

Home

Samuel Branisa edited this page 28 days ago · 2 revisions

Vitajte v dokumentácii k projektu Publisher implementovaný na predmet DBS na FIIT STU.

Projekt bol odovzdávaný na tri časti:

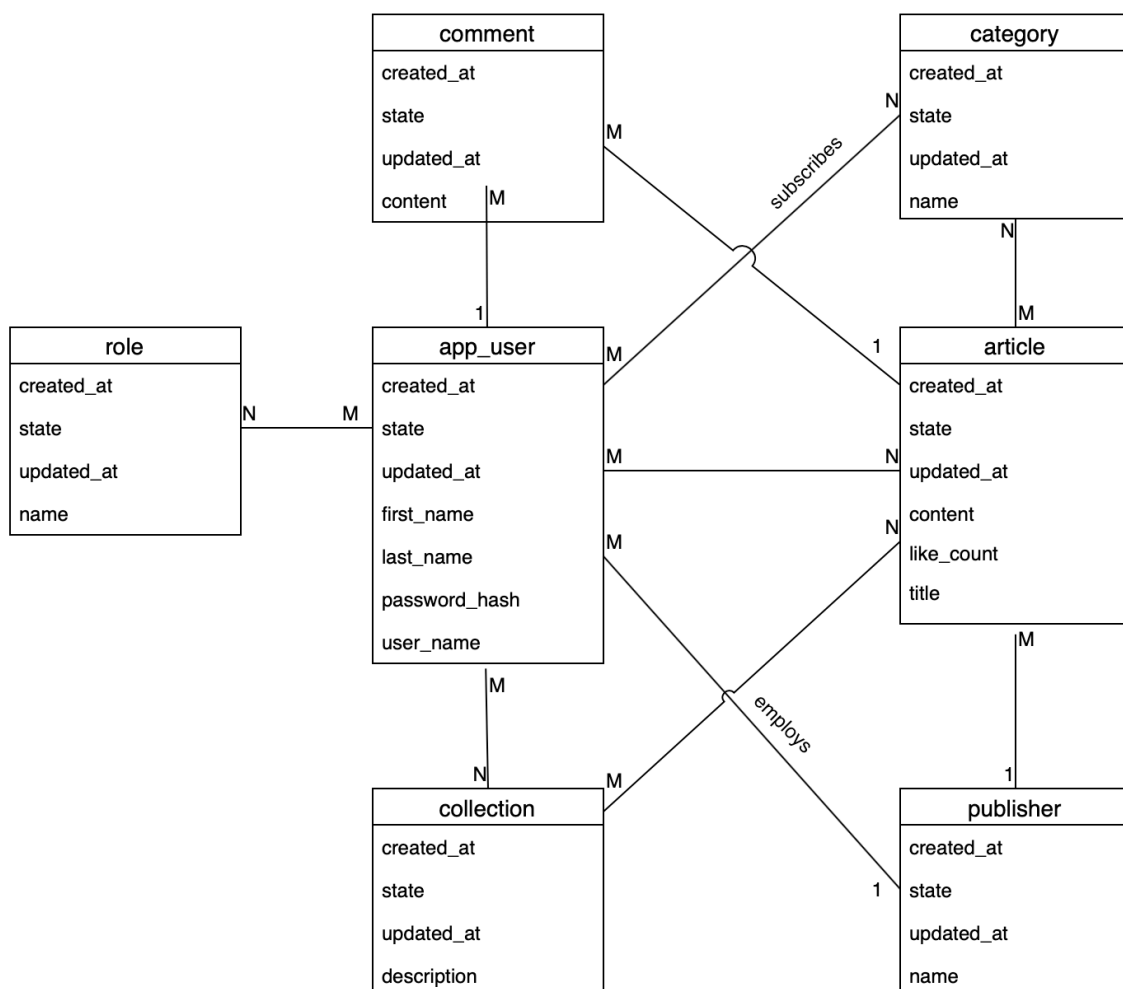
- 1. Odovzdanie: Základy projektu, definícia dátového modelu, základné rozhrania.
- 2. Odovzdanie: Implementácia väčšiny scenárov, kompletne naplnenie databázy.
- 3. Odovzdanie: N/A

Databáza

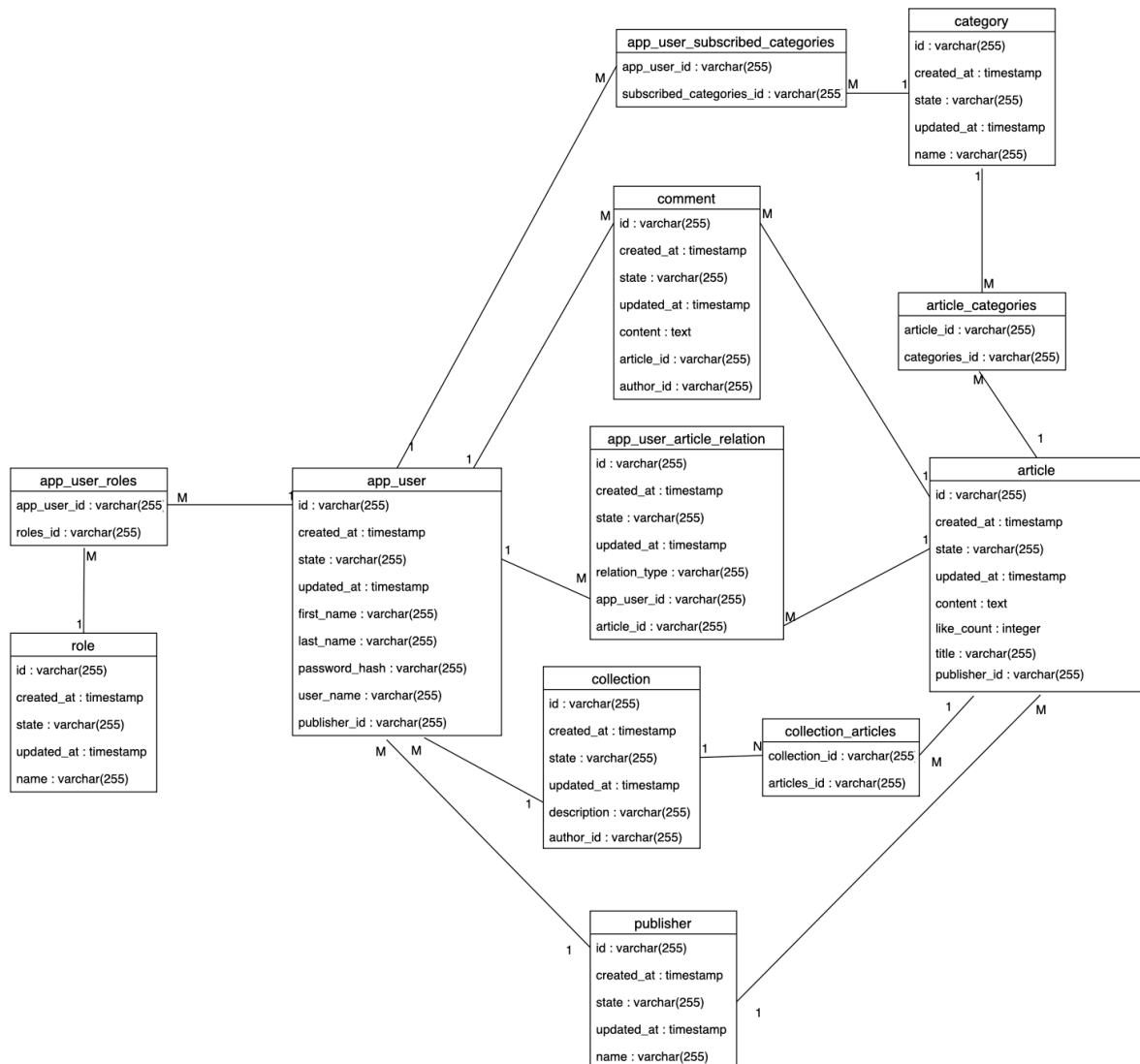
Robert Gers edited this page 23 days ago · 2 revisions

V projekte je použitá databáza PostgreSQL 12. DDL Skript na vytvorenie tabuliek sa nachádza [tu](#). Dáta su generované po spustení aplikácie s initDb profilom. Menší počet článkov je insertovaný z .json súboru, v ktorom sú realistickejšie dáta obsahujúce skutočné titulky. Zvyšné články sú generované náhodne, s použitím [JavaFaker](#) knižnice. Dump databázy je uploadnutý na [Google drive](#)

Logický model



Fyzický model



Kveráče

Získanie článku pomocou UUID daného článku.

```
SELECT a.id,
       a.title,
       a.created_at,
       au.user_name           AS user_name,
       au.first_name         AS first_name,
       au.last_name          AS last_name,
       au.id                 AS author_id,
       c.name                AS c_name,
       c.id                 AS c_id,
       p.name                AS p_name,
       p.id                 AS p_id,
       a.content             AS content,
       exists(
         SELECT id
         FROM app_user_article_relation
         WHERE article_id=a.id AND
               app_user_id='2863a740-a606-476e-abea-9abe365200ff' AND
               relation_type='LIKE'
       ) AS
       liked,
       (SELECT count(relation.id)
        FROM app_user_article_relation relation
        WHERE relation.article_id = a.id
        AND relation.relation_type = 'LIKE') AS like_count,
       com.id                AS com_id,
       com.content           AS com_content,
       com_author.id         AS com_author_id,
       com_author.user_name  AS com_author_user_name,
       com_author.first_name AS com_author_first_name,
       com_author.last_name  AS com_author_last_name
FROM article a
  JOIN app_user_article_relation aar ON a.id = aar.article_id AND
    aar.relation_type = 'AUTHOR'
  JOIN app_user au ON aar.app_user_id = au.id
  LEFT OUTER JOIN article_categories ac on a.id = ac.article_id
  LEFT OUTER JOIN category c on ac.categories_id = c.id
  LEFT OUTER JOIN publisher p on a.publisher_id = p.id
  LEFT OUTER JOIN comment com on a.id = com.article_id
  LEFT OUTER JOIN app_user com_author on com.author_id = com_author.id
WHERE a.id='0f87116b-7c95-4494-b3a5-34ef709e6838';
```

Získanie základných údajov o článkoch s implementáciou filtru.

```
WITH a AS (
  SELECT a.id
  FROM (select * from article WHERE state='ACTIVE' ORDER BY like_count DESC) as
  a
  JOIN app_user_article_relation aar ON a.id = aar.article_id AND
  aar.relation_type = 'AUTHOR'
  JOIN app_user au ON aar.app_user_id = au.id
  LEFT OUTER JOIN article_categories ac on a.id = ac.article_id
```

```

        LEFT OUTER JOIN category c on ac.categories_id = c.id
        LEFT OUTER JOIN publisher p on a.publisher_id = p.id
    GROUP BY a.id, a.title
    HAVING lower(a.title) LIKE lower(('%' || 'Microsoft Bing' | '%'))
        AND ('%' || 'Jozko' || '%' || 'Mrkvicka' || '%') ~~~~
    ANY(array_agg(au.first_name || au.last_name))
        AND ('%' || 'technology' || '%') ~~~~ ANY(array_agg(c.name))
        AND lower((array_agg(p.name))[1]) LIKE lower('%' || 'Al Jazeera' || '%')
)
SELECT art.id,
       art.title,
       art.created_at,
       au.user_name AS user_name,
       au.first_name AS first_name,
       au.last_name AS last_name,
       au.id AS author_id,
       c.name AS c_name,
       c.id AS c_id,
       p.name AS p_name,
       p.id AS p_id,
       art.like_count AS like_count,
       exists(
           SELECT id
           FROM app_user_article_relation
           WHERE article_id=a.id AND
                 app_user_id='000001cc-5307-41ca-88e5-08e04398ebbe' AND
                 relation_type='LIKE'
       ) AS liked
FROM a
    JOIN article art ON art.id = a.id
    JOIN app_user_article_relation aar ON art.id = aar.article_id AND
    aar.relation_type = 'AUTHOR'
    JOIN app_user au ON aar.app_user_id = au.id
    LEFT OUTER JOIN article_categories ac on art.id = ac.article_id
    LEFT OUTER JOIN category c on ac.categories_id = c.id
    LEFT OUTER JOIN publisher p on art.publisher_id = p.id
WHERE art.id = a.id
ORDER BY like_count DESC;

```

Získanie základných údajov o článkoch v rozmedzí.

```

WITH a AS (
    SELECT a.id
    FROM article a
    WHERE state='ACTIVE'
    ORDER BY a.like_count DESC
    OFFSET 0 ROWS
    FETCH NEXT 50 ROWS ONLY
)
SELECT art.id,
       art.title,
       art.created_at,
       au.user_name AS user_name,
       au.first_name AS first_name,
       au.last_name AS last_name,
       au.id AS author_id,
       c.name AS c_name,
       c.id AS c_id,

```

```

p.name          AS p_name,
p.id            AS p_id,
art.like_count  AS like_count,
exists(
    SELECT id
    FROM app_user_article_relation
    WHERE article_id=a.id AND
          app_user_id='000001cc-5307-41ca-88e5-08e04398ebbe' AND
          relation_type='LIKE'
) AS liked
FROM a
    JOIN article art ON art.id = a.id
    JOIN app_user_article_relation aar ON art.id = aar.article_id AND
aar.relation_type = 'AUTHOR'
    JOIN app_user au ON aar.app_user_id = au.id
    LEFT OUTER JOIN article_categories ac on art.id = ac.article_id
    LEFT OUTER JOIN category c on ac.categories_id = c.id
    LEFT OUTER JOIN publisher p on art.publisher_id = p.id
WHERE art.id = a.id
ORDER BY like_count DESC");

```

Získanie základných údajov o článkoch od daného autora.

```

WITH a AS (
    SELECT a.id
    FROM (select * from article WHERE state='ACTIVE' ORDER BY like_count DESC) as
a
    JOIN app_user_article_relation aar ON a.id = aar.article_id AND
aar.relation_type = 'AUTHOR'
    WHERE aar.app_user_id='000001cc-5307-41ca-88e5-08e04398ebbe'
    OFFSET 0
    LIMIT 50;
)
SELECT art.id,
    art.title,
    art.created_at,
    au.user_name AS user_name,
    au.first_name AS first_name,
    au.last_name AS last_name,
    au.id        AS author_id,
    c.name       AS c_name,
    c.id        AS c_id,
    p.name       AS p_name,
    p.id        AS p_id,
    art.like_count AS like_count,
    exists(
        SELECT id
        FROM app_user_article_relation
        WHERE article_id=art.id AND
              app_user_id='000001cc-5307-41ca-88e5-08e04398ebbe' AND
              relation_type='LIKE'
    ) AS liked
FROM a
    JOIN article art ON art.id = a.id
    JOIN app_user_article_relation aar ON art.id = aar.article_id AND
aar.relation_type = 'AUTHOR'
    JOIN app_user au ON aar.app_user_id = au.id
    LEFT OUTER JOIN article_categories ac on art.id = ac.article_id

```

```
LEFT OUTER JOIN category c on ac.categories_id = c.id
LEFT OUTER JOIN publisher p on art.publisher_id = p.id
ORDER BY like_count DESC");
```

Vloženie článku - Transakcia.

```
SELECT
    r.name,
    users.publisher_id
FROM app_user users
    JOIN app_user_roles bind ON users.id = bind.app_user_id
    JOIN role r ON bind.roles_id = r.id
WHERE users.id = '000001cc-5307-41ca-88e5-08e04398ebbe';

INSERT INTO article (id, created_at, state, updated_at, content, like_count,
title, publisher_id)
VALUES (
    '0f87116b-7c95-4494-b3a5-34ef709e6838',
    '2020-04-13 19:01:03.533578',
    'ACTIVE',
    '2020-04-13 19:01:03.533578',
    'Lorem Ipsum...',
    0,
    'Covid-19 is deadly af.',
    '06ae7c9d-15b3-40c7-a15d-ddc0e96829a9'
)

INSERT INTO app_user_article_relation (
    id,
    created_at,
    state,
    updated_at,
    article_id,
    app_user_id,
    relation_type
)
VALUES (
    '648c8f76-897a-4dc7-81c1-967196ee06af',
    '2020-04-13 19:01:03.533578',
    'ACTIVE',
    '2020-04-13 19:01:03.533578',
    '8fd7a41a-cdfd-47be-81ce-bb4039bba4c7',
    '0f87116b-7c95-4494-b3a5-34ef709e6838',
    'AUTHOR'
);

UPDATE article
    SET updated_at = '2020-04-13 19:01:03.533578',
        content = 'LoremIpsum2',
        title = 'Covid-19 is deadly af.'
WHERE id = '648c8f76-897a-4dc7-81c1-967196ee06af';

DELETE
FROM article_categories
WHERE article_id = '648c8f76-897a-4dc7-81c1-967196ee06af';

INSERT INTO category (id, created_at, state, updated_at, name)
VALUES (
```

```

        '648c8f76-897a-4dc7-81c1-967196ee06af',
        '2020-04-13 19:01:03.533578',
        'ACTIVE',
        '2020-04-13 19:01:03.533578',
        'kategoria-fiit'
    )

INSERT INTO article_categories (article_id, categories_id)
VALUES (
    '8fd7a41a-cdfd-47be-81ce-bb4039bba4c7',
    '0f87116b-7c95-4494-b3a5-34ef709e6838'
)

```

Soft delete článku - Transakcia.

```

UPDATE article
SET updated_at = '2020-04-13 19:01:03.533578', state = 'DELETED'
WHERE id = '0f87116b-7c95-4494-b3a5-34ef709e6838'

```

Vloženie komentáru - Transakcia.

```

INSERT
INTO comment (id, created_at, state, updated_at, article_id, content, author_id)
VALUES (
    '648c8f76-897a-4dc7-81c1-967196ee06af',
    '2020-04-13 19:01:03.533578',
    'ACTIVE',
    '2020-04-13 19:01:03.533578',
    '8fd7a41a-cdfd-47be-81ce-bb4039bba4c7',
    'Mam velmi rad tohto autora',
    '0f87116b-7c95-4494-b3a5-34ef709e6838'
)

```

Lajknutie článku - Transakcia.

```

INSERT INTO app_user_article_relation (
    id,
    created_at,
    state,
    updated_at,
    article_id,
    app_user_id,
    relation_type
)
VALUES (
    '648c8f76-897a-4dc7-81c1-967196ee06af',
    '2020-04-13 19:01:03.533578',
    'ACTIVE',
    '2020-04-13 19:01:03.533578',
    '8fd7a41a-cdfd-47be-81ce-bb4039bba4c7',
    '0f87116b-7c95-4494-b3a5-34ef709e6838',
    'LIKE'
);

SELECT count(id)
FROM app_user_article_relation

```



```
WHERE article_id='0f87116b-7c95-4494-b3a5-34ef709e6838' AND relation_type='LIKE'

UPDATE article SET like_count = 42 WHERE id = '0f87116b-7c95-4494-b3a5-34ef709e6838';
```

Zmazanie lajku pre článok - Transakcia.

```
DELETE FROM app_user_article_relation
  WHERE article_id='0f87116b-7c95-4494-b3a5-34ef709e6838'
        AND app_user_id='8fd7a41a-cdfd-47be-81ce-bb4039bba4c7'
        AND relation_type='LIKE';

SELECT
  count(id)
FROM app_user_article_relation
WHERE article_id='0f87116b-7c95-4494-b3a5-34ef709e6838' and relation_type='LIKE'

UPDATE article SET like_count = 42 WHERE id = '0f87116b-7c95-4494-b3a5-34ef709e6838';
```

Získanie počtu článkov.

```
SELECT COUNT(id) FROM article;
```

Získanie rebríčku najlepších vydavateľstiev.

```
SELECT * FROM (
  SELECT p.name,
         p.id,
         sum(a.like_count) as likes
  FROM publisher p
       JOIN article a ON p.id = a.publisher_id
  GROUP BY p.id
) AS p
ORDER BY likes DESC;
```

Získanie základných údajov o publisherovi pomocou UUID.

```
SELECT *
FROM (
  SELECT p.id,
         p.created_at,
         p.name,
         sum(a.like_count) AS likes,
         row_number() OVER (ORDER BY sum(like_count) DESC) AS rn
  FROM publisher p
       JOIN article a ON p.id = a.publisher_id
  GROUP BY p.id
) AS p
WHERE id='0f87116b-7c95-4494-b3a5-34ef709e6838';
```

Autentifikácia užívateľa.

```
SELECT
```

```
id
FROM app_user
WHERE user_name = 'fiona.watsica.0' AND
password_hash =
'56b1db8133d9eb398aabd376f07bf8ab5fc584ea0b8bd6a1770200cb613ca005';
```

Kontrola existencie užívateľského mena.

```
SELECT COUNT(1)
FROM app_user
WHERE user_name = 'fiona.watsica.0';
```

Registrácia užívateľa.

```
INSERT INTO app_user (id, created_at, state, updated_at, first_name, last_name,
password_hash, user_name)
VALUES (
    '648c8f76-897a-4dc7-81c1-967196ee06af',
    '2020-04-13 19:01:03.533578',
    'ACTIVE',
    '2020-04-13 19:01:03.533578',
    'jozko',
    'mrkvicka',
    '56b1db8133d9eb398aabd376f07bf8ab5fc584ea0b8bd6a1770200cb613ca005',
    'jozko_mrkvicka_123'
)
```

Získanie ID roly 'čitateľa'.

```
SELECT id
FROM role
WHERE name = 'reader'
```

Priradenie role užívateľovi pomocou zápisu do bindovacej tabuľky.

```
INSERT
INTO app_user_roles (app_user_id, roles_id)
VALUES (
    '648c8f76-897a-4dc7-81c1-967196ee06af',
    '8fd7a41a-cdfd-47be-81ce-bb4039bba4c7'
)
```

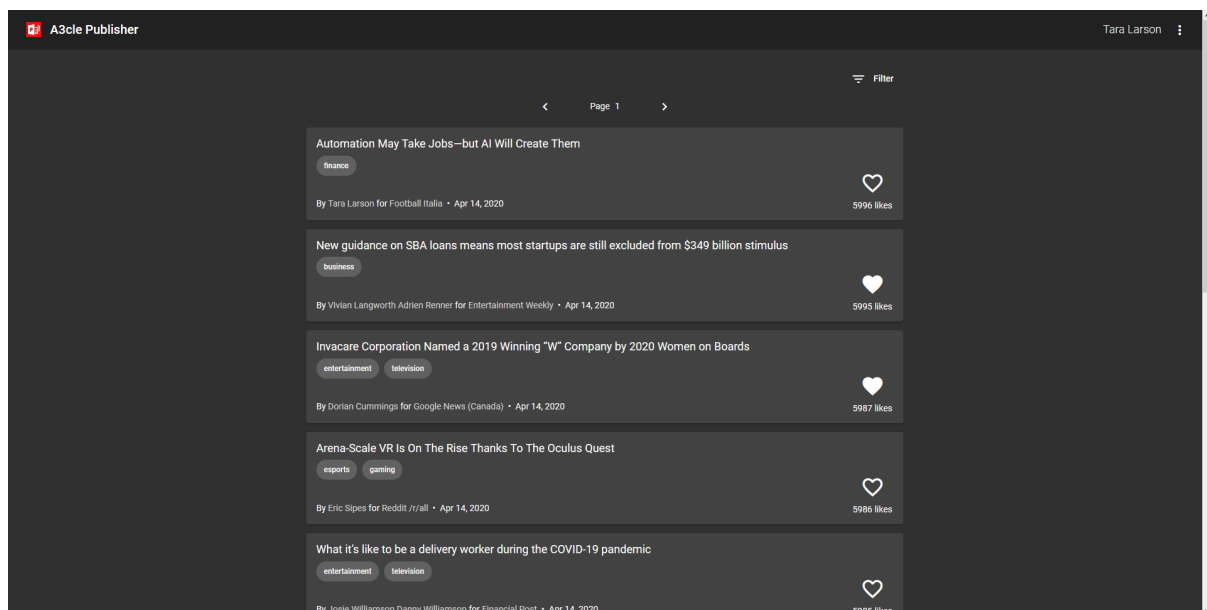
Získanie ID autorov a ID publisherov pre daný článok.

```
SELECT
  p.id as p_id,
  au.id as au_id
FROM article a
  JOIN publisher p on a.publisher_id = p.id
  JOIN app_user_article_relation auar on a.id = auar.article_id and
  auar.relation_type='AUTHOR'
  JOIN app_user au on auar.app_user_id = au.id
WHERE a.id='8fd7a41a-cdfd-47be-81ce-bb4039bba4c7';
```

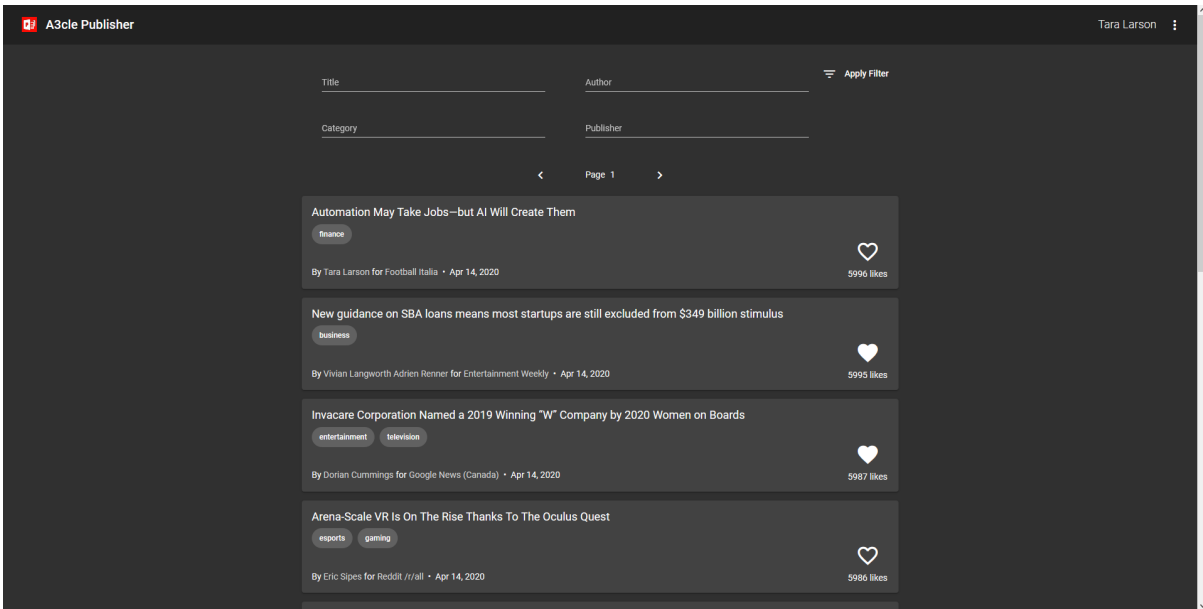
Používateľské rozhranie

Používateľské rozhranie aplikácie je implementované na webovej platforme s použitím Angular frameworku.

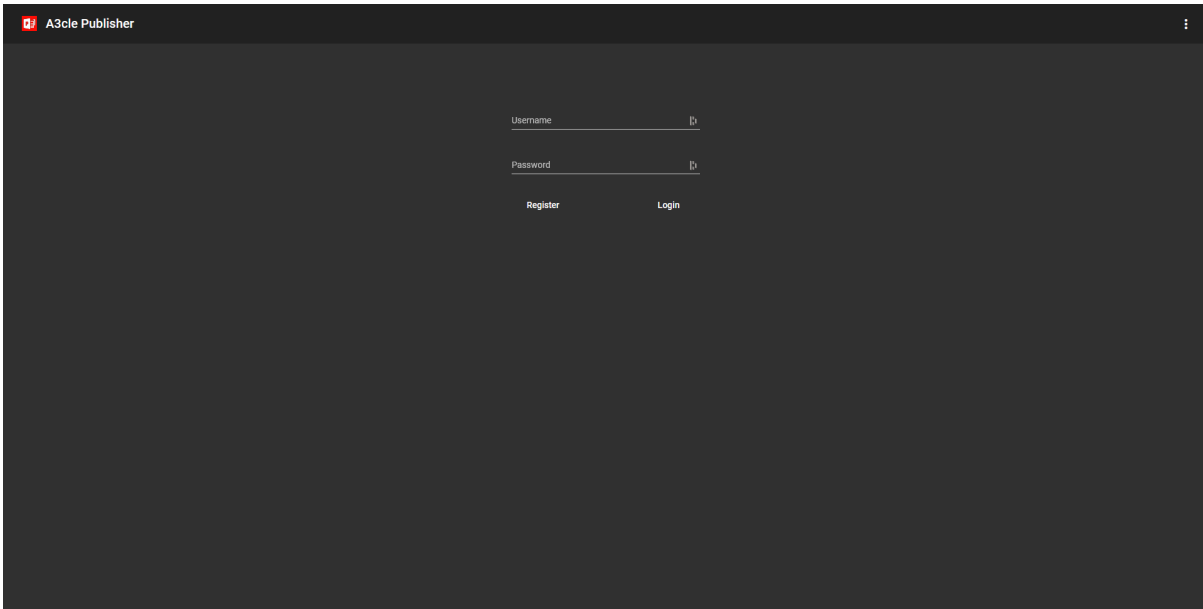
[Zobrazenie všetkých článkov](#)



Filtrovanie článkov:



Prilásenie



[Registrácia užívateľa](#)

[illegible]

Podrobné zobrazenie jedného článku, Komentovanie článku, "Lajknutie" článku

A3cle Publisher

Tara Larson

Coronavirus: What's the latest with Brexit and other big stories?

Europe

News

5902 likes

Image copyrightAFPImage caption In Syria, which recorded its first coronavirus death in late March, the war has entered its 10th year Over the past few months, the coronavirus pandemic has sucked up all the oxygen of the news cycle. There hasn't been an ex- Qui necessitatibus excepturi dolore ut quisquam illo voluptas. Sed quia ratione nisi non, Corporis distinctio eaque sit voluptas praesentium et labore, Ipsam omnis autem rerum atque facilis, Dolorum labore et et veritatis voluptates. Atque beatae praesentium. Aut quos exercitationem perspicatis aliquid ipsam voluptas quasi. Id alias odit qui cupiditate veniam voluptas nam. Animi pariatur et dolores ea totam et pariatur. Nesciunt sed commodi, Quia consectetur quisquam et et. Iste culpa voluptatum ad et quisquam a. Officis enim fugiat. Sed illo debitis omnis tempore amet quod. Optio ratione soluta. Ut iusto at fugit et recusandae. Dolor repudiandae consectetur. Et inventore sint officia ipsa dolor. Deserunt ut error ad ex quae aliquam. Dolorem totam dolorem. Impedit eligendi dolorem qui. Occaecati aut qui nostrum atque cum eos. Unde eos iusto ut. Quod a dignissimos quisquam iste odio quibusdam. Tenetur quaerat est adipisci qui. Accusamus nisi laboriosam voluptatem laboriosam architecto ea. Exercitationem sunt veniam labore aut soluta dolores. Commodi magnam qui optio corrupti nesciunt. Dolorem laboriosam necessitatibus illum consequatur at. Est recusandae dolorem saepe aut dolores itaque quos. Consequatur quas consectetur minus rerum reiçndis iusto.

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Comments

Boris McLaughlin says:

It's fine, everything is fine. There's an infinite number of realities Morty and in a few dozen of those I got lucky and turned everything back to normal.

Myrtle Berge says:

Don't even trip dawg.

Say something

Add Comment

Publikácia a úprava článku

[illegible]

Zobrazenie profilu

A3cle Publisher

Tara Larson

Name : Tara Larson
Registered : Apr 14, 2020
Roles : reader writer publisher_owner

< Page 1 >

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Zobrazenie rebríčku najlepších Publisherov

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7	News.com.au	7319
8	CNN	7067
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11	CBC News	6301
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Zobrazenie kolekcie článkov

Collections

Top Publishers

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Dominikov zoznam clankov

Ahojte, ja som Dominik a toto je zoznam mojich najobľúbenejších článkov :)

Help Researchers Track COVID-19 Spread With This App

covid-19 healthcare

By Alanna Zboncak Lizzie Lang for Google News (India) • Apr 15, 2020

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covid-19 healthcare

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By Randall Reichert Roxane Price for New Scientist • Apr 15, 2020

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news

By Schuyler Russel for Football Italia • Apr 15, 2020

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Zobrazenie všetkých článkov.

- **Verzia:** v1.0
- **Scénár:** 1
- **Milestone:** [Prvé odovzdanie](#)

Po načítaní stránky sa anonymnému používateľovi zobrazí stránkovaný zoznam článkov. Vedľa každého článku sa nachádza informácia o čase vydania článku a o jeho autorovi.

- **Verzia:** v2.0
- **Scénár:** 1
- **Milestone:** [Druhé odovzdanie](#)

Články sa zobrazujú iba prihláseným užívateľom. Je implementované stránkovanie. Články sa dajú filtrovať podľa názvu článku, autora, kategórie a vydavateľstva. Pri každom článku sú zobrazené základné informácie o ňom. Články sa zoradujú podľa počtu lajkov. Jednotlivé články môžu užívatelia likeovať.

Prihlásenie

- **Verzia:** v1.0
- **Scénár:** 2
- **Milestone:** [Druhé odovzdanie](#)

Používateľ je schopný sa prihlásiť do svojho účtu pomocou užívateľského mena a hesla.

- **Verzia:** v2.0
- **Scénár:** 2
- **Milestone:** [Finálne odovzdanie](#)

Nahradenie SQL-kveráčou pomocou ORM.

Registrácia užívateľa

- **Verzia:** v1.0
- **Scénár:** 3
- **Milestone:** [Druhé odovzdanie](#)

Nezaregistrovaný užívateľ je schopný si vytvoriť užívateľské konto s rolou čitateľa.

- **Verzia:** v2.0
- **Scénár:** 3
- **Milestone:** [Finálne odovzdanie](#)

Nahradenie SQL-kveráčou pomocou ORM.

Podrobné zobrazenie jedného článku

- **Verzia:** v1.0
- **Scénár:** 4
- **Milestone:** [Prvé odovzdanie](#)

Podrobné zobrazenie jedného článku.

- **Verzia:** v2.0
- **Milestone:** [Druhé odovzdanie](#)

Podrobné zobrazenie jedného článku. Zobrazovanie počtu lajkov, možnosť lajknúť článok. Zobrazovanie a možnosť komentovania jednotlivého článku.

Publikácia a úprava článku

- **Verzia:** v1.0
- **Scénár:** 5
- **Milestone:** [Druhé odovzdanie](#)

Zverejnenie článku a pridanie jednotlivých metadát k danému článku. Autor článku má možnosť svoj článok kedykoľvek upraviť.

Komentovanie článku

- **Verzia:** v1.0
- **Scénár:** 6
- **Milestone:** [Druhé odovzdanie](#)

Čitateľ vie komentovať článok.

"Lajknutie" článku

- **Verzia:** v1.0
- **Scénár:** 7
- **Milestone:** [Druhé odovzdanie](#)

Čitateľ môže kladne ohodnotiť prečítaný článok lajkom.

Zobrazenie profilu

- **Verzia:** v1.0
- **Scénár:** 8
- **Milestone:** [Druhé odovzdanie](#)

Užívateľ si je schopný zobraziť profily jednotlivých autorov a vydavateľstiev, kde nájde zoznam nimi napísaných článkov.

Kolekcie článkov

- **Verzia:** v1.0
- **Scénár:** 9
- **Milestone:** [Finálne odovzdanie](#)

Prihlásený používateľ môže zaradiť ľubovoľný článok do jednej zo svojich kolekcií, poprípade vytvoriť novú kolekciu. Kolekcie sú verejné, čiže ostatní užívatelia si môžu jednotlivé kolekcie zobrazovať a čítať články, ktoré sú ich súčasťou. Tento scenár je implementovaný pomocou ORM.