# Exploring the GraphQL Schema with Introspection



ADHITHI RAVICHANDRAN SOFTWARE CONSULTANT, AUTHOR, SPEAKER

@AdhithiRavi www.adhithiravichandran.com

#### Module Overview



#### What is Introspection in GraphQL?

#### Learn introspection in GraphQL to:

- Retrieve a GraphQL schema's types
- Learn what queries and mutations an API supports
- Query property types
- Retrieve deprecated fields
- Query directives
- Introspection with Apollo client



#### Introspection



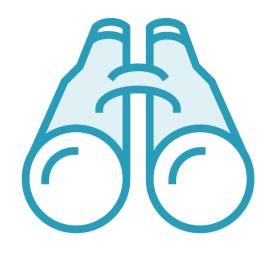


### Introspection

GraphQL provides a way for clients to discover the resources that are available in the GraphQL API schema via introspection.



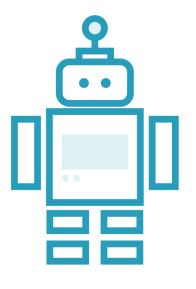
#### Why Introspection is Useful?



Provides clients a view of the available resources in the schema



Ability to build awesome tools (GraphiQL, GraphQL Playground)



Self documentation, autocomplete, code generation, etc..



## Introspect Globomantics schema





#### Retrieve a Schema's Types



```
query getSchemaTypes {
  schema {
 types{
  name
  kind
  description
```



#### What Queries does the API support?



```
query retrieveQueryTypes {
  schema {
 queryType {
  fields {
   name
   description
```

#### Query Property Types



```
query sessionType {
__type(name: "Session") {
 fields {
  name
  description
```



Retrieve deprecated fields



### Query Deprecated Fields



```
query sessionType {
__type(name: "Session") {
 fields(includeDeprecated : true) {
  name
  description
  isDeprecated
  deprecationReason
```



#### Query Directives



#### Apollo Codegen to Introspect Schema



npm install apollo-codegen

apollo-codegen introspect-schema <a href="http://localhost:4000/graphql">http://localhost:4000/graphql</a> --output schema.json

#### Apollo codegen to introspect schema

Create a JSON introspection dump file for a given graphql schema

Input schema can be fetched from a remote graphql server or from a local file.



# We are now ready to start consuming the GraphQL API from our client!

