

Mutations: OnChangeResponse

```
{
  " id": " Que ry",
  " dat a": {
    " gen era lQu ery Nam e": [... UPDATED DATA ...], // For queries without pagina tio n/f filters
    " -an oth erQ uer yNa me": For all queries 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

Filters: Nullability

isActive: **Boolean**

startTime: **DateTime**

siteId: **ID!** Required filter field is **Not Nullable**

limitNames: [**LimitName!**] No Nullable Entities inside array

- 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 – ∞

page: **PositiveInt!** 1 – ∞

size: **PositiveInt!** 1 – ∞

isFirst: **Boolean!**

isLast: **Boolean!**

content: [**SomeEntity!**]! If there is no entities -
Empty Array is pretty
good!

Translations

period: " PLY "

period Name: "One Year" Translation for period values

type: **TypeEnum** "TEMPORATY" | "PERMANENT"

typeName: " Tem por aty Tranlation for **TypeEnum** values
"

Boolean Fields

isActive: **Boolean!**

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

country: **String!**

pageContent: **String!**

currency: **String!**

metadata: **String!**

value: **String!**

addressType: **Int!**

Good

country: **Country!**

pageContent: **HTML!**

currency: **Currency!**

metadata: **JSON!**

value: **Duration!**

addressType: **AddressTypeEnum!**

- 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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