VTube

Simple YouTube Implementation

creators:

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Functionality:

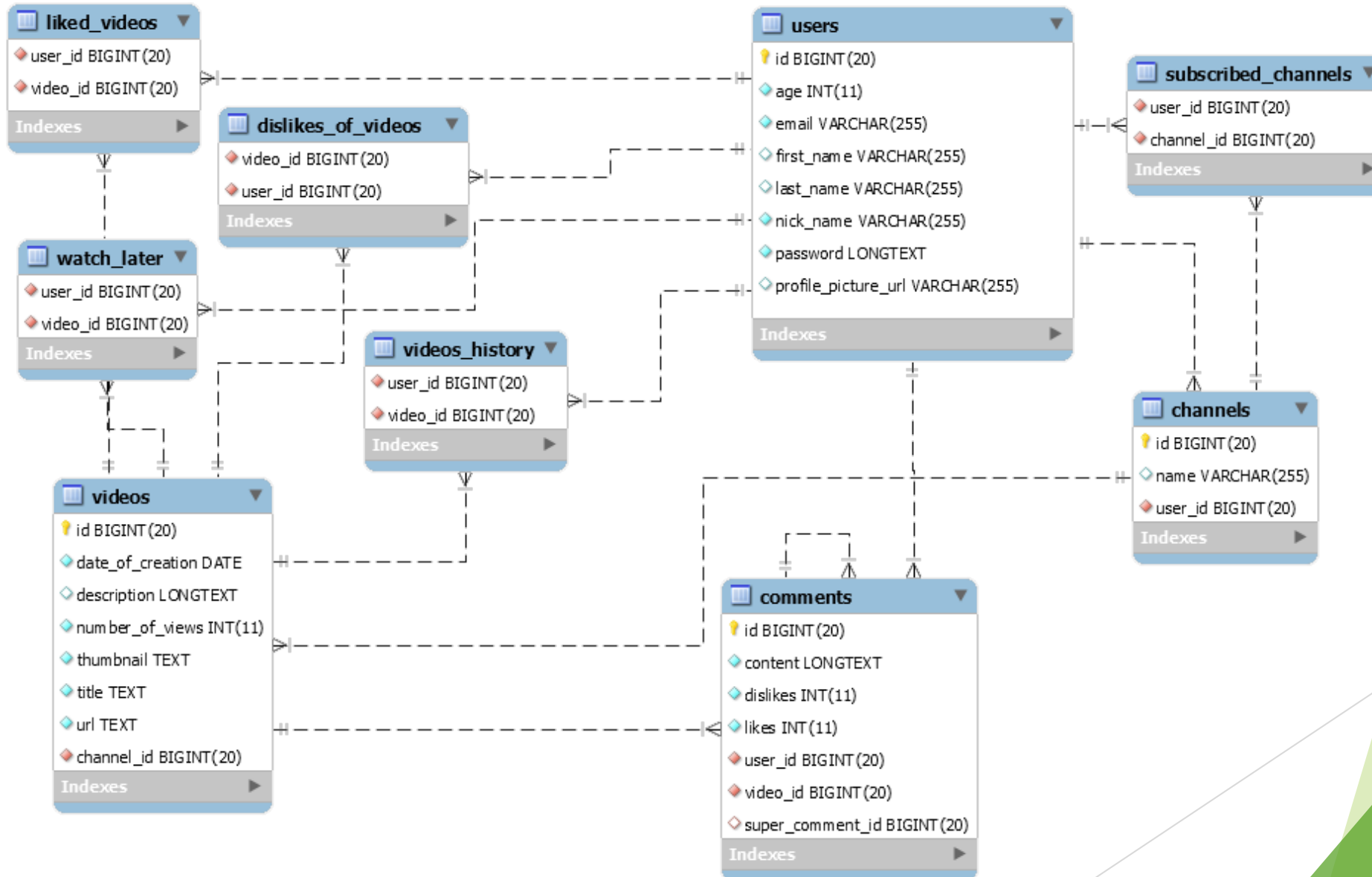- **Recreate back-end logic of youtube.com;**

- **Operations:**

  - ❑ Sign up in site – Log in and Log out;

  - ❑ User must create a channel, in order to upload videos;

  - ❑ Each user can subscribe to other channel;

  - ❑ Each user can upload and delete his own videos;

  - ❑ Everyone (logged in or not) can watch videos;

  - ❑ Each user can add videos to watch later list;

  - ❑ User can Like/Unlike, Dislike/Remove dislike on a video;

  - ❑ Each video, liked by user is stored in liked videos list;

  - ❑ All videos, watched by user are added in watched videos list;

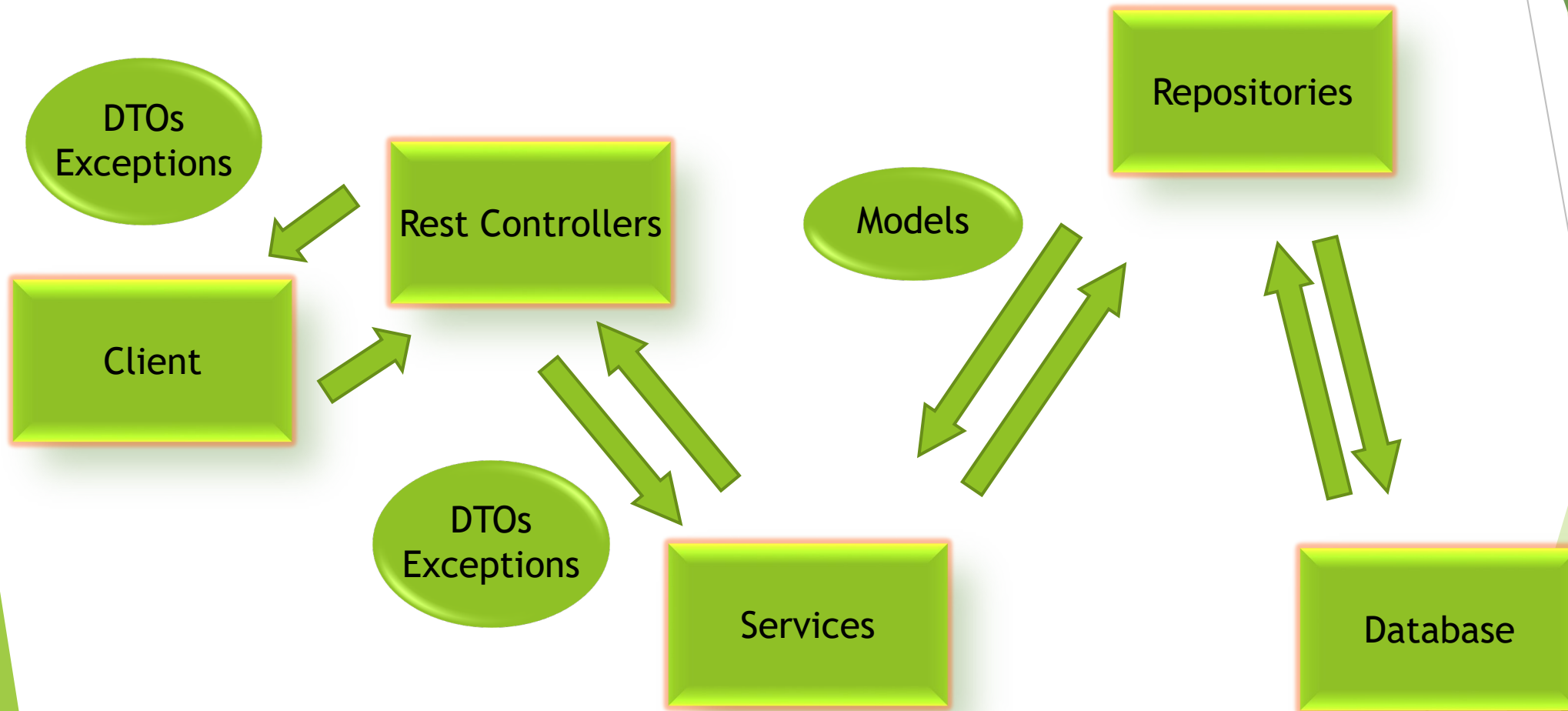 - ❑ User can comment on a video – Like/Dislike comments.

Technologies Used:

▶ **Java Platform, Enterprise Edition 8** ☺

▶ **SQL -> MySQL relational database;**

▶ **Spring Boot:**

- ❏ DAL (Data Access Layer) -> @Repository –> Hibernate -> Manage requests to DB;

- ❏ Model layer ->POJO -> @Entity -> JPA -> Object representation of DB tables;

- ❏ Controllers layer -> @RestController –> @RequestMapping -> RESTful Web Service;

- ❏ Service layer -> @Service -> Manage request - response logic;

- ❏ DTO -> POJO -> Manage request – Response data transfer;

- ❏ Exceptions -> @ResponseStatus -> Manage response if validation fails;

- ❏ Security -> BCrypt -> Inbuilt class for hashing passwords;

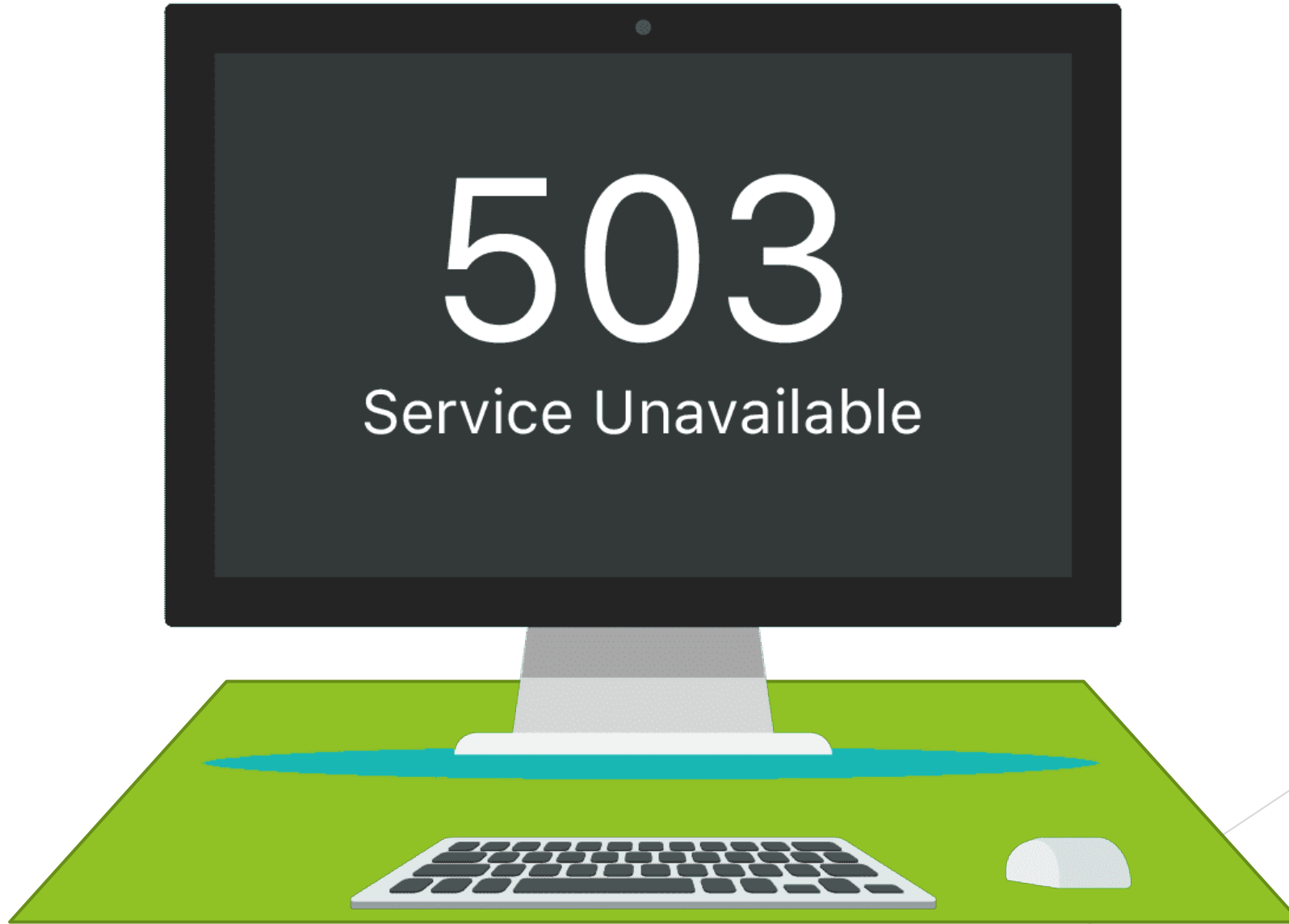▶ **Project Lombok -> @Data, @NonNull, @NoArgsConstructor, etc.**

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Database Architecture:

Project Structure:

Demonstration of functionality:

Thank you for your attention!

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