

AMPLIANDO LA DOCUMENTACIÓN DE APIS CON DRF-SWAGGER-CUSTOMIZATION

Andrés Rojano Ruiz

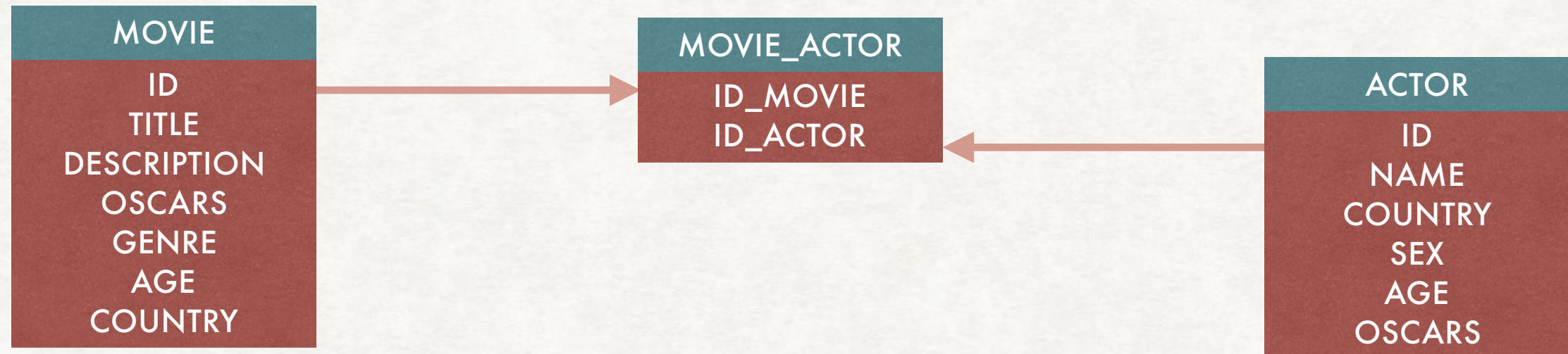
Analista Programador



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

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1. Definición de objetos y array de elementos

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

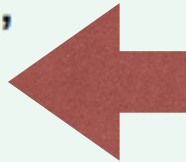


```
"cast": {  
  "description": "",  
  "type": "array",  
  "items": {  
    "type": "string"  
  }  
}
```


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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"  
}
```



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Choices

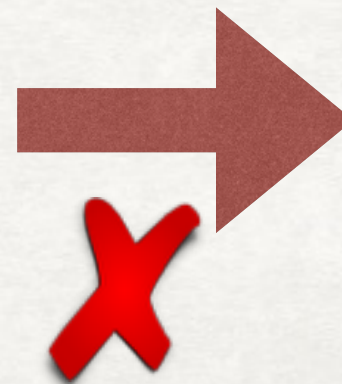
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3. Añadir Parámetros de filtrado a endpoints



```
"/movies/": {  
  "get": {  
    "operationId": "list",  
    "responses": {  
      "200": {  
        "description": ""  
      }  
    },  
    "parameters": [],  
    "description": "A simple ViewSet for viewing and editing accounts.",  
    "summary": "A simple ViewSet for viewing and editing accounts.",  
    "tags": [  
      "movies"  
    ]  
  },  
  ...  
}
```

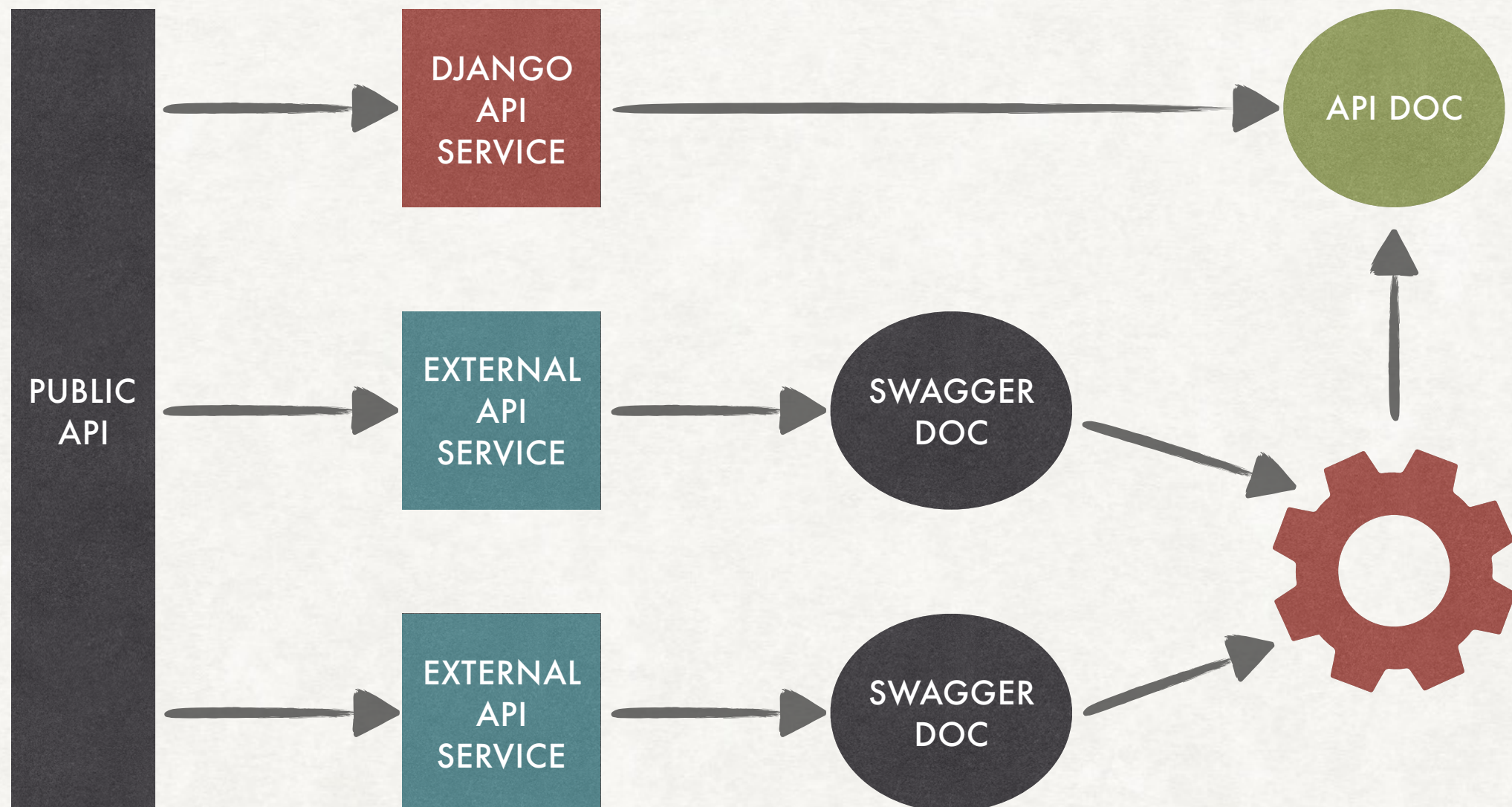
GET /movies/?year=1978



```
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  
      }  
    ]  
  }  
]
```


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4. Integración de documentación externa



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@settings.py

```
# Django Swagger Customization
# _____

# Path to your extension file
EXTENSION_PATH = os.path.join(BASE_DIR, 'docs/doc_extension.json')
# Path to your external documentation folder
EXTERNAL_DOC_FOLDER = os.path.join(BASE_DIR, 'docs/external/')
```

@urls.py

```
from drf_swagger_customization.views import get_swagger_view

schema_view = get_swagger_view(title='Pastebin API')

urlpatterns = [
    . . .
    url(r'^docs/$', schema_view),
    . . .
]
```

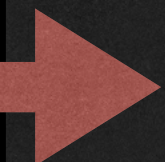
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drf-swagger-customization@views.py

```
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, # corejson ;  
            CustomOpenAPIRenderer, # renderers.OpenAPIRenderer  
            renderers.SwaggerUIRenderer # coreapi -> swagger -> swagger ampliado  
                                     # 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()
```


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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_OK:  
            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
```

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EXTENSION_PATH

CREATE

UPDATE

DELETE

RENAME

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CREATE

```
{
  "action": "create",
  "operation": {
    "paths|<endpoint>|<method>|parameters": [
      {
        "name": "Field1",
        "in": "query",
        "required": true,
        "type": "string"
      }
    ]
  }
}
```

UPDATE

```
{
  "action": "update",
  "operation": {
    "paths|<endpoint>|<method>|parameters|name=Field1": [
      {
        "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"
  }
}
```


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1. Definición de objetos y array de elementos

```
{
  "action": "update",
  "operation": {
    "paths|/movies/|post|parameters|name=data|schema|properties|cast|items": {
      "type": "object",
      "properties": {
        "id": {
          "description": "",
          "type": "integer"
        },
        "name": {
          "description": "",
          "type": "string"
        },
        "oscar": {
          "description": "",
          "type": "integer"
        }
      }
    }
  }
}
```

```
{
  "title": "string",
  "description": "string",
  "genre": "H",
  "year": 0,
  "oscar": 0,
  "cast": [
    {
      "id": 0,
      "name": "string",
      "oscar": 0
    }
  ]
}
```

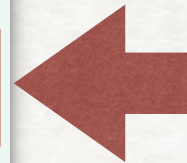
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2. Ampliar información de campos y endpoints

```
{
  "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):
}
```



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Choices

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3. Añadir Parámetros de filtrado a endpoints

```
{
  "action": "create",
  "operation": {
    "paths|/movies/|get|parameters": [
      {
        "name": "year",
        "in": "query",
        "type": "integer",
        "description": "Filter by year"
      }
    ]
  }
}
```

GET /movies/?year=1978



HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

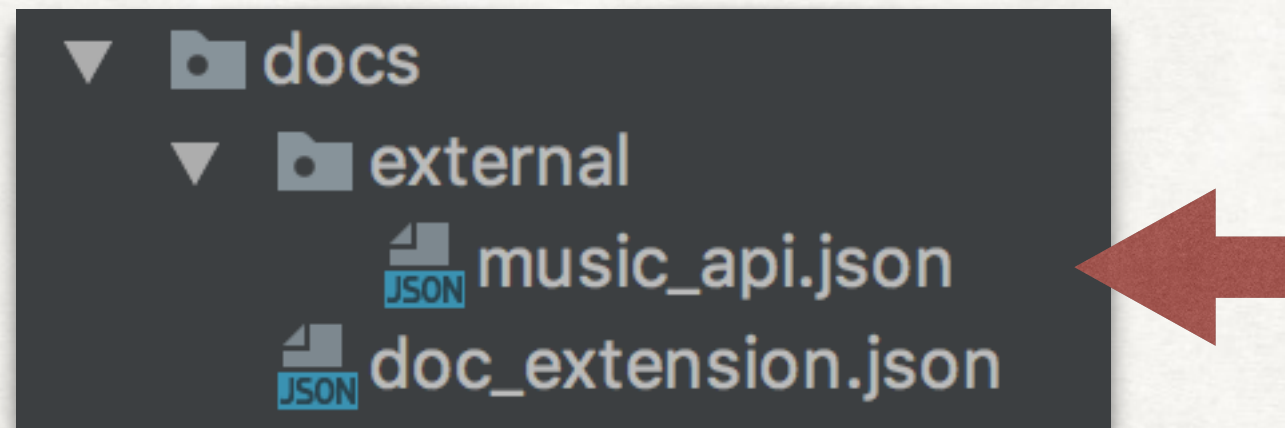
```
[
  {
    "id": 1,
    "title": "Grease",
    "description": "A nice musical",
    "genre": "Musical",
    "year": 1978,
    "oscar": 5,
    "cast": [
      {
        "id": 1,
        "name": "John Travolta",
        "genre": "H",
        "age": 60,
        "oscar": 2
      }
    ]
  }
]
```

Parameters

Parameter	Value	Description	Parameter Type	Data Type
year	<input type="text"/>	Filter by year	query	integer

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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

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PREGUNTAS Y SUGERENCIAS

