', to="Admin", on_delete=models.CASCADE)
```



2. create model form for Task

```
class Admin(models.Model):
    username = models.CharField(verbose_name='Admin_name', max_length=32)
    password = models.CharField(verbose_name='Password', max_length=64)

    def __str__(self):
        return self.username
```

```
class TaskModelForm(BootStrapModelForm):
    class Meta:
        model = models.Task
        fields = "__all__"
        widgets = {
            # "detail": forms.Textarea
            "detail": forms.TextInput,
        }
```

```
{% extends 'layout.html' %}

{% block content %}
    <div class="container">

        <div class="panel panel-default">
```

```

        <div class="panel-heading">Task</div>
        <div class="panel-body">
            <form method="post" novalidate>
                <div class="clearfix">
                    {% for field in form %}
                        <div class="col-xs-6">
                            <div class="form-group">
                                <label>{{ field.label }}</label>
                                {{ field }}
                            </div>
                        </div>
                    {% endfor %}
                </div>
                <div class="form-group">
                    <button type="submit" class="btn btn-primary">Save</button>
                </div>
            </form>
        </div>
    </div>

    <hr/>
    <h1>Task</h1>
    <h3>Test 1</h3>
    <input id="btn1" type="button" class="btn btn-primary" value="Click">

    <h3>Test 2</h3>
    <input id="textUser1" type="text" placeholder="Username">
    <input id="textAge1" type="text" placeholder="Age">
    <input id="btn2" type="button" class="btn btn-primary" value="Click">

    <h3>Test 3</h3>
    <form id="form1">
        <input name="User2" type="text" placeholder="Username">
        <input name="Age2" type="text" placeholder="Age">
        <input name="Email2" type="text" placeholder="Email">
        <input name="Mobile2" type="text" placeholder="Mobile">
        <input name="More2" type="text" placeholder="More">

    </form>
    <input id="btn3" type="button" class="btn btn-primary" value="Click">

    </div>
{% endblock %}

{% block js %}

    <script type="text/javascript">
        $(function () {
            bindBtn1Event();

            bindBtn2Event();

            bindBtn3Event();

        })

        function bindBtn1Event() {
            $("#btn1").click(function () {
                $.ajax({
                    url: '/task/ajax/',
                    type: "post",
                    data: {
                        n1: 123,
                        n2: 456
                    },
                    dataType: "JSON",
                    success: function (res) {
                        console.log(res);
                        console.log(res.status);
                        console.log(res.data);
                    }
                })
            })
        }

        function bindBtn2Event() {

```

```
$("#btn2").click(function () {
    $.ajax({
        url: '/task/ajax/',
        type: "post",
        data: {
            status: 'aaaaaaaa',
            name: $("#textUser1").val(),
            age: $("#textAge1").val()
        },
        dataType: "JSON",
        success: function (res) {
            console.log(res);
            console.log(res.status);
            console.log(res.data);
            console.log(res.name);
        }
    })
})

function bindBtn3Event() {
    $("#btn3").click(function () {
        $.ajax({
            url: '/task/ajax/',
            type: "post",
            data: $("#form1").serialize(),
            dataType: "JSON",
            success: function (res) {
                console.log(res);
                console.log(res.status);
                console.log(res.data);
                console.log(res.name);
            }
        })
    })
}

function clickMe() {
    $.ajax({
        url: '/task/ajax/',
        type: "post",
        data: {
            n1: 123,
            n2: 456
        }, success: function (res) {
            console.log(res);
        }
    })
}
</script>
{% endblock %}
```

Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

TaskTitle

Detail

Detail

Level

serious

Principal

Save

Task

Test 1

Click

Test 2

Username

Age

Click

3. ajax

add url

```
path('task/add/', views.task_add),
```

add function

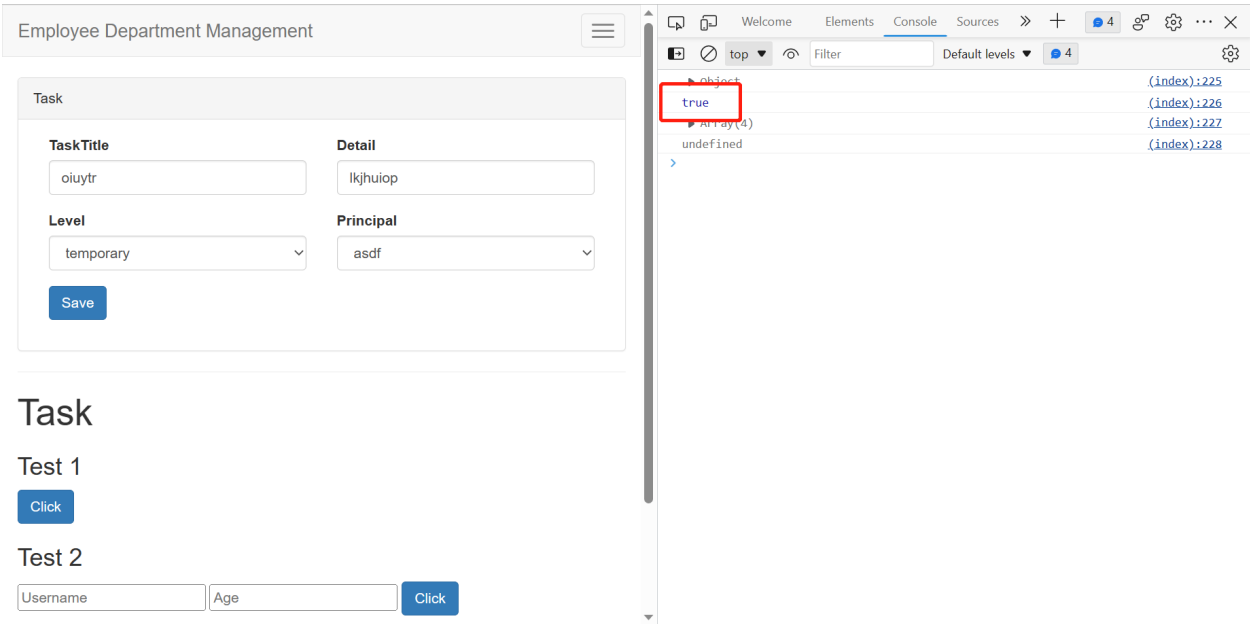
```
function bindBtnAddEvent() {
    $("#btnAdd").click(function () {
        $.ajax({
            url: '/task/add/',
            type: "post",
            data: $("#formAdd").serialize(),
            dataType: "JSON",
            success: function (res) {
                console.log(res);
                console.log(res.status);
                console.log(res.data);
                console.log(res.name);
            }
        })
    })
}
```

```
@csrf_exempt
def task_add(request):

    print(request.POST)

    data_dict = {"status": True}

    return HttpResponse(json.dumps(data_dict))
```



Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

oiuytr

Detail

lkjhuiop

Level

temporary

Principal

asdf

Save

Task

Test 1

Click

Test 2

Username

Age

Click

```
Forbidden (CSRF token missing.): /task/list/
[15/May/2023 19:44:29] "POST /task/list/ HTTP/1.1" 403 2506
<class 'int'>
[15/May/2023 19:45:02] "GET /user/list/ HTTP/1.1" 200 8556
[15/May/2023 19:45:05] "GET /task/list/ HTTP/1.1" 200 8611
<QueryDict: {'title': ['oiuytr'], 'detail': ['lkjhuiop'], 'level': ['3'], 'user': ['3']}>
[15/May/2023 19:45:22] "POST /task/ajax/ HTTP/1.1" 200 42
```

error message

```
@csrf_exempt
def task_add(request):

    print(request.POST)
    # method 1
    # Use ModelForm

    form = TaskModelForm(data=request.POST)

    if form.is_valid():
        form.save()
        data_dict = {"status": True}
        return HttpResponse(json.dumps(data_dict))

    data_dict = {"status": True, 'error': form.errors}

    return HttpResponse(json.dumps(data_dict, ensure_ascii=False))
```

Employee Department Management

Task

TaskTitle

TaskTitle

Detail

Detail

Level

serious

Principal

Save

Task

Test 1

Click

Test 2

Username

Age

Click

Welcome

Elements

Console

Sources

top

Filter

Default levels

4

{'status': true, 'error': {...}}

error:

detail: ['This field is required.']}

title: ['This field is required.']}

user: ['This field is required.']}

[[Prototype]]: Object

status: true

[[Prototype]]: Object

show error message

need to set position relative & absolute, to avoid:

Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

TaskTitle

Detail

Detail

Level

serious

Principal

Save

Task

Test 1

Click

Test 2

Username

Age

Click

Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

TaskTitle

This field is required.

Detail

Detail

This field is required.

Level

serious

Principal

This field is required.

Save

Task

Test 1

Click

Test 2

panel gets larger (size change)

```
{% extends 'layout.html' %}

{% block content %}
  <div class="container">

    <div class="panel panel-default">
      <div class="panel-heading">Task</div>
      <div class="panel-body">
        <form id="formAdd">
          <div class="clearfix">
            {% for field in form %}
              <div class="col-xs-6">
                <div class="form-group" style="position: relative">
                  <label>{{ field.label }}</label>
                  {{ field }}
                  <span style="color: red; position: absolute"></span>
                </div>
              </div>
            {% endfor %}
          </div>
          <div class="col-xs-12">
            <div class="form-group">
              <button id="btnAdd" type="button" class="btn btn-primary">Save</button>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
{% endblock %}
```

```

        </div>
      </div>
    </form>
  </div>
</div>

{% endblock %}

{% block js %}

<script type="text/javascript">
  $(function () {

    bindBtnAddEvent();

  })

  function bindBtnAddEvent() {
    $("#btnAdd").click(function () {
      $.ajax({
        url: '/task/add/',
        type: "post",
        data: $("#formAdd").serialize(),
        dataType: "JSON",
        success: function (res) {
          if(res.status){
            alert('Add Successful! ^-^')
          }else{
            $.each(res.error, function(name, data) {
              console.log(name, data);
              $("#id_"+name).next().text(data[0])
            })
          }
        }
      })
    })
  })
}

</script>
{% endblock %}
```

Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

TaskTitle

This field is required.

Level

serious

Save

Detail

Detail

This field is required.

Principal

This field is required.

Task

Test 1

Click

Test 2

Username

Age

Click

Employee Department Management

Depa

127.0.0.1:8000 says
Add Successful! ^-^

asdf

Task

TaskTitle

Task 2 Title

Detail

This is the detail of task 2. lalalalala

Level

important

Principal

asdf

Save

Task

Test 1

Click

Test 2

Username

Age

Click

```
MySQL 8.0 Command Line Client
mysql> SELECT * FROM django_ex_user_manage.app01_task;
Empty set (0.00 sec)

mysql> SELECT * FROM django_ex_user_manage.app01_task;
Empty set (0.00 sec)

mysql> SELECT * FROM django_ex_user_manage.app01_task;
Empty set (0.00 sec)

mysql> SELECT * FROM django_ex_user_manage.app01_task;
Empty set (0.01 sec)

mysql> SELECT * FROM django_ex_user_manage.app01_task;
+-----+-----+-----+-----+-----+
| id | title | detail | user_id | level |
+-----+-----+-----+-----+-----+
| 1 | Task 1 Title | This is the detail of task 1 | 3 | 3 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM django_ex_user_manage.app01_task;
+-----+-----+-----+-----+-----+
| id | title | detail | user_id | level |
+-----+-----+-----+-----+-----+
| 1 | Task 1 Title | This is the detail of task 1 | 3 | 3 |
| 2 | Task 2 Title | This is the detail of task 2. lalalalala | 3 | 2 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

add task list

When add, task list only shown new data after refresh.

Employee Department Management

Depa

127.0.0.1:8000 says
Add Successful! ^-^

asdf

Task

TaskTitle

Task 3

Detail

This is task 3.

Level

serious

Principal

Jasmine

Save

Task List

ID	Title	Detail	Responsible	Level	Operation
1	Task 1 Title	This is the detail of task 1	asdf	temporary	<div>EditDelete</div>
2	Task 2 Title	This is the detail of task 2. lalalalala	asdf	important	<div>EditDelete</div>

Task

Employee Department Management

Department Management

User Management

Admin Account

asdf

Task

TaskTitle

TaskTitle

Detail

Detail

Level

serious

Principal

.....

Save

Task List

Screenshot(Alt + A)

ID	Title	Detail	Responsible	Level	Operation
1	Task 1 Title	This is the detail of task 1	asdf	temporary	<div>Edit</div> <div>Delete</div>
2	Task 2 Title	This is the detail of task 2. lalalalala	asdf	important	<div>Edit</div> <div>Delete</div>
3	Task 3	This is task 3.	Jasmine	serious	<div>Edit</div> <div>Delete</div>

refresh

```
function bindBtnAddEvent() {
    $("#btnAdd").click(function () {
        $(".error-message").empty()

        $.ajax({
            url: '/task/add/',
            type: "post",
            data: $("#formAdd").serialize(),
            dataType: "JSON",
            success: function (res) {
                if (res.status) {
                    alert('Add Successful! ^-^');
                    // add reload
                    location.reload();
                } else {
                    $.each(res.error, function (name, data) {
                        console.log(name, data);
                        $("#id_" + name).next().text(data[0])
                    })
                }
            }
        })
    })
}
```

add page

```
def task_list(request):
    queryset = models.Task.objects.all().order_by('id')

    form = TaskModelForm()
    page_object = Pagination(request, queryset, page_size=2)

    context = {
        "form": form,
        "queryset": page_object.page_queryset,
        "page_string": page_object.html()
    }

    return render(request, 'task_list.html', context)
```

```
<nav aria-label="Page navigation">
  <ul class="pagination">
    {{ page_string }}
  </ul>
</nav>
```

```
</ul>  
</nav>
```