Prerequisites

- conda installed
- npm installed
- Maven installed
- Neo4j installed
  - APOC installed

Setting up the environment

1. Clone the GitHub repository

```
git clone https://github.com/BackofenLab/protein-graph-database.git
cd protein-graph-database/
```

2. Pull the branch 2022_changesNico_vue3

```
git checkout 2022_changesNico_vue3
git pull
```

3. Create a conda environment (environment.yml)

```
make env
```

4. Activate the conda environment

```
conda activate pgdb
```

Setting up the database

1. Download our test sample database
2. Stop the neo4j database if running

```
stop neo4j
```

3. Load the dump file into your own database

```
neo4j-admin load --from=<backup-directory> --database=<database-name> --force
```

4. Start the database

```
start neo4j
```

Install APOC plugin

1. Move the Apoc.jar into neo4j/plugin
2. Add following permissions to the neo4j.config

```
dbms.security.procedures.whitelist=apoc.export.*
apoc.import.file.use_neo4j_config=false
apoc.export.file.enabled=true
```

Setting up the program

Frontend

1. Install npm packages

```
cd frontend/
npm install
```

2. Build npm program

```
npm run build
```

Backend

1. Create maven jar file for gephi

```
cd gephi-backend
mvn install
```

2. Run server with python

```
python server.py
```