QUICK PRESS

Minor Project-II

(ENSI152)

BACHELOR OF COMPUTER APPLICATION

to

K.R Mangalam University

by

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April 2025

INDEX

1. Introduction

"QUICK PRESS" is a dynamic web-based application designed to serve as an Indian news aggregator. Built using React.js, it fetches and displays the latest headlines from popular English and Hindi news sources through RSS feeds. The application provides users with a simplified news-browsing experience and includes a task manager to improve productivity.

2. Objectives

Aggregate and display headlines from major Indian newspapers.

Support multilingual content (English and Hindi).

Provide live search functionality for filtering news.

Allow users to manage daily tasks via a built-in to-do list.

Ensure a responsive and visually appealing user interface.

3. Technology Stack

: Frontend: React.js

: Styling: Tailwind CSS, Custom CSS

: Data Source: RSS Feeds from:

> \# Times of India

> \# The Hindu

> \# Hindustan Times

> > \# Amar Ujala

> \# Others (Dainik Bhaskar, Jagran, etc.)

Local Storage: For persistent task management

4. Features

News Aggregation: Fetches top 5 headlines from each newspaper via RSS.

Language Categorization: Organizes news into English and Hindi sections.

Search Functionality: Enables real-time filtering of headlines.

To-Do List: Allows users to create, toggle, and delete tasks with persistent storage.

Dark Mode Support: Enhances accessibility and user experience.

Responsive Design: Ensures usability across various device sizes.

5. System Architecture

Component-Based UI: Developed using reusable React components like `NewspaperCard`, `Task`, and `App`.

Data Flow: Headlines are fetched asynchronously using `fetch()` and displayed dynamically.

State Management: Managed using React Hooks (`useState`, `useEffect`).

6. Challenges and Solutions

RSS Fetching Errors: Handled with loading spinners and user-friendly error messages.

DOM Access Issues: Resolved by using `DOMContentLoaded` and React's component lifecycle.

Styling Consistency: Achieved through Tailwind CSS and responsive grid layout.

7. Learnings

Implementing RSS feed integration in a modern frontend stack.

Deep understanding of React state and component management.

Responsive design principles using utility-first CSS (Tailwind).

Client-side data persistence using local storage.

8. Future Enhancements

User authentication and personalization.

Bookmark/save article feature.

Region and topic-based news filters.

Voice-enabled search for headlines.

9.Conclusion

QUICK PRESS successfully demonstrates how modern frontend technologies can be leveraged to build a user-friendly and informative news platform. It serves both as a personal productivity tool and a quick-access hub for daily headlines, with strong potential for future feature expansion.

10. Team Members and Roles

Prince Kumar Sharma : Project Lead and Developer (News Fetching Logic)

Ashish Bhat : UI/UX Designer (Tailwind Layouts & Styling)

VIKRAMJEET SINHA : Feature Developer (To-Do List Integration)

Member 4: Tester and Documentation