

# Syntaxe fetch

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## 1. Get data fetch

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recuperez les enregistrements todo pour un utilisateur donnée

```
var url = `/pro/api/vtodo/${this.user_id}.json/`
console.log("url= " + url )

fetch(url)
  .then(response => response.json())
  .then(data => this.todos = data )
  .catch(error => { console.log(error)})
  ///
  console.log("mounted! " + this.todos.length)
},
```

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## 2. Post data fetch

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recuperez les enregistrements todo pour un utilisateur donnée

```
save_todo(){
  // someting
  let url = `/pro/api/vtodo/create/`
  // chercher la cle de securité
  let CLE_CSRF = $("input[name='csrfmiddlewaretoken']" ).attr('value')
  CLE_CSRF = CLE_CSRF.trim(),

  var data_todo = {
    //'csrfmiddlewaretoken' : CLE_CSRF,
    'author' : this.user_id,
    'title' : this.newTodo.trim(),
    //"X-CSRF-Token": "Fetch",
  }
  //console.log("CLE_CSRF = " + data_todo.csrfmiddlewaretoken);

  fetch(url, {
    method: "POST",
    credentials: "same-origin",
    headers : {
      //"X-CSRFToken": getCookie("csrftoken"),
      "X-CSRFToken": CLE_CSRF,
      "Accept": "application/json",
      "Content-Type": "application/json"
    },
    body: JSON.stringify(data_todo)
  })
  .then(response => response.json())
  .then(function(data) {
    this.message = "Votre todo est bien pris en compte ! "
    console.log("Data is ok", data);
    // refresh
  }).catch(function(ex) {
    console.log("parsing failed", ex);
  })
  ///
  console.log("add ok " + url)
}
```

## 3. data DELETE

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```
//-----
```

```

// delete todo
removeTodo(todo) {
  // rayer le todo
  this.todos.splice(this.todos.indexOf(todo), 1)
  // delete en vrai de la base
  var url = `/pro/api/vtodo/delete/${todo.id}`
  console.log("url= " + url )

  fetch(url,
    {
      method: 'delete',
      credentials: "same-origin",
      headers : {
        "X-CSRFToken": getCookie("csrftoken"),
      }
    })
  .then(response => response.json())
  .then(data => this.todos = data )
  .catch(error => { console.log(error)})
  ///
},

```

## 4. PUT Update todo

```

//-----
// update todo
updateTodo(todo) {
  // rayer le todo
  this.todos.splice(this.todos.indexOf(todo), 1)
  // delete en vrai de la base
  var url = `/pro/api/vtodo/update/${todo.id}`
  console.log("url= " + url )

  fetch(url,
    {
      method: 'put',
      credentials: "same-origin",
      headers : {
        "X-CSRFToken": getCookie("csrftoken"),
      }
    })
  .then(response => response.json())
  .then(data => this.todos = data )
  .catch(error => { console.log(error)})
  ///
},

```

# Côté serveur

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## 1. class serializer :

```
class TodoTodaySerializer(serializers.ModelSerializer):  
    """  
    ( 'id', 'title', 'author_id', )  
    """  
    # author = serializers.StringRelatedField(many=False, read_only=True)  
  
    def create(self, validated_data):  
        return Vtodo.objects.create(**validated_data)  
  
    class Meta :  
        model = Vtodo  
        fields = '__all__'
```

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## 2. class API VIEW

```
@method_decorator(login_required, 'dispatch')
### @api_view(['GET', 'PUT', 'DELETE' ])
class TodoTodayList(APIView):
    """
    List all todo
    Retrieve, update or delete a snippet instance.
    curl -X DELETE "http://127.0.0.1:8000/api/vtodo/(?P<pk>[-\d]+)/delete/"
    """

    def get(self, request, user_id, format=None):
        todos = Vtodo.objects.filter(author__id=user_id).all().order_by( '-id' )
        serializer = TodoTodaySerializer(todos, many=True)
        return Response(serializer.data)

    def post(self, request, format=None):
        # serializer
        serializer = TodoTodaySerializer(data = request.data)

        if serializer.is_valid():
            serializer.save()
            return Response(serializer.data, status=status.HTTP_201_CREATED)
        # error !!
        messages.add_message(request, messages.INFO, "error api TodoTodayList {}".format(se

        return Response(serializer.errors, status=status.HTTP_400_BAD_REQUEST)

    def put(self, request, pk, format=None):
        todo = self.get_object(pk)
        serializer = TodoTodaySerializer(todo, data=request.data)
        if serializer.is_valid():
            serializer.save()
            return Response(serializer.data)
        return Response(serializer.errors, status=status.HTTP_400_BAD_REQUEST)

    def delete(self, request, pk, format=None):
        messages.add_message(request, messages.INFO, "error api todo delete {}".format(pk))
        # todo = self.get_object(pk)
        todo = Vtodo.objects.get(pk=pk)
        todo.delete()
        return Response(status=status.HTTP_204_NO_CONTENT)
```