



Department of Artificial Intelligence and Data Science

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Title of the Project

NEWS FEED APP



Problem Identification

- The users don't concentrate on the full content and just want to know what it is.
- Scalability is limited, and the app cannot provide real-time updates or personalized news feeds.
- Absence of advanced features like search, filtering, or user preferences reduces usability and relevance.
- Performance issues may arise due to unoptimized media files.
- The app lacks responsiveness, impacting the user experience on diverse devices.



Objective

The primary objective of the news feed application is to provide users with an organized, user-friendly platform to access and browse news content. It aims to deliver relevant and up-to-date information efficiently while ensuring a visually appealing and responsive interface. The application focuses on enhancing the user experience by offering easy navigation, seamless interaction, and a foundation for future personalization and dynamic content integration.

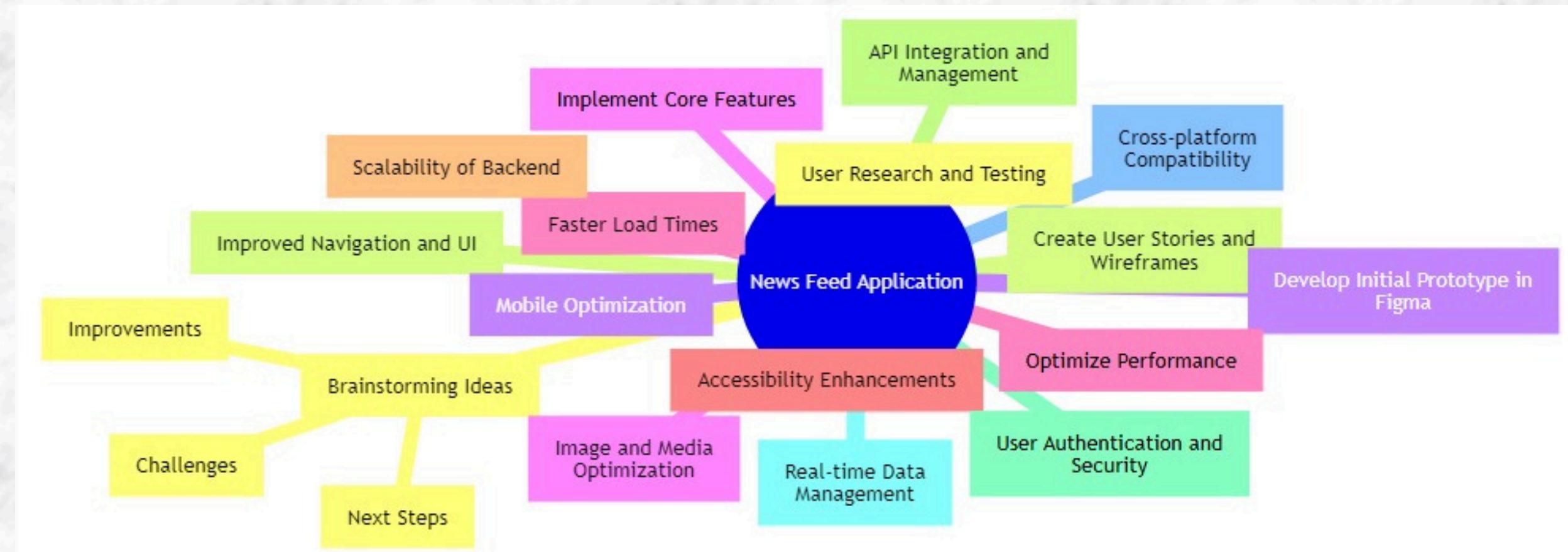


BrainStorming

1. User Interface (UI)
2. User Experience (UX)
3. Personalization
4. Algorithm
5. Feed Aggregation
6. Push Notifications
7. Content Curation
8. Data Security
9. API Integration
10. Real-time Updates
11. Backend Development
12. Frontend Development
13. Machine Learning
14. Data Analytics
15. Scalability
16. User Engagement
17. Content Moderation
18. Subscription Models
19. Social Media Integration
20. Database Management
21. Performance Optimization
22. Mobile Responsiveness
23. User Authentication
24. Feed Customization
25. Ad Monetization



Mind Map





Primary Research

Primary research involves gathering firsthand information directly from potential users to understand their needs and preferences.

- **Surveys and Questionnaires:** *Conducted online surveys to understand user expectations, preferred news categories, and browsing habits.*
- **Interviews:** *One-on-one discussions with target users to identify pain points in existing news feed applications.*
- **User Testing:** *Prototyped and tested the application with a small group to gather feedback on usability, design, and features.*
- **Observation:** *Monitored how users interact with news content on similar platforms to identify gaps in functionality.*



Secondary Research

Secondary research involves analyzing existing data and resources to identify trends and best practices.

- **Market Analysis:** Studied successful news platforms like Google News, Feedly, and Flipboard to identify popular features.
- **Competitor Analysis:** Analyzed competitors to understand their strengths, weaknesses, and unique selling points.
- **Trend Analysis:** Researched the latest trends in digital news consumption, including mobile-first design and AI-powered personalization.
- **Industry Reports:** Reviewed studies on user behavior, such as how people consume news online and factors driving engagement.



Proposed Work

The proposed News Feed Application aims to provide users with a platform for viewing, sharing, and interacting with real-time news. The main objectives are to create a user-friendly, secure, and scalable app that offers personalized content, real-time updates, and an interactive community.

- User Authentication: Secure login and password recovery.
- Personalized News Feed: Dynamic, user-specific content with search and filter options.
- Post Creation: Ability to share text, images, and videos.
- Interactivity: Likes, comments, and notifications for user engagement.
- Responsive Design: Optimized for both desktop and mobile devices.

List of Modules

LOGIN SCREEN

The Login Screen allows users to securely access their accounts. It includes fields for entering credentials like username and password. This module ensures authentication and user verification.

FORGOT PASSWORD SCREEN

The Forgot Password Screen helps users recover their accounts in case they lose access. It provides options like email-based recovery or OTP verification. This module ensures security while making account recovery simple.

HOME SCREEN

The Home Screen displays the main news feed, showcasing articles in an organized layout. It serves as the central hub for accessing news content. This module focuses on usability and visual appeal.

OPTIONS SCREEN

The Side-Bar Screen acts as a navigation menu, allowing users to switch between different sections of the app. It provides quick access to features like settings, categories, or saved articles. This module enhances navigation and accessibility.

POST SCREEN

The Post Screen displays detailed content for selected news articles. It includes the full story, images, and related links. This module ensures an engaging reading experience for users.



Module 1 Description

LOGIN SCREEN

Purpose:

The login screen allows users to access the application by providing their credentials (e.g., username and password).

Use Case:

A user enters their username and password to log in. If the credentials are correct, they are granted access to the app. If the credentials are incorrect, an error message is shown.



Module 2 Description

FORGOT PASSWORD SCREEN

Purpose:

This screen allows users who have forgotten their password to reset it securely.

Use Case:

A user clicks on "Forgot Password," enters their registered email address, and receives a password reset link. The user clicks the link, creates a new password, and can now log in using the new password.



Module 3 Description

HOME SCREEN

Purpose:

The home screen displays the main news feed or content that the user sees after logging in. It serves as the central hub of the app.

Use Case:

A user opens the app and is presented with a personalized news feed. They can scroll through articles, view posts, interact with content, and navigate to other parts of the app (such as notifications, search, and settings).



Module 4 Description

OPTIONS SCREEN

Purpose:

The option screen (side-bar) provides quick navigation to various app features and settings.

Use Case:

A user clicks on the side-bar menu to access options like Profile, Search, Notifications, Settings, and Logout. They can select any option to navigate to the corresponding screen or feature.



Module 5 Description

POST SCREEN

Purpose:

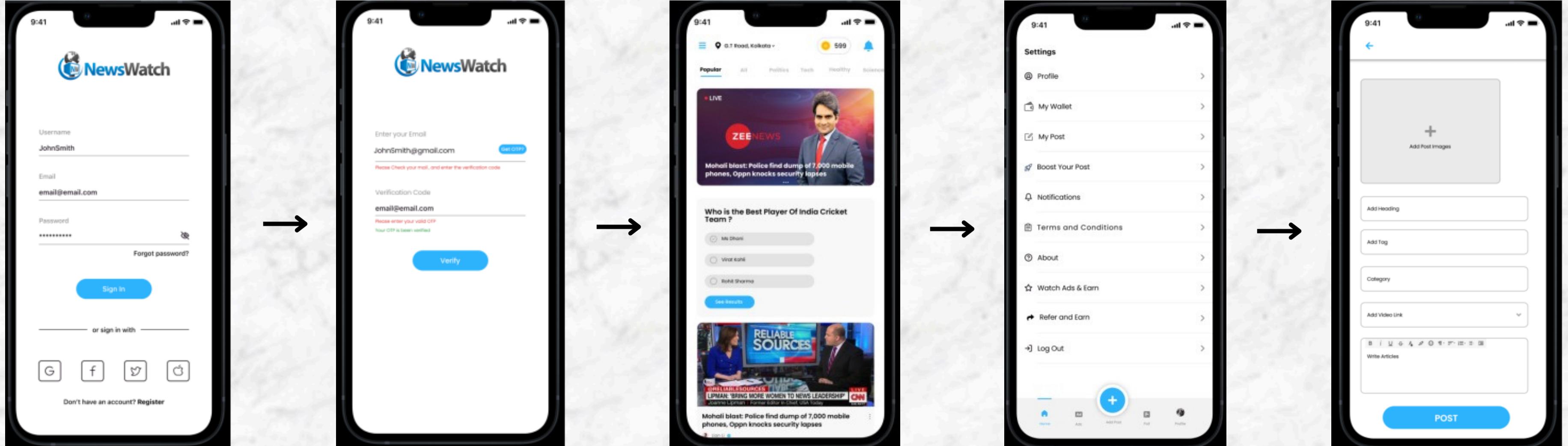
The post screen enables users to create and share new posts, articles, or media with others on the platform.

Use Case:

A user accesses the post screen, types a new post, adds media (images/videos), and shares it. The post is then visible on the home feed for others to view, like, and comment on.



Results





Conclusion

The news feed application serves as a foundational platform for delivering organized and accessible news content to users. With its simple design and user-friendly interface, it provides an efficient way for users to browse and interact with information. While the current version is static and lacks dynamic functionalities, it highlights opportunities for improvement, such as real-time updates, personalization, and advanced features like search and filtering. By addressing these gaps, the application has significant potential to evolve into a scalable, responsive, and engaging platform that meets modern user expectations.



Thank You

ANY QUERIES???