OCR GCE A

COMPUTER SCIENCE PROJECT

H446-03

Name : Akshajan Rajhmohan

Candidate Number : <INSERT CANDIDATE NUMBER>

<Institution Name> : <INSERT CENTRE NUMBER>

Title of Project : Real time news aggregator with sentiment analysis

H446-03 – Project CONTENTS

Table of Contents

[A. Analysis 3](#_Toc452555018)

[B. Design 3](#_Toc452555019)

[Systems diagram 3](#_Toc452555020)

[C. Developing the coded solution (“The development story”) 3](#_Toc452555021)

[D. Evaluation 3](#_Toc452555022)

[Project Appendixes 4](#_Toc452555023)

# A. Analysis

## Problem Identification: Limitations in User-Directed News Consumption

The current media consumption landscape, which offers multiple sources of information, often poses challenges for users seeking a curated and desirable experience. Traditional news websites such as BBC News prioritises a broad approach, which can expose users to a wide range of information, including outside their specific interests. A well-rounded understanding of current affairs, while valuable to be informed, for many this approach will be overwhelming as well as for users seeking a more intuitive media experience, which is suited to their interests. Additionally, the amount of information that users are exposed to can lead to information fatigue, which limits the processing and retention of important information.

In today’s fast-paced world, users often have limited time to spend on media. Personalised media tailored specifically to their needs, maximising time management, allowing them to focus on what is most relevant and interesting.

Current media aggregators often rely on algorithms that can establish confirmation bias, further reinforcing existing views. The solution aims to mitigate this by providing a user-centric approach. Traditional conventions also enable control over the types of information presented. The app empowers users to manage their media experience and gives them a greater sense of freedom and control. By addressing these limitations, this project seeks to develop a web application that provides a personalised and efficient media consumption experience. The app will enable users to view news that matches their specific interests and combat news fatigue, keeping them up to date on relevant topics without feeling overwhelmed.

## 3.1.2 Stakeholders

Target Users:

This personalized news application caters to a range of users, including busy professionals seeking a streamlined and relevant news experience, topic-specific consumers who want to personalize their feed based on their interests, and bias-conscious users who desire to curate a news feed reflecting their preferred perspectives.

To meet the needs of these target users, the application offers a solution that tackles the challenges of information overload. By providing a streamlined and curated news feed based on user preferences, the application minimizes the amount of irrelevant information users encounter. Furthermore, users can personalize their experience by filtering and prioritizing news by topic, source, and sentiment, allowing them to focus on what matters most and saving valuable time through a user-friendly interface and efficient filtering. This user-centric approach also mitigates algorithmic bias by empowering users to curate their own feed and encounter a wider range of perspectives, ultimately promoting a more balanced understanding of current events and reducing exposure to echo chambers.

Potential Future Stakeholders:

News Aggregators: News aggregators might find the user profiling aspect of the application valuable. By understanding user preferences, they could potentially integrate similar features to improve user experience and engagement on their platforms. However, this may require further development for commercial purposes.

News Organizations: News organizations might be interested in partnering with the application to reach a more targeted audience. The application could potentially offer a platform for these organizations to showcase their content to a relevant user base.

# B. Design

<See H446-03 Project Advice Booklet for help and guidance of what must go here.>

## Systems diagram

# C. Developing the coded solution (“The development story”)

<See H446-03 Project Advice Booklet for help and guidance of what must go here.>

# D. Evaluation

<See H446-03 Project Advice Booklet for help and guidance of what must go here.>

# Project Appendixes

Insert as many project appendixes as you need for your project.

These might include, but are not limited to:

* Complete Code Listing (ESSENTIAL)
* Interview Transcripts
* Meeting notes
* Observation notes or questionnaires