

News Wallet – An Authenticated News Journal

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Abstract: General knowledge helps us grow at both personal and academic levels. It narrows our sense of recognizing the world, better understanding and analysing the situation than without proper knowledge. With increasing access to news via smartphones and tablets, it's clear that we need to personalize our interactions with news apps. In this app, we are filling that gap for the lack of interest by giving access to the user for personalized news (the information that is closely related to the user). Having a news app is quite portable to have these days. Features like Live News, podcasts and blogs will be the hook for our app. This paper presents a new app prototype for boosting general knowledge amongst the new generation of India. The proposed prototype is designed on low-resource and mobility concepts.

Keywords: news app, personalization news, news authentication, fake news detection.

1. Objective

The main objective of e-NEWS is that to provide the all type of instant and important news related to business, world, Sports, national, Education etc. Publish news about local region, town, city, state, national and international interests. User can upload news from anywhere, any time through web, mobile, tablets, etc. with registered and verified login id password. Professionally publish news, corporate press releases, or manage other content without technical expertise.

2. Problem Definition

To create an application whose purpose is to categorically divide news according to the user's interest since there are many portals available making it becomes difficult to hold trust over accuracy according to real time. A news portal like ours will have the facility to upload news and media according to one's vicinity in a very professional format that helps to navigate through the news resource helping to understand everything about the occurrence.

3. Literature Review

Marios Constantinides, John Dowell, David Johnson, Sylvain Malacria, "Exploring mobile news reading interactions for news app personalisation" August 2015: The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.

Vipul Kaushik, Kamali Gupta, Gupta Deepali, "React Native Application Development" March 2019: Comprehending a solution to the problem, this paper utilizes the advantages of React-Native which is a framework capable of generating hybrid mobile applications for cross platforms.

Jun Zhang, "Mobile App News Based on Machine Learning Algorithm," October 2022: This paper uses machine learning algorithms to capture the superficial and deep semantic features of words and sentences in English news and comprehensively uses existing methods to express semantic features. The surface and deep parts of English news are analysed and classified by regression calculation.

K. Nagashri, J. Sangeetha "Fake News Detection Using Passive-Aggressive Classifier and Other Machine Learning Algorithms" January 2021: Different classifiers are used for the purpose of identifying fake news. In this paper, Passive-Aggressive Classifier is implemented for this purpose. The approach is implemented on two datasets of fake and real news. After performing the experiment, it is observed that Passive-Aggressive Classifier provides an accuracy of 97.5 percentage. The performance of the proposed model is compared with the existing methods. The Passive-Aggressive Classifier provides the best result compared to others.

Samrat Babar "Text Summarization" October 2013: Text Summarization methods can be classified into extractive and abstractive summarization. An extractive summarization method consists of selecting important sentences, paragraphs etc. from the original document and concatenating them into shorter form. An Abstractive summarization is an understanding of the main concepts in a document and then express those concepts in clear natural language.

Gabor Laszlo Hajba, "For web scraping using Beautiful Soup: Using Beautiful Soup and Scrapy" September 2018: In this paper, we learn how to use Beautiful Soup, a lightweight Python library, to extract and navigate HTML content easily and forget overly complex regular expressions and text parsing

Uma Sharma, Sidarth Saran, Shankar M. Patil "News authentication" June 2020: This paper explains the system which is developed in three parts. The first part is static which works on machine learning classifier. We studied and trained the model with 4 different classifiers and chose the best classifier for final execution. The second part is dynamic which takes the keyword/text from user and searches online for the

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truth probability of the news. The third part provides the authenticity of the URL input by user.

4. Proposed System

Develop an appropriate platform for the new generation who can learn and gain interest in the occurrences around the world. Integrate Machine Learning model within the app to make the users feed relatable making it the reason for the user to be more interactive with the screen that will increase the app-user engagement. We use ML learning model which learns from the

user's geographical location and interests. Using the modern design trend, we make the app UI/UX more interactive and user friendly. Navigation of the user to the upload news section in the app wherein relevant text and media can be added.

5. Proposed Methodology

The primary issue these days is that any news gets viral without any legitimate source leading to much false narration among viewers. Furthermore, people are not aware of their immediate surroundings as compared to international affairs when they follow other popular news portals. The feature of uploading news is user friendly because a prescribed format is provided that needs to be filled according to the occurrence. To create a site that is inspired by the following approaches and hence provides wide range area where user can experience in better way. We are using React-native for project UI development which is a cross-platform development toolkit using this project development environment for user interface. For News Detection Passive Aggressive Classifier is used. NLTK, or Natural Language Toolkit for text summarisation. Web Scraping by BeautifulSoup and requests. Backend API designed and developed on Flask API. For matching Web content with the Headline, we are using Count Vectorizer. Waterfall model is used for software development. The waterfall model is a breakdown of project activities into linear sequential phases, meaning they are passed down onto each other, where each phase depends on the deliverables of the previous one and corresponds to a specialization of tasks.

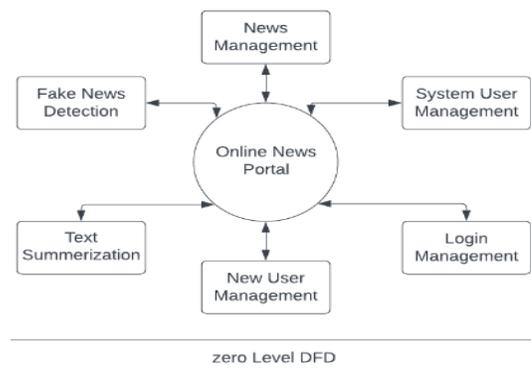


Fig. 1.

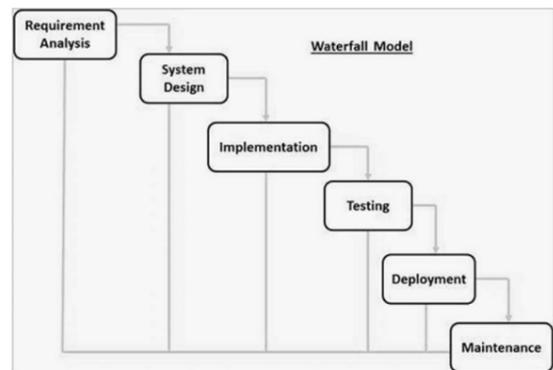


Fig. 2. Waterfall model

6. Conclusion

This is a fast-evolving world with modernization taking a toll on the world, we have worked upon enhancing user experience, by making it enjoyable and well informed about the world. Working module works on providing the news on a much less scale hence providing the news that only a particular user is interested in. An attempt has been made to develop a news or information-based website. To establish this website, we use various methodologies.

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