

Serving over HTTP

- <https://graphql.org/learn/serving-over-http/>

HTTP . GraphQL HTTP GraphQL - 가 1)

Web Request Pipeline

. GraphQL (/) HTTP , , 2)

URIs, Routes

HTTP “ ” REST GraphQL URL , GraphQL GraphQL URL/ (/graphql) 3)

HTTP Methods, Headers, and Body

GraphQL HTTP HTTP GET POST 4)

GET request

HTTP GET “query” GraphQL 5)

```
{
  me {
    name
  }
}
```

HTTP GET 6)

```
http://myapi/graphql?query={me{name}}
```

가 JSON
operationName

7)

POST request

GraphQL POST application/json JSON

8)

```
{
  "query": "...",
  "operationName": "...",
  "variables": { "myVariable": "someValue", ... }
}
```

operationName . operationName

9)

가 가

10)

- “query” 가 (GET) HTTP GET
- “application/graphql” Content-Type 가 HTTP POST GraphQL

12)

[express-graphql](#)

13)

Response

JSON , JSON

14)

```
{
  "data": { ... },
  "errors": [ ... ]
}
```

가 “ ” 가 . 가 GraphQL

15)

GraphiQL

GraphiQL

express-graphql

NODE_ENV

16)

```
app.use('/graphql', graphqlHTTP({
  schema: MySessionAwareGraphQLSchema,
  graphiql: process.env.NODE_ENV === 'development',
}));
```

Node

NodeJS

17)

Continue Reading

- [Authorization](#)

Plugin Backlinks:

1)

HTTP is the most common choice for client-server protocol when using GraphQL because of its ubiquity. Here are some guidelines for setting up a GraphQL server to operate over HTTP.

2)

Most modern web frameworks use a pipeline model where requests are passed through a stack of middleware (AKA filters/plugins). As the request flows through the pipeline, it can be inspected, transformed, modified, or terminated with a response. GraphQL should be placed after all authentication middleware, so that you have access to the same session and user information you would in your HTTP endpoint handlers.

3)

HTTP is commonly associated with REST, which uses “resources” as its core concept. In contrast, GraphQL's conceptual model is an entity graph. As a result, entities in GraphQL are not identified by URLs. Instead, a GraphQL server operates on a single URL/endpoint, usually /graphql, and all GraphQL requests for a given service should be directed at this endpoint.

4)

GraphQL HTTP HTTP GET POST

5)

When receiving an HTTP GET request, the GraphQL query should be specified in the “query” query string. For example, if we wanted to execute the following GraphQL query:

6)

This request could be sent via an HTTP GET like so:

7)

Query variables can be sent as a JSON-encoded string in an additional query parameter called variables. If the query contains several named operations, an operationName query parameter can be used to control which one should be executed.

8)

A standard GraphQL POST request should use the application/json content type, and include a JSON-encoded body of the following form:

9) operationName and variables are optional fields. operationName is only required if multiple operations are present in the query.

10) In addition to the above, we recommend supporting two additional cases:

11) If the “query” query string parameter is present (as in the GET example above), it should be parsed and handled in the same way as the HTTP GET case.

12) If the “application/graphql” Content-Type header is present, treat the HTTP POST body contents as the GraphQL query string.

13) If you're using express-graphql, you already get these behaviors for free.

14) Regardless of the method by which the query and variables were sent, the response should be returned in the body of the request in JSON format. As mentioned in the spec, a query might result in some data and some errors, and those should be returned in a JSON object of the form:

15) If there were no errors returned, the “errors” field should not be present on the response. If no data is returned, according to the GraphQL spec, the “data” field should only be included if no errors occurred during execution.

16) GraphQL is useful during testing and development but should be disabled in production by default. If you are using express-graphql, you can toggle it based on the [NODE_ENV](#) environment variable:

17) If you are using NodeJS, we recommend looking at the list of server implementations.

From:

<https://jace.link/> - **Various Ways**

Permanent link:

<https://jace.link/open/serving-over-http>

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