ajax intro

rely on jQuery

1. add urls

```
path('task/list/', views.task_list),
path('task/ajax/', views.task_ajax),
```

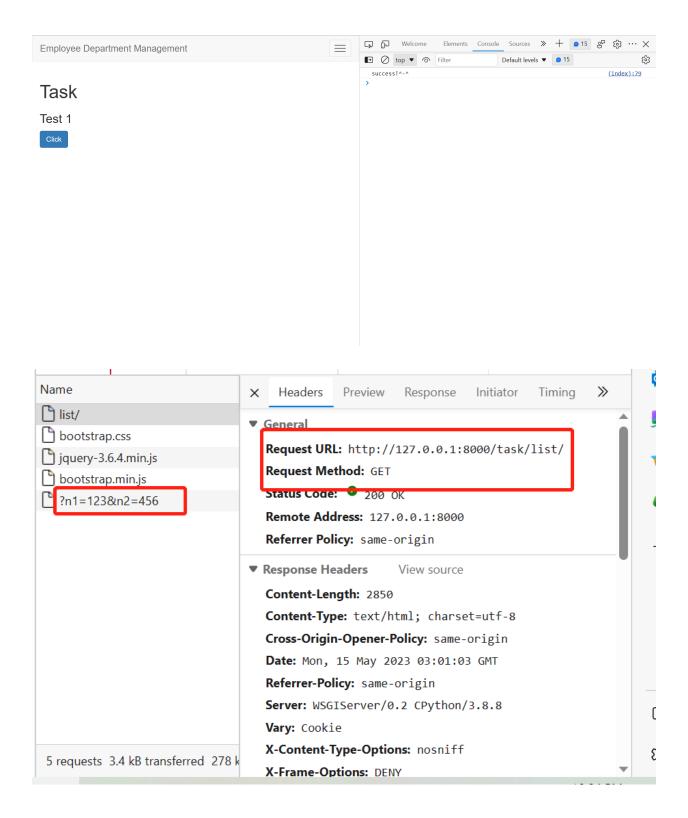
2. add function

```
def task_list(request):
    return render(request, 'task_list.html')

def task_ajax(request):
    return HttpResponse('success!^-^')
```

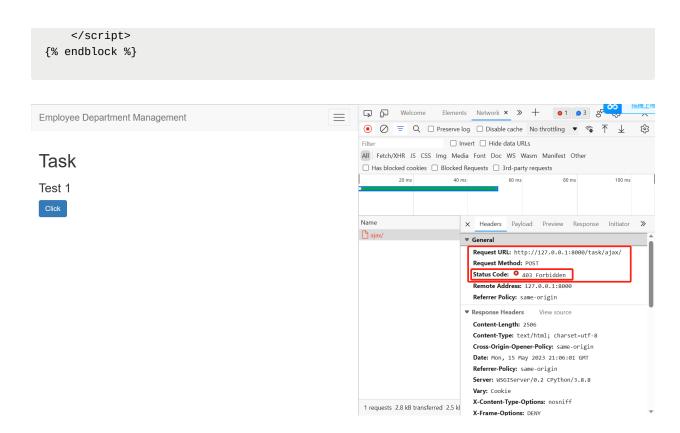
3. send GET request

```
{% extends 'layout.html' %}
{% block content %}
   <div class="container">
       <h1>Task</h1>
       <h3>Test 1</h3>
       <input type="button" class="btn btn-primary" value="Click" onclick="clickMe()">
   </div>
{% endblock %}
{% block js %}
   <script type="text/javascript">
       function clickMe() {
           $.ajax({
               url:'/task/ajax/',
               type: "get",
                data: {
                   n1: 123,
                   n2: 456
               }, success: function (res) {
                   console.log(res)
           })
   </script>
{% endblock %}
```

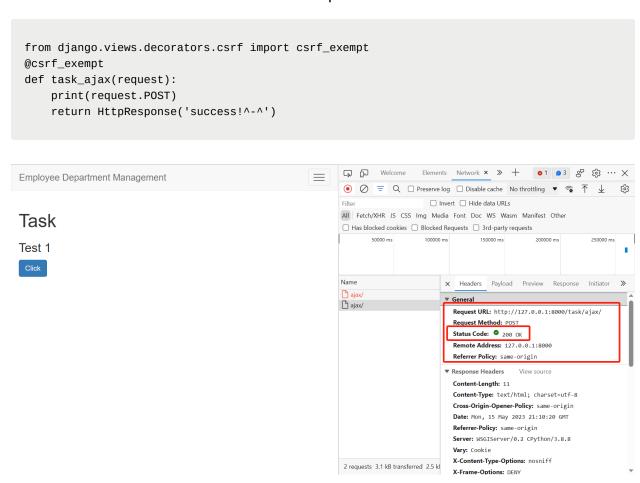


4. send POST request

if simply change request type



Please do remember csrf token for POST request we used in form before.



5. use id

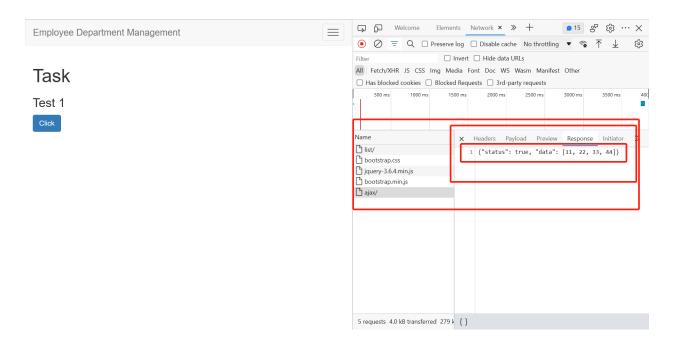
```
{% extends 'layout.html' %}
{% block content %}
    <div class="container">
        <h1>Task</h1>
        <h3>Test 1</h3>
       <input id="btn1" type="button" class="btn btn-primary" value="Click">
    </div>
{% endblock %}
{% block js %}
    <script type="text/javascript">
       $(function () {
            bindBtn1Event();
       })
        function bindBtn1Event() {
            $("#btn1").click(function () {
                $.ajax({
                    url: '/task/ajax/',
                    type: "post",
                    data: {
                        n1: 123,
                        n2: 456
                    }, success: function (res) {
                        console.log(res)
               })
            })
       }
        function clickMe() {
            $.ajax({
                url: '/task/ajax/',
                type: "post",
                data: {
                    n1: 123,
                    n2: 456
                }, success: function (res) {
                    console.log(res)
           })
```

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

6. ajax return value

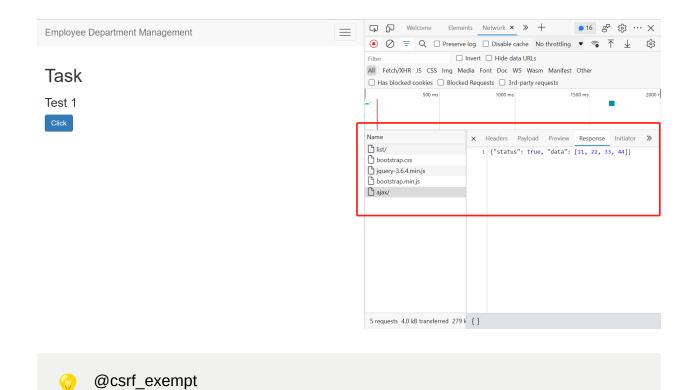
return in JSON

```
from django.views.decorators.csrf import csrf_exempt
@csrf_exempt
def task_ajax(request):
    print(request.POST)
    data_dict = {"status": True, "data": [11, 22, 33, 44]}
    json_string = json.dumps(data_dict)
    return HttpResponse(json_string)
```



Also Django has function JosnResponse

```
# POST
from django.views.decorators.csrf import csrf_exempt
from django.http import JsonResponse
@csrf_exempt
def task_ajax(request):
    print(request.POST)
    data_dict = {"status": True, "data": [11, 22, 33, 44]}
    # json_string = json.dumps(data_dict)
    # return HttpResponse(json_string)
    return JsonResponse(data_dict)
```



do not need {% csrf token %} in html

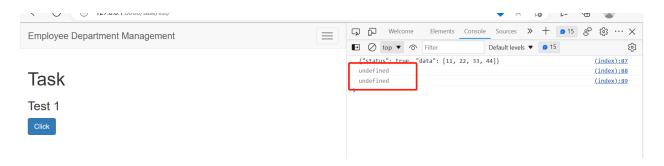
```
# POST
from django.views.decorators.csrf import csrf_exempt
import json
# from django.http import JsonResponse
@csrf_exempt
def task_ajax(request):
    print(request.POST)
    data_dict = {"status": True, "data": [11, 22, 33, 44]}

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

```
{% extends 'layout.html' %}
{% block content %}
    <div class="container">
        <h1>Task</h1>
        <h3>Test 1</h3>
        <input id="btn1" type="button" class="btn btn-primary" value="Click">
   </div>
{% endblock %}
{% block js %}
    <script type="text/javascript">
       $(function () {
            bindBtn1Event();
       })
        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 clickMe() {
           $.ajax({
               url: '/task/ajax/',
                type: "post",
                data: {
                   n1: 123,
                   n2: 456
               }, success: function (res) {
                   console.log(res);
           })
       }
   </script>
{% endblock %}
```

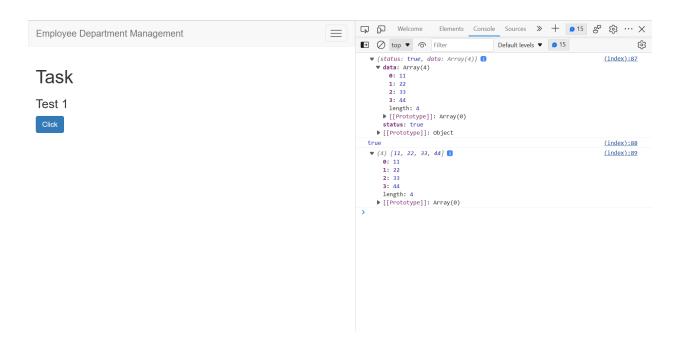
If we have undefine (cannot get value through dot)



This might because:

```
🖺 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode <u>R</u>efactor R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>inc Django_user_mana,
👗 views.py 🗡
                       $.ajax({
                          success: function (res) {
                              console.log(res);
                              console.log(res.status);
                              console.log(res.data);
                   })
 script > clickMe()
                                                                     $ -
      Jango_user_manage ×
     Τ
        [15/May/2023 17:08:55] "POST /task/ajax/ HTTP/1.1" 200 42
     =
        <QueryDict: {'n1': ['123'], 'n2': ['456']}>
               ▶ Run 📚 Python Packages 🗏 TODO 🥏 Python Console
                                                       Problems
```

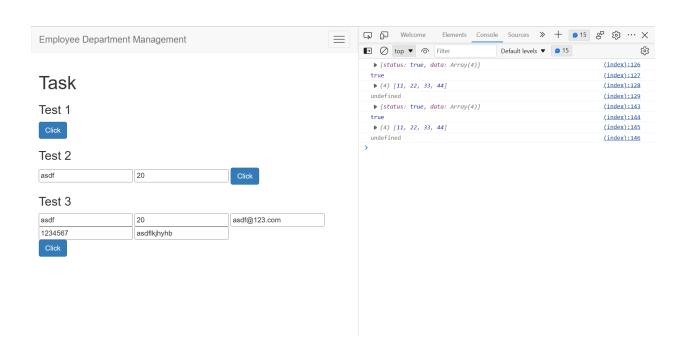
Please be attention to capital letter dataType



7. POST input by ajax

```
{% extends 'layout.html' %}
{% block content %}
    <div class="container">
        <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">
        <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: 'aaaaaaaaa',
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 %}
```



<u>ajax example</u>

ajax in js

<u>chart</u>

File upload