

# Learning suggestions and some resources for Backend Team

- Spring boot:
  - Spring boot tutorial (easy one): [📺 Spring Boot Full Stack and Angular | Full Course](#) (Watch till 1:03 hours). The main goal is to familiarize with the structure of Spring boot.
  - Look up important concepts in spring boot:
    - Dependency injection
    - java beans
    - components in spring boot + annotations
- Databases:
  - Revise concepts:
    - DB schema, primary and foreign keys
    - entity relationships: multiplicities (1-to-1, 1-to-many etc., what they actually mean)
    - Transactions
  - Database programming interfaces:
    - JPA, JPQL
  - Basics of postgresql environment
  - Schema design:
    - Try to use any reasonable tool to try schema modelling for our database: (eg: [DbSchema - Database Design, Management & Collaboration Tool](#) , but it offers a trial version for few days only.) Please do suggest if you have other recommendations.
- Other tools:
  - Get familiarized with API testing tools such as postman, HTTPie.
  - Refresh on GIT: clone, pull, push, pull requests etc.
- Test DEV environment on your machine:
  - Try out the dev environment and make sure it runs on YOUR local machine. Report any problems as early as possible as it may be easy to solve them now, than when we go into deeper waters.
  - Make sure the frontend, backend and database can run in detached mode as well.