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Perfect Articles
Interview Project Documentation

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Process:

- Began working on the project in the front end since that's where I had less experience.
- Used https://www.springboottutorial.com/spring-boot-react-full-stack-crud-maven-application as a guide.
- Determined the look of the components first, filling in with dummy data in the front end.
- Added the Axios calls to get data from the backend.
- Created the endpoints in the backend to give dummy data.
- Integrated that new data into the front end.
- Built out the backend to persist data to the database.
- Tested functionality through postman and the front end.
- Finalized the documentation and cleaned the code.

What was used:

Built the project from these starting points:

Front end	Back end	Database
• npx create-react-app	• Spring Initializr	• Docker PostgreSQL container

Applications used:

Front end	Back end	Database
• Visual Studio Code	• IntelliJ • Postman	• Kitematic • DataGrip

Languages / Frameworks used to create the project:

Front end	Back end	Database
• Java Script • React • CSS • html • Axios • Bootstrap	• Java • Spring • Hibernate • Maven • Json	• Sql • Postres

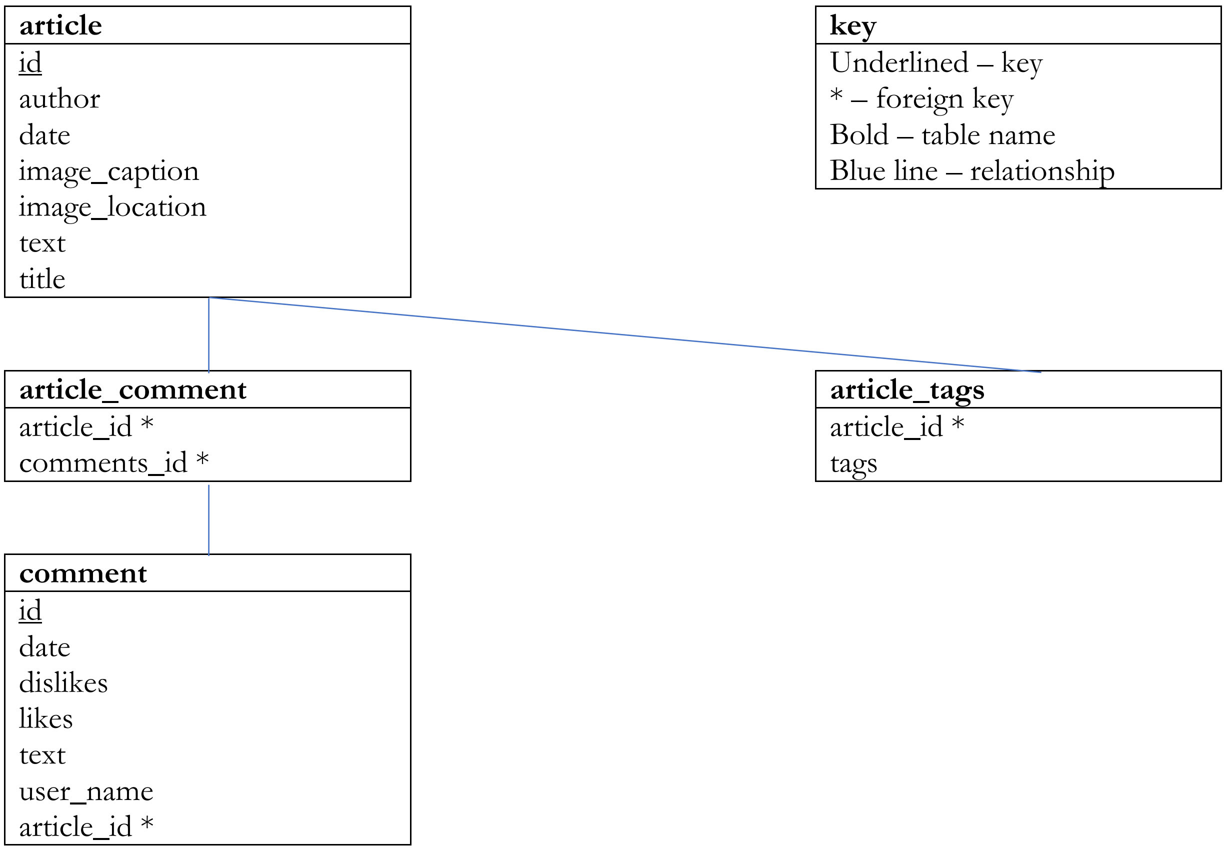
Steps to start the project locally:

1. Launch the Postgres database docker container.
2. If necessary, correct the data source url with the new port number the container is running on, in: perfectArticlesBack/src/main/resources/application.properties. The property is: spring.datasource.url= jdbc:postgresql://localhost:32768/postgres.
3. Launch perfectArticlesBack.
4. In the terminal, change directories into perfect-articles-frontend and run: npm start.
5. Click the PA logo to the left of the title to populate the database with example articles.

Test articles from:

- https://www.newyorker.com/books/page-turner/the-difference-between-bird-watching-and-birding
- https://pitchfork.com/reviews/albums/harry-styles-fine-line/
- https://www.shutupandsitdown.com/review-sagrada/

Database table relationships:



article
id
author
date
image_caption
image_location
text
title

key
Underlined – key
* – foreign key
Bold – table name
Blue line – relationship

article_comment
article_id *
comments_id *

article_tags
article_id *
tags

comment
id
date
dislikes
likes
text
user_name
article_id *

Endpoints:

ArticleController:

getAllArticles:

Path	http://localhost:8080/article/full
Type	Get
Description	Gives you all articles ordered by the most recently posted article
Return Type	List<ArticleDto>

getArticle:

Path	http://localhost:8080/article/{id}/id
Type	Get
PathVariable	{id} – Integer and must map to a valid article
Description	Gives you the articleDto of the the {id} passed in if valid if it is not valid this method will return null
Return Type	ArticleDto

getArticlesByDate:

Path	http://localhost:8080/article/{amount}/amount
Type	Get
PathVariable	{amount} – Integer
Description	Gives you the {amount} of articleDtos requested ordered by most recently posted article
Return Type	List<ArticleDto>

loadExampleArticles:

Path	http://localhost:8080/article/articles
Type	Post
Description	Adds the example articles to the database
Return Type	AddResponse

CommentController:

getArticleComments:

Path	http://localhost:8080/comment/{idArticle}/id_article
Type	Get
PathVariable	{idArticle} – Integer must map to valid article
Description	Gives you all the comments for the requested {idArticle}
Return Type	List<CommentDto>

getArticleCommentTop:

Path	http://localhost:8080/comment/top/{idArticle}/id_article
Type	Get
PathVariable	{idArticle} – Integer must map to valid article
Description	Gives you the most recent comment on an article
Return Type	CommentDto

getCommentById:

Path	http://localhost:8080/comment/{id}/id
Type	Get
PathVariable	{is} – Integer must map to valid comment
Description	Gives you the comment with {id}
Return Type	CommentDto

addCommentToArticle:

Path	http://localhost:8080/comment/comment/{idArticle}/id_article
Type	Post
PathVariable	{idArticle} – Integer must map to valid article
RequestBody	CommentDto
RequestBody example	{ "userName": "Garrett Christian", "text": "This was a great read!", "likes": 0, "dislikes": 0 }
Description	Adds the RequestBody comment to the article date and id will be ignored the username and text must be at least one character
Return Type	AddResponse

changeCommentLikeDislikes:

Path	http://localhost:8080/comment/{id}/id/{likeDislikes}/like_dislikes/{value}/value
Type	Post
PathVariable	{id} – Integer must map to a valid comment id {likeDislikes} – String use “LIKES” to change likes and “DISLIKES” to change dislikes {value} – Integer how much will be add to the current value of likes/dislikes
Description	Updates the comment’s like/dislike by the amount of {value}
Return Type	AddResponse

Backlog

Feature Add Users	Add Users – add users to the perfect article project Requirements: • Add new user classes to the backend with a one to many relationships with comments • Create new endpoints in the backend to support the user class • Implement users in the front end with login page and automatic usernames for comments
Improvement Pageless pagination	Pageless pagination – Change the load all buttons to use pageless batching Requirements: • Change the current get all comments/article endpoints to accept an amount and sort by parameter • Add buttons to front end to support a batched list of comments/articles