

How to Build a Poject

Prerequisites

- Docker
- Docker Compose

Backend:

1. JDK 21 from [Download the Latest Java LTS Free](#) (current LTS)
2. IntelliJ IDEA Ultimate (available with uni account) or Community Edition {my recommendation}

Frontend:

3. Node.js v22.10.0(LTS) [Node.js — Download Node.js®](#)
4. npm
5. vsCode

Dependencies included - spring:

- Lombok (quite handy)
- Spring Data JPA
- Spring Boot Dev Tools
- Spring Web

Dependencies react:

- axios (not included, my recommendation)
- bootstrap (not included, my recommendation)

Build the project step-by-step

Disclaimer: Database will persist only locally. Dump policy is still up to come.

1. Clone GitHub repo (be sure you set up SSH connection keys):

```
1 git clone git@github.com:ddarnold/Online_Tutoring_Platform.git
```

2. Change directory:

```
1 cd Online_Tutoring_Platform
```

3. Configure the `.env` File:

```
1 cp .env.example .env # Rename it
2 # step2: Populate the .env file with our values
```

4. Build a docker container:

```
1 # step by step
2 docker-compose rm -f # Remove any existing services
3 docker-compose pull # Pull any updates from available images
4 docker-compose up --build -d # Build and Start Services
5
6 # or as a single liner
7 docker compose up --build -d --force-recreate --remove-orphans
```

5. Voila!

postgres is on localhost:5432

pgadmin is on localhost:5050

sprint is on localhost:8080

react is on localhost:3000

6. Optional: At the end create database dump:

```
1 docker exec -t <your-postgres-container-id> pg_dumpall -c -U developer > dump_`date +%d-%m-%Y"_"%H_%M_%S`.sql
```

7. if you wanna gracefully stop services:

```
1 docker-compose stop -t 1
```