

A Project Proposal to implement an Interactive Technical News Web App

Aravindhnan Eswaran

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Submitted to—

Professor Jose Annunziato

Computer Science department

Northeastern University

Project description:

The objective of the project is to execute an interactive technical news web app that enables users to enjoy the trending news. The webpage can be used by online readers and managed by admin. The reader can get the top trending news from New York times, trending tweets from Twitter, newsfeeds from CNN, techcrunch and trending videos from youtube in all specified fields. The reader can go through the article, save the link in users profile and also participate in discussion forum to comment and see others comments on the specific article. The user can manage the profile page. The admin can manage the admin page.

The user experience should remain smooth and simple. The design is aimed to have high-end, pleasant and clean website. The web app will be developed on Node.js. The major web technologies used to build the web page will be W3C, HTML, JavaScript, CSS, JSON, and MongoDB. The high level features of the website include:

1. Creating an account: Register and Login as admin or user
2. Access news pages of technical websites, participate in discussion forum and add blogs using wordpress
3. Save/Bookmark favorite links for later read
4. Include notes for specific article for better understanding
5. Admin can access the details of the enabling addition of users, deletion of users and can view the login details of the website users
6. Participate in discussion forum by commenting and replying to previous comments

DETAILS PROVIDED FOR USER:

- A) Latest trend searches related to reviews and discussions in face book, quora and twitter
- B) Trending posts from various technical websites

DETAILS FOR ADMIN

- A) Uploading videos, articles and newsfeeds
- B) Providing reader requested information

- C) Updating the discussion forum with suitable feedback and reasoning out the queries
- D) Based on the searches, post trend charts and graphs
- E) Interact with the reader while searching through live chat

Actors: User (Reader) and admin

The User is the one whose goal is to read, review, share and comment on trending news, videos and tweets and can save the favorite articles for further reference. The admin is the one who manages the user profiles, upload any new videos, give access for a new user, solve the queries of the webpage related issues and send emails regarding latest updates

Use case analysis

1. News-topic selection
 - a. From the list of varied technical fields, the user can choose a specific topic of his interest
 - b. All the trending news, videos and tweets related to the chosen topic will be displayed for user's selection
 - c. If the user is interested in few specific topics, that particular topic can be saved in the profile page
 - d. Based on repetitive searches on the same topic, the keywords get saved in the profile page of the user
 - e. Each article or news can be viewed in news page and the user can save the links, take the snapshot of a particular part of the article and save it in the profile page for easy access in future
 - f. Any image or video related to the trending news will be displayed along with the article
2. YouTube Search videos:
 - a. If the user is interested in viewing trending YouTube videos in their interested field, the keyword can be typed and the latest trending videos related to the topic will be displayed
 - b. After the video being displayed, the user can save the YouTube video link to the profile page for later read or to the favorite link for future reference
 - c. Similarly, the trending news in CNN and TechCrunch can also be searched and viewed.
3. Admin Action
 - a. Manages the page containing all the user profiles
 - b. The admin can edit the details of the user, delete an user if reported fake, send email to an/all users to intimate any up gradation in the website
 - c. The admin will be able to record the number of times the user has logged in and the websites viewed by the user
 - d. If new registration form is submitted by the user, the admin has to ensure whether all the details entered are legal and send a login confirmation mail to the new user

4. Discussion forum:
 - a. The discussion forum using Word press and Disqus enables the user to manage our blogs/comments about a specific article
 - b. The user can share the comments on the article and reply to previous comments given by a guest user
 - c. Specific users can form new groups based on each others common interests
 - d. The user can follow a specific topic or a user based on their personal interest

5. Profile page customization
 - a. The user's profile page can be updated.eg., name details, email address,
 - b. As a Parallel process, the updated details has to be stored in the database and the admin
 - c. The user can also view, edit and delete the previously saved links
 - d. In addition to the saved articles, the user can add a note/comment regarding the article for future reference
 - e. Along with the added comments, the user can view the comments posted by third party about the article