pa

PA: Product and Presentation

The Popcorn Post aims to be the go-to collaborative news platform where cinema and entertainment enthusiasts actively engage, share, and explore their passion while fostering a trusted and vibrant community.

A9: Product

The goal of this artifact is to provide a concise overview of the completed product, covering usage, application help, input validation, accessibility and usability, HTML & CSS validation, and implementation details. It also includes an installation guide for local deployment, as well as user credentials.

The Popcorn Post is a dynamic collaborative news platform designed for cinema and entertainment enthusiasts. In this platform, you can engage in vibrant discussions, create compelling news articles, and explore trending tags. The Popcorn Post provides a seamless and interactive environment for entertainment enthusiasts to share, learn, and connect.

1. Installation

Link to the release with the final version of the source code in the group's Git repository: PA

Docker command to start the image available at the group's GitLab Container Registry using the production database:

```
docker run -it -p 8000:80 --name=lbaw2356 -e DB_DATABASE="lbaw2356" -e DB_SCHEMA="lbaw2356" -e DB_USERNAME="lbaw2356" -e DB_PASSWORD="
```

2. Usage

The final product is available online here.

2.1. Administration Credentials

Administration URL: Administration

Email	Password
jessica.pearson@popcornpost.com	1234
harvey.specter@popcornpost.com	1234

2.2. User Credentials

Type	Email	Password
basic member account	donna.paulsen@popcornpost.com	1234
news contributor	donna.paulsen@popcornpost.com	1234
comment contributor	donna.paulsen@popcornpost.com	1234
blocked account	louis.litt@popcornpost.com	1234

3. Application Help

In the application interface, various elements have been strategically implemented to assist users in navigating, troubleshooting, and understanding the system. Here's a breakdown of the different help features:

Input Error Messages

When users encounter input errors while interacting with the application, a helpful feature has been incorporated to guide them through the resolution process. These error messages, as illustrated in Figure 1, provide clear and concise feedback on what went wrong and offer guidance on how to rectify the issue. For instance, if a user submits a form with missing or invalid information, they will receive a specific error message pointing out the problematic fields and suggesting corrections.

Figure 1: Input Error Messages.

Success Messages

On the flip side, the application reinforces positive interactions by displaying success messages upon the successful completion of tasks. These messages, as depicted in Figure 2, confirm to users that their actions were executed successfully. Whether it's submitting a form, updating information, or other, users receive visual confirmation that their task was completed without any issues.

Figure 2: Success Message.

Contextual Help Clues

To enhance user understanding and provide context-sensitive assistance, the application incorporates contextual help clues. As shown in Figure 3, users can access further information about different available actions within the platform.

Figure 3: Contextual Help Clue.

Sitemap Page

For a comprehensive overview of the application's structure and navigation, the Sitemap Page, as depicted in Figure 4, serves as a valuable resource. Users can refer to this page to understand the organization of the application, making it easier for them to locate specific sections or functionalities.
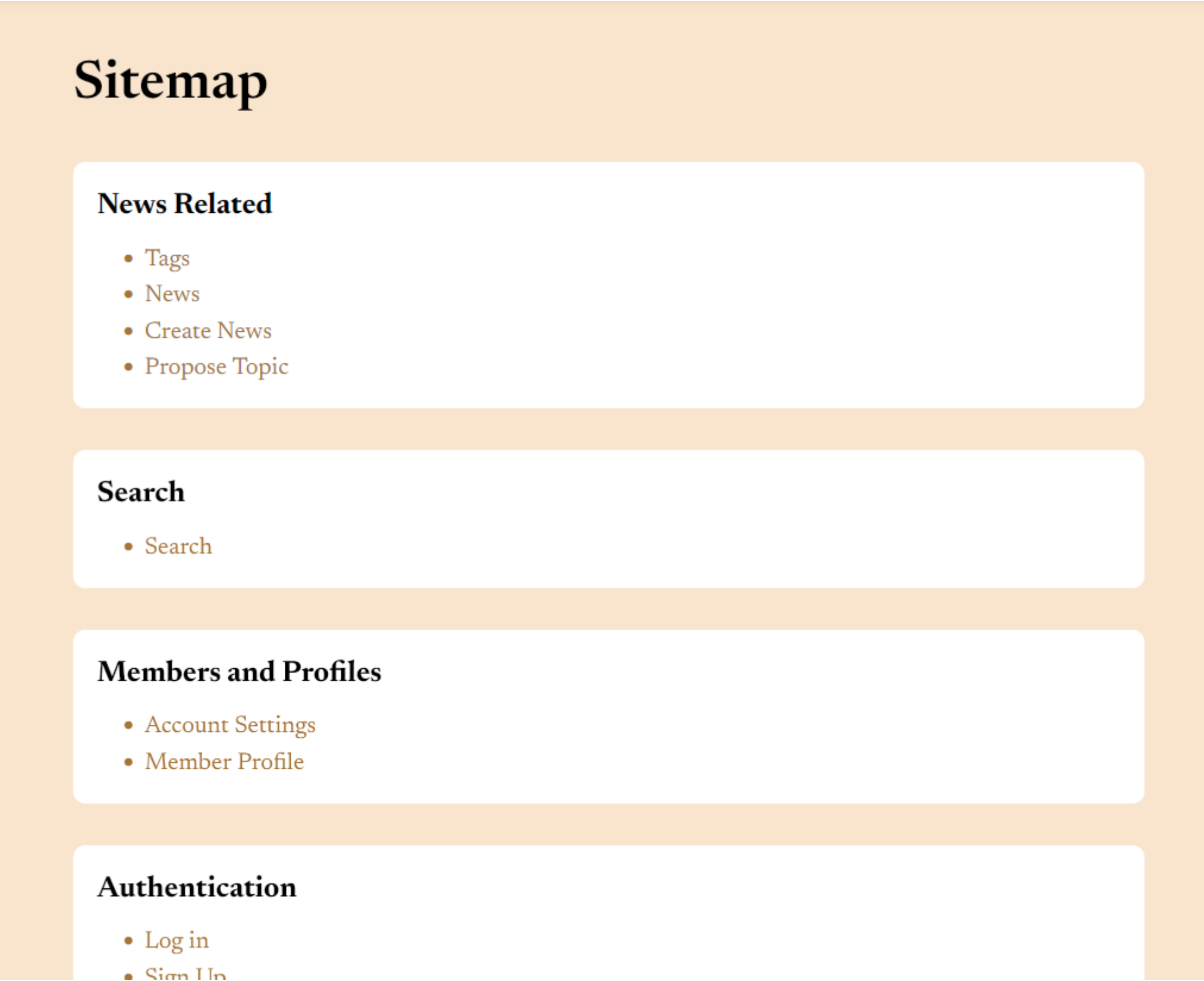

Figure 4: Sitemap Page.

Contacts Page

In instances where users require direct assistance or have specific inquiries, the Contacts Page, showcased in Figure 5, serves as a hub for relevant contact information. Whether it's reaching out for technical support, providing feedback, or seeking clarification, users can find the necessary contact details on this page.

Figure 5: Contacts Page.

4. Input Validation

Input validation is implemented at both the client and server levels for a robust data integrity strategy.

Client-Side Validation:

Type Attributes: Specify input types like "email" or "password" to ensure proper format.

Required Attribute: Flag mandatory fields with the "required" attribute to prompt user completion.

```
<input id="email" type="email" name="email" value="{{ old('email') }}" required>
```

```
<input id="password" type="password" name="password" required>
```

Server-Side Validation (Using Laravel):

Laravel Validate Method: Define rules for input fields to comprehensively validate incoming requests.

```
$validatedData = $request->validate([
    'user_email' => 'required|email',
    'user_password' => 'required|min:8',
]);
```

Custom Regular Expressions: Use custom regex for specific validation needs (e.g., password specifications), along with custom error messages that would otherwise be unattainable with the Laravel Validate Method.

```
if (!preg_match('/[a-z]/', $password)) {
    return redirect()->back()->withInput()->withErrors([
        'password' => 'Password must contain at least one lowercase letter.'
    ]);
}
```

This dual-layer approach ensures a secure and user-friendly system, preventing both inadvertent errors and malicious input.

5. Check Accessibility and Usability

The results of the accessibility and usability tests can be found in the following links:

- [Accessibility](#)

- [Usability](#)

6. HTML & CSS Validation

The results of the validation of the HTML and CSS code can be found in the following links:

- [HTML Home Page](#)

- [HTML News Article Page](#)

- [HTML Search Page](#)

- [HTML Administration Page](#)

- [CSS](#)

7. Revisions to the Project

Revisions made to the project since the requirements specification stage:

- **ER:**

  - Added a detailed explanation of the roles of the News Contributor and the Comment Contributor
  - Improved the artefact's description
  - Specified that the OAuth API is provided by Google
  - Split Search for News Items and Search for Comments into two user stories (US007 and US008)
  - Updated the Sitemap to comply with the most recent structure (changes to General Information Pages, Administration Pages and News Related Pages)

- **EBD:**

  - Fixed the data anonymization trigger (data_anonymization)
  - Fixed the Member-Edit association name in the UML class diagram
  - Repopulated the database with more data
  - Added the remember password token (remember_token) and the Google ID (google_id) fields to the Member table
  - Added a trigger to remove a member's unblock appeal once that member is unblocked (delete_appeals)

- **EAP:**

  - Removed a duplicate of an implemented user story
  - Changed the logout route to be a POST method
  - Added routes to the tag page, topic suggestions, Google authentication, file upload and unblock appeals

8. Implementation Details

8.1. Libraries Used

- [Laravel](#)

  - **Description:** Server-side framework for building web applications.
  - **Usage in Product:** Laravel is the core framework for handling server-side logic, routing, and database interactions.

- [Bootstrap Icons](#)

  - **Description:** Icons and button styling from the Bootstrap framework.
  - **Usage in Product:** Bootstrap Icons are used for consistent iconography and button styling.

- [FontAwesome](#)

  - **Description:** Icon library providing a wide range of icons.
  - **Usage in Product:** FontAwesome icons are utilized for various elements throughout the user interface.

- [Pusher](#)

  - **Description:** Service for real-time interaction with users.
  - **Usage in Product:** Pusher is integrated into the notification system to provide real-time updates to users.

- [Mailtrap.io](#)

  - **Description:** Service for sending emails via Email API/SMTP and testing.
  - **Usage in Product:** Mailtrap.io is used for sending emails, especially in the user password recovery system.

- [Filepond](#)

  - **Description:** Library for managing file uploads, especially images.
  - **Usage in Product:** Filepond is utilized for effective management of image uploads.

- [TailwindCSS](#)

  - **Description:** Front-end development framework focusing on utility-first CSS.
  - **Usage in Product:** TailwindCSS is the primary framework for styling the front-end, providing a utility-first approach.

- [Socialite](#)

  - **Description:** Laravel package for authentication with social networks.
  - **Usage in Product:** Socialite is used for Google authentication within the Laravel application.

8.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US001	View Top News	M02: Content Items	High	**Marco Costa**	100%
US002	View News Items	M02: Content Items	High	**Marco Costa**	100%
US003	Exact Match Search	M07: Search	High	**João Ramos**	100%
US004	Full-Text Search	M07: Search	High	**João Ramos**	100%
US005	View Recent News	M02: Content Items	Medium	**Marco Costa**	100%
US006	View News Item Comments	M02: Content Items	Medium	**Marco Costa**	100%
US007	Search for News Items	M07: Search	Medium	**João Ramos**	100%
US008	Search for Comments	M07: Search	Medium	**João Ramos**	100%
US009	Search Over Multiple Attributes	M07: Search	Medium	**João Ramos**	100%
US010	Search Filters	M07: Search	Medium	**João Ramos**	100%
US011	Placeholders In Form Inputs	All Modules	Medium	**Tiago Viana**, Marco Costa, João Ramos, Diogo Gomes	100%
US012	Contextual Error Messages	All Modules	Medium	**Tiago Viana,** João Ramos	100%
US013	Contextual Help Clues	All Modules	Medium	**João Ramos,** Tiago Viana	100%
US014	'About US' Section	M08: Member Administration and Static Pages	Medium	**Diogo Gomes**	100%
US015	Main Features Section	M08: Member Administration and Static Pages	Medium	**Diogo Gomes**	100%
US016	Contact Information	M08: Member Administration and Static Pages	Medium	**Diogo Gomes**	100%
US017	Order Search Results	M07: Search	Low	**João Ramos**	100%
US018	Related News	M02: Content Items	Low	**Tiago Viana**	100%
US019	Same Author News	M02: Content Items	Low	**Tiago Viana**	100%
US020	View Tag Page	M03: Votes and Tags	Low	**Tiago Viana**	100%
US021	Search for Tags	M07: Search	Low	**João Ramos**	100%
US022	Search for Users	M07: Search	Low	**João Ramos**	100%
US023	Order comments	M02: Content Items	Low	**Marco Costa**	100%
US024	Trending Tags	M02: Content Items	Low	**Tiago Viana**, Marco Costa	100%

US Identifier	Name	Module	Priority	Team Members	State
US101	Login	M01: Authentication and Individual Profile	High	**João Ramos**	100%
US102	Register	M01: Authentication and Individual Profile	High	**João Ramos**	100%
US103	Recover Password	M01: Authentication and Individual Profile	Medium	**João Ramos**	100%
US104	Login with Google Account	M01: Authentication and Individual Profile	Low	**João Ramos**	100%
US105	Register with Google Account	M01: Authentication and Individual Profile	Low	**João Ramos**	100%
US201	Logout	M01: Authentication and Individual Profile	High	**João Ramos**	100%
US202	View News Item Details	M02: Content Items	High	**Marco Costa**	100%
US203	Member News Feed	M02: Content Items	High	**Marco Costa**	100%
US204	View Other Members' Profiles	M01: Authentication and Individual Profile	High	**Tiago Viana**	100%
US205	View Profile	M01: Authentication and Individual Profile	High	**Tiago Viana**	100%
US206	Edit Profile	M01: Authentication and Individual Profile	High	**Tiago Viana**	100%
US207	Create News Items	M02: Content Items	High	**Diogo Gomes**	100%
US208	Comment on News Items	M02: Content Items	Medium	**Marco Costa**	100%
US209	View Comment Details	M02: Content Items	Medium	**Marco Costa**	100%
US210	Vote on News Items	M02: Content Items	Medium	**Diogo Gomes**	100%
US211	Vote on Comments	M03: Votes and Tags	Medium	**Diogo Gomes**	100%
US212	View Reputation of Other Members	M05: Members	Medium	**Tiago Viana**	100%
US213	View News Item Tags	M03: Votes and Tags	Medium	**Marco Costa**	100%
US214	Follow/Unfollow Members	M05: Members	Medium	**Tiago Viana**	100%
US215	Follow/Unfollow Tags	M03: Votes and Tags	Medium	**Tiago Viana**	100%
US216	Upvote Notifications	M06: Notifications	Medium	**Marco Costa**	100%
US217	Comment Notifications	M06: Notifications	Medium	**Marco Costa**	100%
US218	Delete Account	M01: Authentication and Individual Profile	Medium	**Tiago Viana**	100%
US219	Profile Picture	M01: Authentication and Individual Profile	Medium	**Tiago Viana**	100%
US220	View Personal Notifications	M06: Notifications	Medium	**Marco Costa**	100%
US221	Propose New Topics	M04: Topics	Low	**Tiago Viana**	100%
US222	Add/Remove News Items from Favorites	M02: Content Items	Low		0%
US223	Report Members or Content	M05: Members	Low		0%

US Identifier	Name	Module	Priority	Team Members	State
US224	Appeal for Unblock	M08: Member Administration and Static Pages	Low	**Tiago Viana**	100%
US225	Reputation Based Tiers	M05: Members	Low		0%
US226	Reply to Article Comments	M02: Content Items	Low	**Marco Costa**	100%
US227	Comments Tab on Members' Profile	M01: Authentication and Individual Profile	Low	**Tiago Viana**, Marco Costa	100%
US228	"Following" Section	M01: Authentication and Individual Profile	Low	**Tiago Viana**	100%
US301	Edit News Items	M02: Content Items	High	**Diogo Gomes**	100%
US302	Delete News Items	M02: Content Items	High	**Diogo Gomes**	100%
US303	Highlight Person/Movie	M02: Content Items	Low		0%
US401	Edit Comments	M02: Content Items	Medium	**Marco Costa**	100%
US402	Delete Comments	M02: Content Items	Medium	**Marco Costa**	100%
US501	Administer Member Accounts	M08: Member Administration and Static Pages	High	**Tiago Viana**	100%
US502	Manage Topic Proposals	M04: Topics	Medium	**Tiago Viana**	100%
US503	Admin Account Privileges	M08: Member Administration and Static Pages	Medium	**Tiago Viana**	100%
US504	Block/Unblock Member Accounts	M08: Member Administration and Static Pages	Medium	**Tiago Viana**	100%
US505	Delete Member Accounts	M08: Member Administration and Static Pages	Medium	**Tiago Viana**	100%
US506	Manage Content and Member Reports	M08: Member Administration and Static Pages	Low		0%
US507	Administration Dashboard Statistics	M08: Member Administration and Static Pages	Low	**Tiago Viana**	100%
US508	Manage Topics	M08: Member Administration and Static Pages	Low	**Tiago Viana**	100%
US509	Edit History	M02: Content Items	Low		0%
US510	Manage Tags	M08: Member Administration and Static Pages	Low	**Tiago Viana**	100%

A10: Presentation

The goal of this artifact is to present the final product. It includes a brief presentation of the product and its main features, as well as a video presentation of the working website.

1. Product presentation

The Popcorn Post is a dynamic news-sharing platform where members are encouraged to contribute, discover, and engage with a variety of news articles on diverse topics. The platform's easy-to-use interface allows users to create and curate content, fostering a sense of community and enabling compelling discussions. The Academy Score rating system ensures content quality along the platform and serves as a popularity indicator for news articles, comments and members.

At the core of The Popcorn Post is a tagging system that guarantees content relevance, making it easy for members to explore diverse themes and join discussions on matters that are trending or that they are interested in. The voting feature allows the community to collectively assess content quality, and the administration features facilitate member and content management. With personalized feeds, based on the members and the tags a user follows, the platform is designed to offer a tailored user experience, emphasizing community-driven content curation.

URL to the product: https://lbaw2356.lbaw.fe.up.pt

2. Video presentation

Link to the lbaw2356.mp4 file
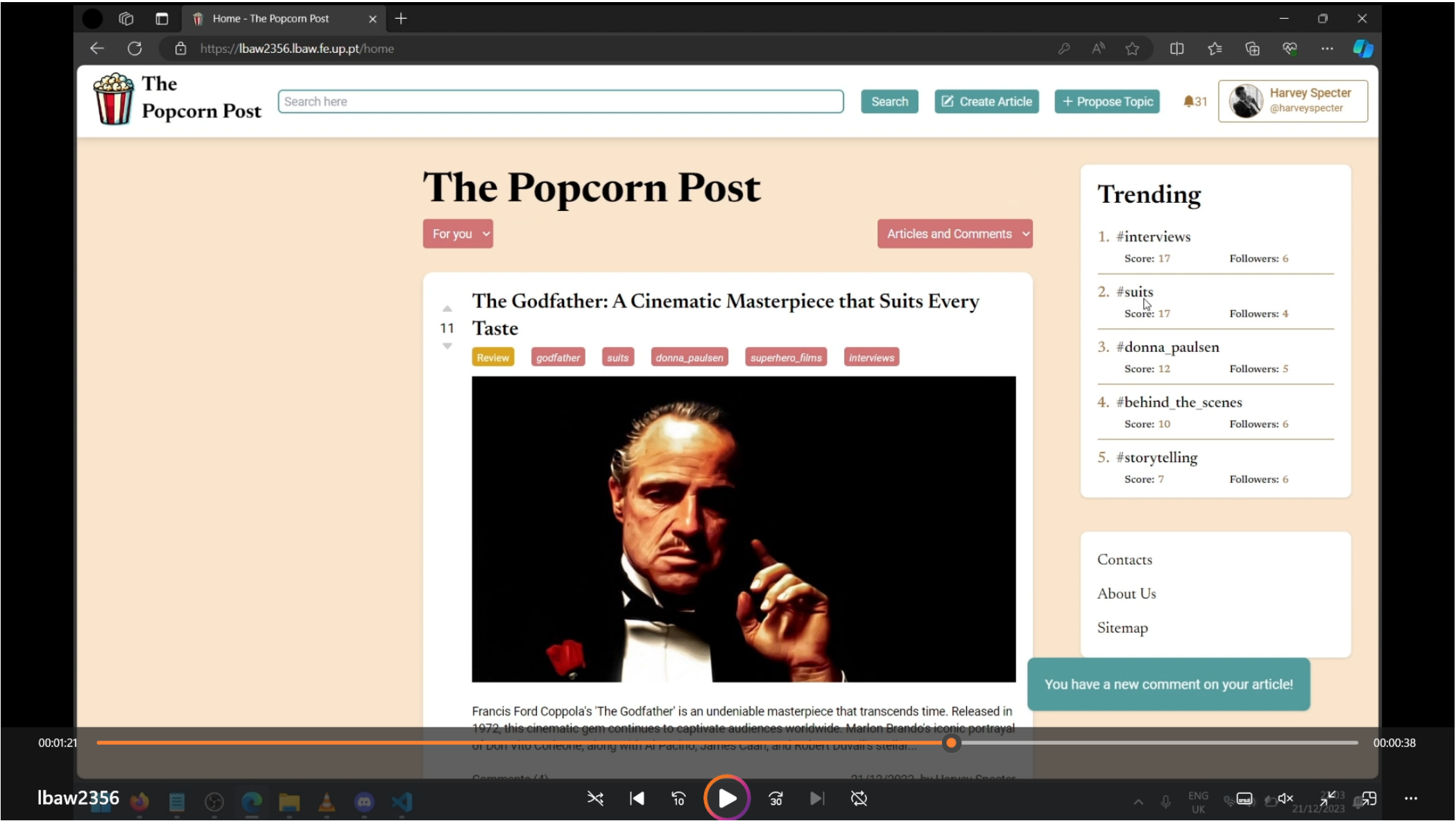
Revision history

Changes made to the first submission:

1. ...

GROUP2356, 21/12/2023

- Tiago Filipe Castro Viana, up201807126@up.pt (Editor)
- João Filipe Oliveira Ramos, up202108743@up.pt
- Marco André Pereira da Costa, up202108821@up.pt
- Diogo Alexandre Figueiredo Gomes, up201905991@up.pt