# AMPLIANDO LA DOCUMENTACIÓN DE APIS CON DRF-SWAGGER-CUSTOMIZATION

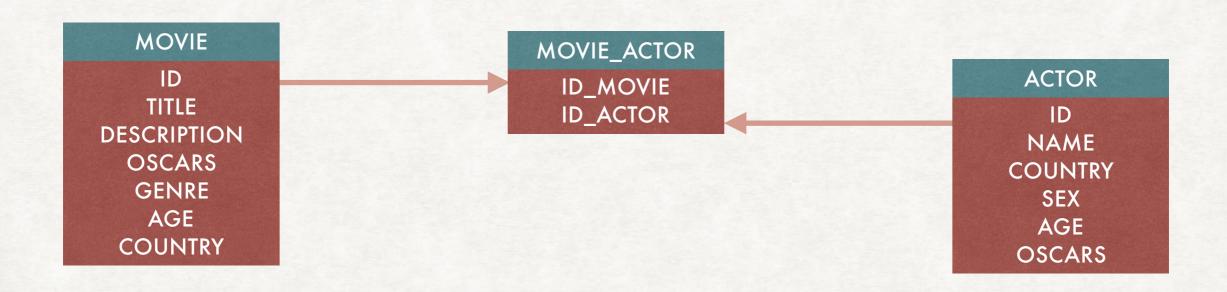




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- 1. Definición de objetos y array de elementos
- 2. Ampliar información de campos y endpoints
- 3. Añadir Parámetros de filtrado a endpoints
- 4. Integración de documentación externa

1. Definición de objetos y array de elementos

```
{
  "title": "string",
  "description": "string",
  "genre": "string",
  "year": 0,
  "oscars": 0,
  "cast": [
      "string"
  ]
}
```

```
"cast": {
    "description": "",
    "type": "array",
    "items": {
        "type": "string"
    }
}
```

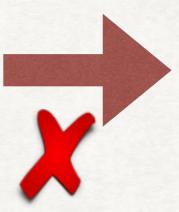
2. Ampliar información de campos y endpoints

```
inline_model_2 {
 title (string):,
 description (string):,
 genre (string):,
 year (integer):,
 oscars (integer):,
 cast (Array[Inline Model 1]):
Inline Model 1 {
 id (integer, optional):,
 name (string, optional):,
 oscars (integer, optional):
```

```
"genre": {
  "description": "",
  "type": "string"
}
H
M
Choices
```

3. Añadir Parámetros de filtrado a endpoints

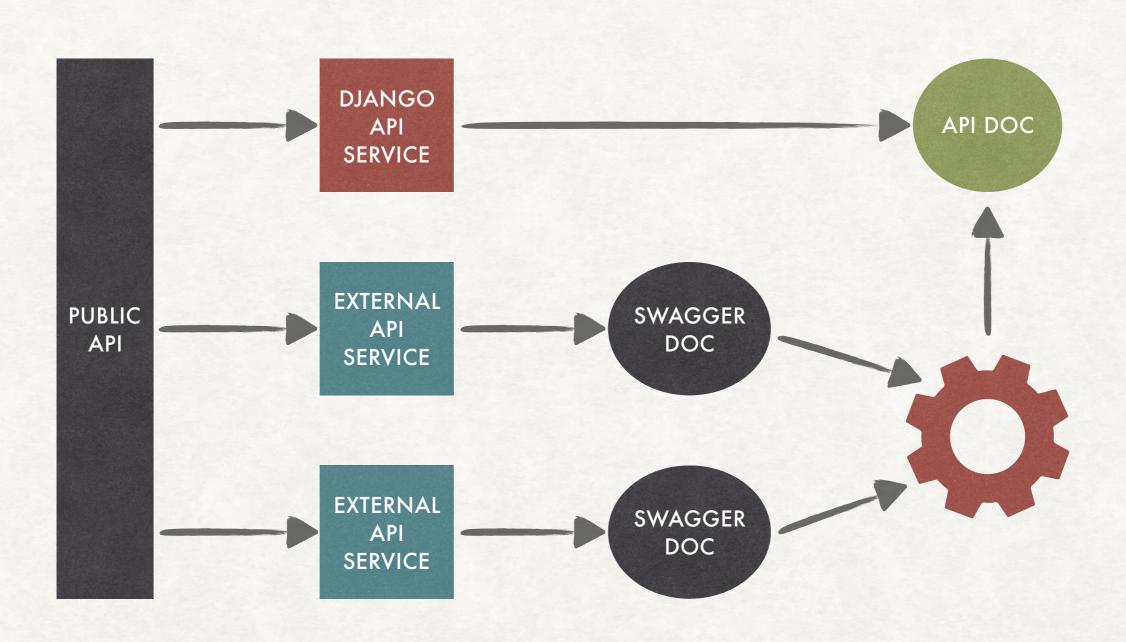
GET /movies/?year=1978





```
HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
       "id": 1,
        "title": "Grease",
        "description": "A nice musical",
        "genre": "Musical",
        "year": 1978,
        "oscars": 5,
        "cast": [
               "id": 1,
               "name": "John Travolta",
               "genre": "H",
               "age": 60,
                "oscars": 2
```

4. Integración de documentación externa





#### @settings.py

#### @urls.py

```
from drf_swagger_customization.views import get_swagger_view
schema_view = get_swagger_view(title='Pastebin API')
urlpatterns = [
    introduces/$', schema_view),
    introduces/$', schema_view),
]
```

drf-swagger-customization@views.py

```
def get_swagger_view(title=None, url=None, patterns=None, urlconf=None):
   Returns schema view which renders Swagger/OpenAPI.
   class SwaggerSchemaView(APIView):
        ignore model permissions = True
        exclude from schema = True
       permission_classes = [AllowAny]
        renderer_classes = [
           CoreJSONRenderer.
                                         # coreison;
           CustomOpenAPIRenderer,
                                         # renderers.OpenAPIRenderer
                                         # coreapi -> swagger -> swagger ampliado
           renderers.SwaggerUIRenderer # renderers.OpenAPIRenderer; swagger html
       def get(self, request):
           generator = SchemaGenerator(
                title=title,
                url=url,
                patterns=patterns,
                urlconf=urlconf
           schema = generator.get_schema(request=request)
           if not schema:
                raise exceptions.ValidationError(
                    'The schema generator did not return a schema Document'
           return Response(schema)
   return SwaggerSchemaView.as_view()
```

#### drf-swagger-customization@renderers.py

```
class CustomOpenAPIRenderer(OpenAPIRenderer):

    def render(self, data, accepted_media_type=None, renderer_context=None):
        if renderer_context['response'].status_code != status.HTTP_200_0K:
            return JSONRenderer().render(data)
        extra = self.get_customizations()
        swagger_doc = json.loads(OpenAPICodec().encode(data, extra=extra))
        result = append_schemas(swagger_doc)  # Append more information to documentation
        return result
```

EXTENSION\_PATH

CREATE

**UPDATE** 

**DELETE** 

RENAME

#### CREATE

```
"action": "create",
"operation": {
                                                                                 UPDATE
    "paths|<endpoint>|<method>|parameters": [
          "name": "Field1",
                                   "action": "update",
          "in": "query",
                                   "operation": {
          "required": true,
                                       "paths|<endpoint>|<method>|parameters|name=Field1": [
          "type": "string"
                                             "name": "Field1",
                                             "in": "query",
                                             "type": "string"
  DELETE
"action": "delete",
"operation": "paths|<endpoint>|<method>|parameters|name=<FieldName>"
                                                                               RENAME
      "action": "rename",
      "operation": {
          "paths|<endpoint>|<method>|parameters|schema|properties|<Field>": "NewFieldKey"
```



1. Definición de objetos y array de elementos

```
"action": "update",
"operation": {
    "paths|/movies/|post|parameters|name=data|schema|properties|cast|items": {
         "type": "object",
         "properties": {
             "name": {
                 "description": "",
"type": "string"
            },
"age": {
                                                                   "title": "string",
                 "description": "",
"type": "integer"
                                                                   "description": "string",
            "genre": "string",
                                                                   "year": 0,
                  "description": "",
                 "type": "string"
                                                                   "oscars": 0,
                                                                    "cast": [
             "oscars": {
                 "description": "",
"type": "integer"
                                                                        "name": "string",
                                                                        "age": 0,
                                                                        "country": "string",
                                                                        "oscars": 0
```

2. Ampliar información de campos y endpoints

```
{
    "action": "update",
    "operation": {
        "paths|/movies/|post|parameters|name=data|schema|properties|genre": {
            "description": "Género del actor/actriz.",
            "type": "string",
            "enum": ["H", "M"]
        }
    }
}
```

```
inline_model_2 {
    title (string): ,
    description (string): ,
    genre (string): Género del actor/actriz. =
    ['H', 'M'],
    year (integer): ,
    oscars (integer): ,
    cast (Array[Inline Model 1]):
}
Inline Model 1 {
    id (integer, optional): ,
        name (string, optional): ,
        oscars (integer, optional):
}
```



3. Añadir Parámetros de filtrado a endpoints

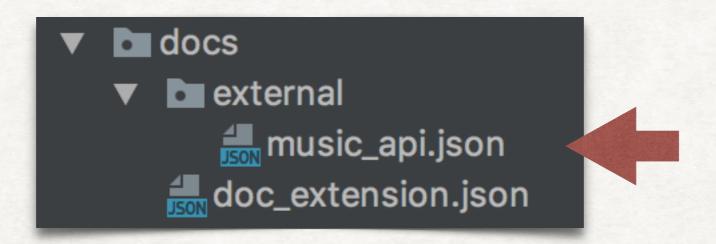
```
"action": "create",
                      "operation": {
                             "paths|/movies/|get|parameters": [
                                         "name": "year",
                                         "in": "query",
                                         "type": "integer",
"description": "Filter by year"
                                                                                                                            HTTP 200 OK
                                                                                                                            Allow: GET, POST, HEAD, OPTIONS
                                                                                                                            Content-Type: application/json
                                                                                                                            Vary: Accept
                                                                                                                                   "id": 1,
                                                                                                                                   "title": "Grease",
                                                                                                                                   "description": "A nice musical",
                         GET /movies/?year=1978
                                                                                                                                   "genre": "Musical",
                                                                                                                                   "year": 1978,
                                                                                                                                   "oscars": 5,
                                                                                                                                   "cast": [
                                                                                                                                         "id": 1,
                                                                                                                                          "name": "John Travolta",
Implementation Notes
                                                                                                                                          "genre": "H",
                                                                                                                                          "age": 60,
A simple ViewSet for viewing and editing accounts.
                                                                                                                                          "oscars": 2
           Value
                                           Description
                                                               Parameter Type Data Type
                                           Filter by year
Response Messages
HTTP Status Code Reason
                              Response Model
                                                                              Headers
```

Parameters Parameter

year

200 Try it out!

4. Integración de documentación externa



actors	Show/Hide   List Operations   Expand Operations
movies	Show/Hide   List Operations   Expand Operations
singers	Show/Hide List Operations Expand Operations
songs	Show/Hide   List Operations   Expand Operations

## PREGUNTAS Y SUGERENCIAS

