

API GraphQL Cheat Sheet

by Demetrio via cheatography.com/175545/cs/36839/

Mutations: OnChangeResponse

```
" id": " Que ry",
" dat a": {
        " gen era lQu ery Nam e": [... UPDATED DATA ...], // For queries without pagina tio n/f ilters
        " -an oth erQ uer yNa me/"/: Foodlqueries with pagination and/or filter
}
```

- QueryName there is top level properties on your Query type.
- You should list all top level QueryNames that may be affected (data could be changed) after applying mutation

Entity / ID's

id: ID!	Main Entity id
userId: ID!	Foreign Entity id
deletedByAdminId: ID	Foreign Entity id with modifier
deletedByAdminName: String	Foreign Entity field with modifier

- deletedBy is modifier/action
- Admin is Foreign Type/Entity name
- Id/Name is Foreign Entity field

Filters: Date / Time

```
startTime: DateTime
endTime: DateTime
startDate: Date
endDate: Date
createdTimeFrom: DateTime
createdTimeTo: DateTime
```

Know how to deprecate

```
type MyType {
  id: ID!
   old Field: String @depre cat ed( reason: " -
old Field is deprec ated. Use newField instea d.")
   new Field: String
   ano the rField: String @depre cated
}
```

For example userId in the User Type could be deprecated, because there is id have been added

https://spec.graphql.org/June2018/#sec--deprecated

Non Nullable

Ensure that all fields that always should have a value is marked as Non Nullable (!) in response

For example Nullable Boolean have a three state which makes a confusion.

Only really optional fields, may be Nullable

Group Fields

```
type GeoPoint {
    lat: Float!
    lon: Float!
}

type Address {
    street: String
    city: String
    cou ntry: String!
    geo: GeoPoint
}

type User {
    add ress: Address
}
```

Do not shy to group related fields.

That simplify reading/understanding of API, reusing the same Fragments, and write common utilities to work with that



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Filters: Nullability

isActive: Boolean

startTime: DateTime

siteId: ID! Required filter field is Not Nullable

No Nullable Entities inside array limitNames: [LimitName!]

- Fields is **Nullable**, because null means that we *opt-out* filter
- Empty array is also means that we opt-out filter

Pagination	
totalPages: NonNegativeInt!	0 – ∞
totalElements: NonNegativeInt!	$0 - \infty$
<pre>page: PositiveInt!</pre>	1 − ∞
size: PositiveInt!	1 − ∞
isFirst: Boolean!	
isLast: Boolean!	
<pre>content: [SomeEntity!]!</pre>	If there is no entities - Empty Array is pretty good!

Translations

period: " P1Y "

period Name: "One Year"

type: TypeEnum

typeName: " Tem por -

Translation for period values

"TEMPORATY" | "PERMANENT"

Tranlation for TypeEnum values

aty "

Boolean Fields

isActive: Boolean!

addressType: Int!

isDeleted: Boolean!

hasContent: Boolean!

- Always start boolean fields with is / has prefix. (That's just a good practice)
- Do not forget that Nullable Boolean have a three state: true, false and "I'm not sure", don't do that!

Use specific Scalar types	
Bad	Good
country: String!	country: Country!
<pre>pageContent: String!</pre>	pageContent: HTML!
currency: String!	currency: Currency!
metadata: String!	metadata: JSON!
value: String!	value: Duration!

- That allow you to implement validation for corresponding type once, and reuse it everywhere.
- For FE that also allows to validate the types, and improving readability and understanding of API



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addressType: AddressTypeEnum!