

GraphQL

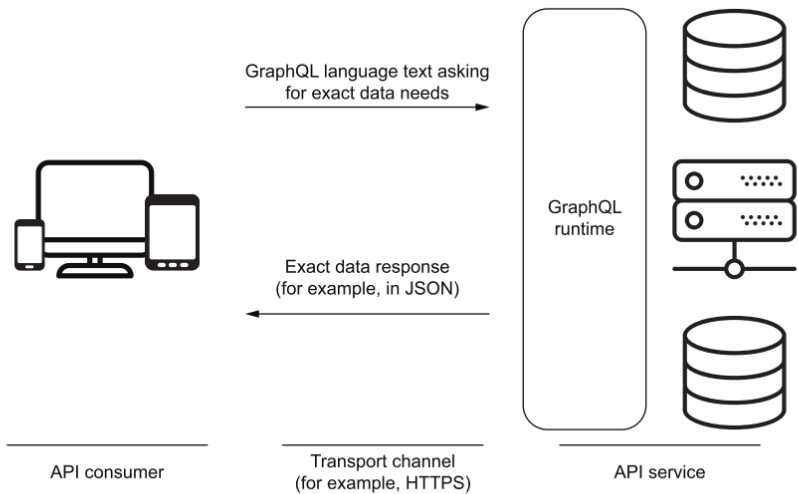
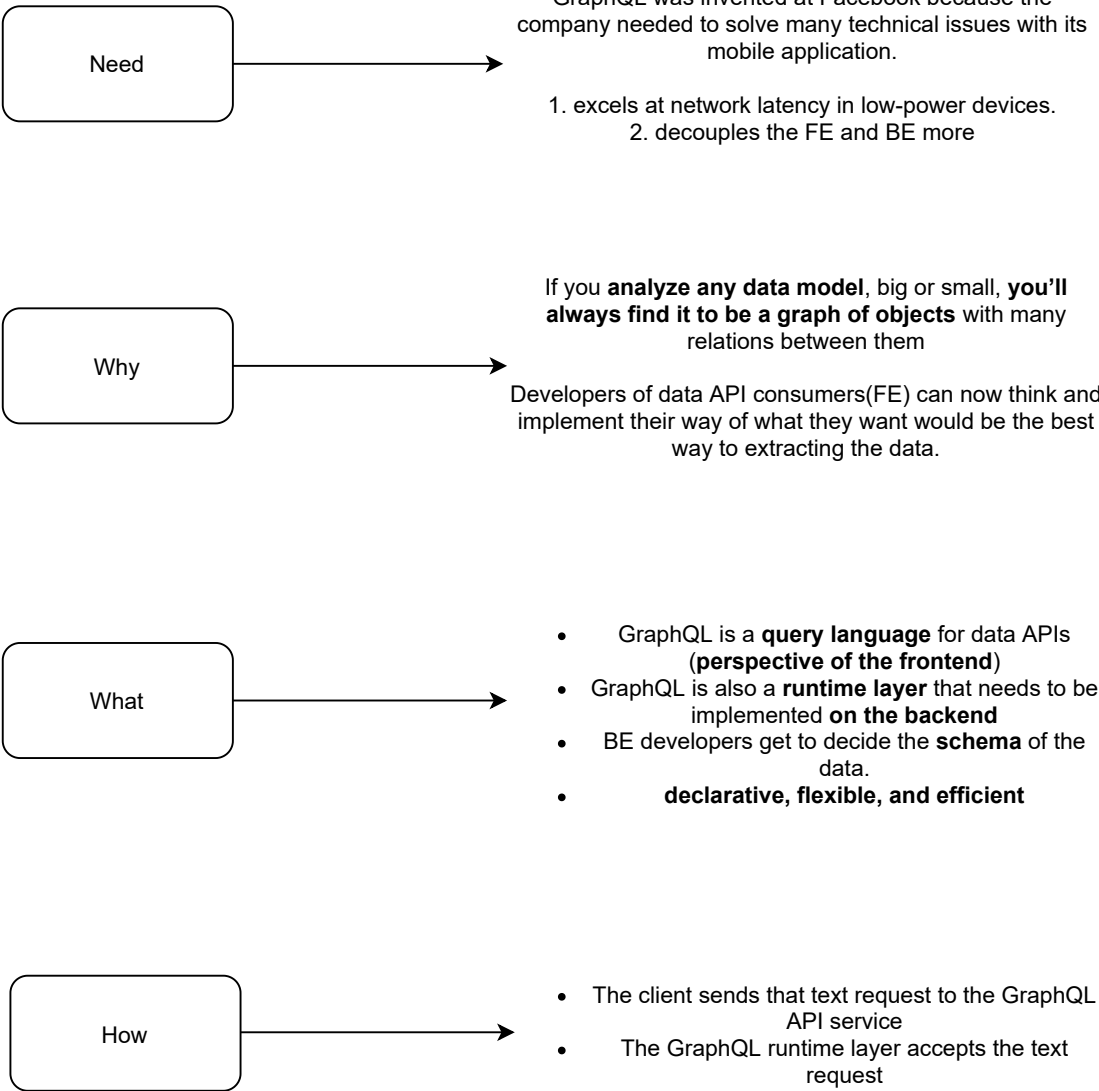


Figure 1.1 GraphQL is a language and a runtime.

communication → GraphQL clients communicate with GraphQL agents through JSON

GraphQL Query →

```
{  
  employee: (id: 42) => {  
    name,  
    email,  
    birthDate,  
    hireDate,  
  };  
}
```

How Query works ? →

The query is sent via some TCP based protocol (ex: HTTP) by GraphQL client to a GraphQL server that can understand and translate it into something the data-storage-engine(ex: SQL) can understand.

Then, the GraphQL server can take what the storage engine responds with, translate it into something like JSON or XML, and send it back to the client application.

Type System →

At the core of GraphQL is a strong type system that is used to describe data and organize APIs.

Types ensure that clients ask for only what is possible and provide clear and helpful errors.

Specification →

By facebook
<https://spec.graphql.org/>

Query vs Mutation →

you use queries; and when you need to modify data, you use mutations.