NestJS learning scope

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Databases

- 1. Good knowledge of database normalization, understanding at least 1-3 Normal Forms (1NF, 2NF, 3NF)
- 2. SQL (musts: select, joins ,where, group by, having, order by, subqueries)
- 3. Database transactions (including isolation levels) and ACID database properties please use Postgresql I or MS SQL as an real life example.
- 4. Database indexes theory and implementation in Postgresql.

Coding

- Design patterns a required knowledge includes understanding of the design patterns listed here (https://refactoring.guru/design-patterns/catalog) plus Dependency Inversion Principle, Dependency Injection Pattern, Single Responsibility Principle
- 2. Touch Typing required speed: min. 40 words per minute

Technology

- 1. Git this is a must! ((for example this guide is quite good: https://git-scm.com/book/en/v2). You have to be fluent in git.
- 2. Javascript and Typescript
- 3. NestJS (https://nestjs.com/)
- 4. Jest (https://iestis.io/)
- 5. GraphQL (https://docs.nestjs.com/graphql/quick-start)
- 6. Docker along with docker-compose

Security

1. OWASP TOP 10: https://owasp.org/www-project-top-ten/