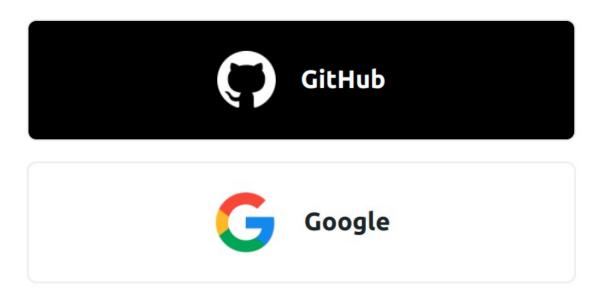
## **Hasura Training**



Figure 1: <a href="https://tinyurl.com/mvf2ecee">https://tinyurl.com/mvf2ecee</a>

### What We Will Need

# Start Your Hasura Project

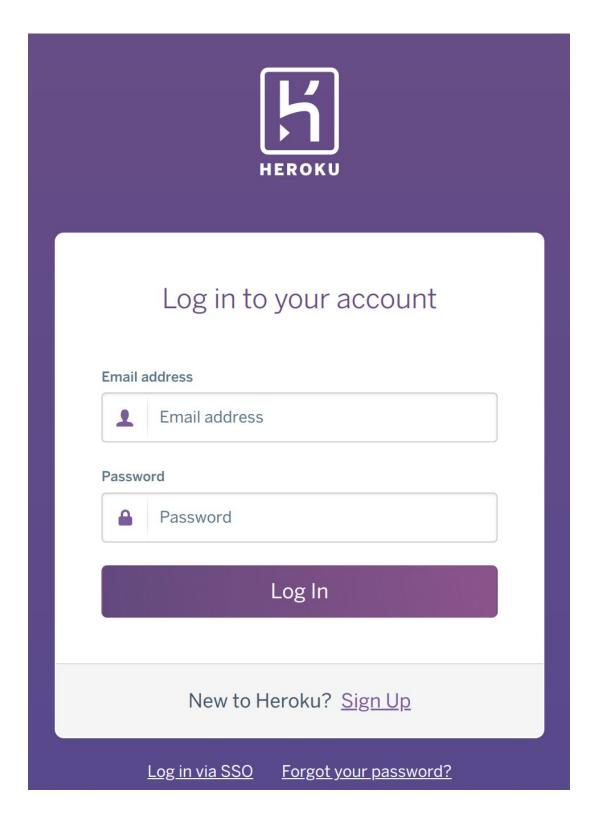


■ Want to continue with your org? Sign in with SSO

Sign up with Email

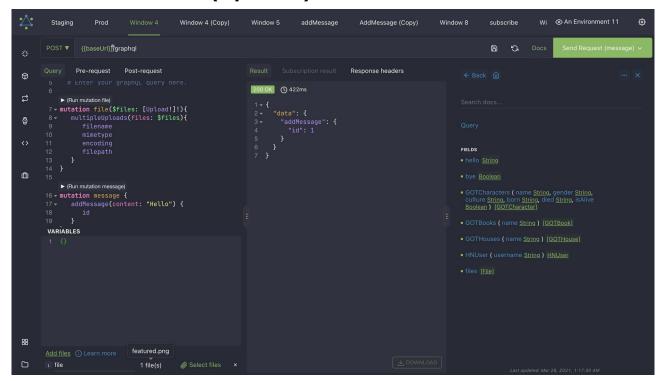
Have an email account? Sign In

http://cloud.hasura.io



https://www.heroku.com/

## What We Will Need (Optional)



https://altairgraphql.dev/

#### What We Will Cover

- What is GraphQL?
- What is Hasura?
- How do we use them?
- How do we use them well?
- What are the general principles?
- What are the particular details?
- What is the proper mental model?
- How do we get there?

## What is GraphQL?

- Query Language
- Schema
  - Types
    - Fields
- Types relate to Types
- Sound familiar?

```
query MyQuery {
                               "data": {
user {
                                  "user": [
  id
  name
                                   {
                                     "id": 4,
  email
                                     "name": "Dickie",
  addresses {
                                      "email": "dmayell2@yellowbook.com",
    id
                                      "addresses": [
    name
    address line one
                                        {
    address_line_two
                                          "id": 1,
                                          "name": null,
    city
                                          "address line one": "119 Victoria Trail",
                                          "address line two": null,
}
                                          "city": "Springfield"
                                      ]
                                   },
                                     "id": 5,
                                      "name": "Korella",
                                      "email": "kfriedlos3@comsenz.com",
                                      "addresses": [
                                          "id": 2,
                                          "name": null,
                                          "address_line_one": "06 Holy Cross Lane",
                                          "address line two": null,
                                          "city": "Indianapolis"
                                     ]
```

#### What is Hasura?

- API Server
- Development Environment

#### How do we use them?

• Build network applications *faster*, more *reliably*, and *cheaper* with GraphQL.

},

- Build GraphQL applications *faster*, more *reliably*, and *cheaper* with Hasura.
- Apply the general principles with training from *Hasura Developer Relations*.
- Apply the particular details with support from *Hasura Developer Success*.

#### How do we use them well?

- Adopt a principled approach.
- Develop a proper mental model.

## What are the general principles?

- 1. Build for humans.
- 2. Build with *personas*.
- 3. Build *in* the database.
- 4. Build a data model.
- 5. Remember OLTP vs OLAP.

### What is the proper mental model?

- Hasura graphql-engine is the API server, is on the data plane, and is on the critical path.
- Hasura console is part of the development environment, is on the control plane, and is off the critical path.
- Hasura CLI is part of the development environment, is on the control plane, and is far off the critical path.

## What is the proper mental model?

- The key *functional* concerns are: data modeling, API development, security, and integrations.
- The key *non-functional* concerns are: deployment, caching, monitoring.

## How do we get there?

- Track 1: Development
- Track 2: Deployment

## **Track 1: Development**

- Setup
- Modeling
- Security
- Actions
- Events
- APIs
- Remote Joins
- Remote Schema

## **Track 2: Deployment**

- Self-Hosted vs Cloud
- Development Environment
- CI/CD