



**SYNOPSIS**

**ON**

**News Aggregator**

Submitted By:

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Submitted To:

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Training and Development

**Title of the Project:**

News Aggregator.

**Objective:**

The objective of the "News Aggregator" project is to create a web-based platform that aggregates and curates news content from various sources, providing users with a centralized and personalized news experience. The platform will aim to deliver relevant and up-to-date news articles to users based on their preferences and interests.

**Scope:**

1. Developing a user-friendly web interface for news consumption.
2. Integrating with various news sources and APIs to gather news articles.
3. Implementing machine learning algorithms for personalization and recommendation.
4. Creating a user registration and profile management system.
5. Implementing social sharing and feedback features.

**Methodology:**

The project will follow an Agile software development methodology, allowing for iterative development and frequent feedback. It will involve the following steps:

1. Requirements Gathering: Gather detailed requirements from stakeholders.
2. Design: Create wireframes and design the user interface.
3. Development: Implement the backend, frontend, and database components.
4. Testing: Conduct thorough testing, including functional and usability testing.
5. Deployment: Roll out the platform for public use.
6. Continuous Improvement: Collect user feedback and make regular updates.

**Proposed System:**

The proposed system is a web-based news aggregator with the following key components:

1. User Registration and Profile Management
2. News Source Integration
3. Personalized News Recommendation
4. Social Sharing and Interaction
5. Feedback and Reporting Mechanisms

## Features:

The key features of the News Aggregator system include:

1. User registration and profile creation.
2. User-specific news recommendations.
3. Categorized news sections (e.g., politics, technology, sports).
4. Social sharing and commenting on news articles.
5. Trending and popular news sections.
6. Search functionality to find specific articles.
7. Notifications for breaking news and personalized updates.

## Implementation Plan:

The implementation plan for the "News Aggregator" project includes the following milestones:

1. Requirements and Design - 2 months
2. Backend and Database Development - 3 months
3. Frontend Development - 3 months
4. Testing and Quality Assurance - 2 months
5. Deployment and Launch - 1 month
6. Ongoing Maintenance and Updates - Continuous

## Team Members:

The project team will consist of the following members:

1. Tigmanshu Mehta(2115001045)
2. Rishabh Sharma(2115000845)
3. Vishal Sharma(2115000000)

## Resources Required:

1. Hardware infrastructure (servers, storage, etc.).
2. Software development tools and licenses.
3. APIs for integrating with news sources.
4. Database management systems.
5. Machine learning and recommendation libraries.
6. Web hosting and domain registration.
7. Skilled developers and designers.
8. Budget for marketing and user acquisition.
9. Ongoing operational and maintenance resources.

## References:

1. "The Lean Startup" by Eric Ries - A reference for principles of agile development and continuous improvement.
2. News API and other relevant news source APIs - Sources for integrating external news content.
3. Python, Django, and ReactJS documentation - References for the technology stack.
4. Machine learning libraries and courses - For implementing personalized news recommendation algorithms.
5. UX/UI design best practices and guidelines - To ensure a user-friendly interface.

**Expected Outcomes:**

1. A fully functional and user-friendly news aggregation platform.
2. Improved user engagement through personalized news recommendations.
3. Enhanced user experience with social sharing and interaction features.
4. Increased user base and user retention.
5. Positive user feedback and reviews.
6. A stable and scalable system for future growth.
7. A comprehensive database of news articles and user preferences.

**Project Supervisor:**

Mrs Gurpreet Kaur

**Conclusion:**

The "News Aggregator" project presents an exciting opportunity to create a valuable platform for news consumption and engagement. By following an Agile methodology, we aim to develop a feature-rich system that not only aggregates news but also personalizes the user experience, making it a go-to source for news content.

Through the careful integration of news sources, machine learning for recommendations, and a user-friendly interface, we expect to achieve our objectives of providing a reliable and engaging news platform. Ongoing maintenance and updates will ensure that the system remains up-to-date and responsive to user needs.

With the commitment of our skilled team members and the allocation of appropriate resources, we look forward to delivering a high-quality "News Aggregator" that meets the expectations of our users and contributes to the evolution of online news consumption. This project is a step toward providing users with a more enriching news experience, and we are excited to see the positive impact it can have on the way people access and engage with news content.