What is GraphQL?

- **Query Language**: GraphQL allows clients to request exactly the data they need, which can reduce the amount of data transferred over the network.
- **Single Endpoint**: Unlike REST APIs, which often have multiple endpoints for different resources, GraphQL typically exposes a single endpoint.
- **Strongly Typed**: It uses a type system to define the shape of the data and the operations that can be performed, which can improve API documentation and validation.

Key Features

1. **Flexible Queries**: Clients can specify the structure of the response, which means they can ask for nested data in a single request.
2. **Real-time Updates**: Supports subscriptions for real-time updates to data.
3. **Introspection**: Clients can query the API for its schema, which helps with documentation and tooling.

Use Cases

- **Single Page Applications (SPAs)**: Great for apps that need to fetch data dynamically.
- **Mobile Applications**: Efficient data loading helps improve performance on mobile networks.
- **Microservices**: Can unify multiple services under a single API.

If you need more specific information or have questions about implementing GraphQL, let me know!