

Angular

1. Components

- 0. app-component -> navbar code and logic
- a. home-page -> show article cards and modal with like, comment, share, read more
- b. login-page -> login form
- c. signup-page -> sign up form
- d. like-history -> like history table
- e. comment-history -> comment history table

2. Classes

- a. user.ts
 - all instance variables
- b. likes.ts
 - all instance variables
- c. comments.ts
 - all instance variables
- d. article.ts
 - all instance variables

3. Services

- a. user.service.ts -> interact with user table -> /api/user
- b. likes.service.ts -> interact with likes table -> /api/likes
- c. comments.service.ts -> interact with comments table -> /api/comments
- d. article.service.ts -> interact with article table -> /api/article
- e. news.service.ts -> interact with newsAPI
- f. auth.service.ts -> login/logout

4. Guard

- a. auth.guard.ts -> login/logout

Spring Boot

1. Config

- a. Data Rest Config

2. Entity

- a. User
 - all instance variables
- b. Likes
 - all instance variables
- c. Comments
 - all instance variables
- d. Article
 - all instance variables

3. Repository

- a. User Repository
 - i. existsByUsernameAndPassword(username, password) -> login validation
- b. Likes Repository
 - i. findById(userid) -> get all likes of user -> like history
 - ii. countByArticleId(articleid) -> get number of likes for an article
- c. Comments Repository
 - i. findById(userid) -> get all comments of user -> comment history

ii. findByArticleId(articleid) -> get all comments of an article

ii. countByArticleId(articleid) -> get number of comments on an article

d. Article Repository

MySQL

1. User

--userid	PK
--fullname	
--username	
--emailid	
--password	
--dob	
--isadmin	

2. Likes

--likeid	PK
--userid	FK
--articleid	FK

3. Comments

--commentid	PK
--userid	FK
--articleid	FK
--comment	

4. Article

--articleid	PK
--title	