Project Document: Narrate.com

Internee Alina Afghan (June-August 2024)

Overview

Narrate.com is a blogging platform where users can create and publish posts, view insights about their posts, browse a feed of posts from other users, tag their posts, and search for posts by tags. The platform provides a user-friendly experience for both content creators and readers.

Features

1. User Authentication

Registration: Users can sign up with an email address and password.
Login/Logout: Users can log in to their account and log out.
Profile Management: Users can update their profile information including username, bio, and profile picture.

2. Post Management

Create Post: Users can write and publish new posts.
Edit Post: Users can edit their existing posts.
Delete Post: Users can delete their posts.
View Insights: Users can see insights such as views, likes, and comments for their posts.

3. Feed

Browse Feed: Users can browse a feed of posts from other users.
Filter Feed: Users can filter the feed by tags or categories.

4. Tagging

Add Tags: Users can add tags to their posts.
View Tags: Tags are visible on posts and can be clicked to view other posts with the same tag.

5. Search

Search by Tags: Users can search for posts using tags.
Search Results: Users see a list of posts matching their search criteria.

![techlogix logo]

6**: Reactions**

Rate post from 5 stars: Users can rate a post out of five stars.
View post: Users can view a post and have that view logged once for stats.
Comment on post: Users can leave comments on post and view their comments.

User Stories

User Authentication

1. *As a new user,* I want to sign up so that I can create an account.
2. *As a registered user*, I want to log in so that I can access my account.
3. *As a logged-in user,* I want to log out so that I can securely end my session.
4. *As a user*, I want to update my profile information so that it reflects my current details.

Post Management

1. *As a user,* I want to create a new post so that I can share my thoughts or information.
2. *As a user*, I want to delete my post so that I can remove it if I no longer wish to share it.
3. *As a user*, I want to view insights about my post so that I can understand its performance.
4. *As a user*, I want to be able to clearly navigate to view post insights right after viewing my post itself.

Feed

1. *As a user*, I want to browse a feed of posts from other users so that I can discover new content.
2*. As a user*, I want to filter the feed by tags or categories so that I can see posts that interest me.
3. *As a user,* I want to be able to clearly view stats so I can decide which posts to view.
4. *As a user*, I want to be able to open a post directly from my feed if it interests me.

Tagging

1. *As a user*, I want to add tags to my posts so that others can find them based on topics.
2. *As a user,* I want to view tags on posts so that I can click on them to find similar content.

Search

1. *As a user*, I want to search for posts using tags so that I can find content related to specific topics.

2. *As a user*, I want to see a list of posts that match my search criteria so that I can explore relevant content.

Post View

1. *As a user*, I want to be able to leave comments on posts to share my thoughts regarding them.
2. *As a user*, I want to view posts and help the poster understand their audience.
3. *As a user*, I want to be able to rate posts according to how much I liked or disliked their content.

Technical Requirements

Frontend

- **Framework:** React.js
- **State Management**: React Context API and Redux
- **Routing:** React Router Dom
- **Styling**: Shadcn-UI and Tailwind CSS

Backend

- **Framework:** .NET Web API
- **Database**: SQL Server
- **Authentication**: .NET session storage
- **APIs:** RESTful API

Development Plan

Phase 1: Design, Documentation, and Setup

- Create Figma design mockups for the application.
- Develop API documentation and redesign the database schema, including storing post mediums within the post database and considering reactions as redundant.
- Set up the project repository and development environment.

Phase 2: Frontend Development

- Implement user registration, login, and profile management using React.
- Allow users to upload profile pictures and edit their user profiles.

Phase 3: Backend Development

- Implement backend using .NET Web API with Clean Architecture.
- Develop features for creating and deleting posts.
- Implement post insights tracking.
- Use user profile data to gain insights into the audience of posts.

Phase 4: Feed & Tagging

- Create the feed for browsing posts.
- Implement tagging functionality and tag-based filtering.

Phase 5: Search & Final Touches

- Develop search functionality by tags.
- Perform testing and quality assurance.
- Deploy the application to a production environment.