

# AI-Powered News Aggregation & Chatbot

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## Overview

You are tasked with developing an AI-powered system that extracts news articles from multiple Australian news outlets, categorizes and summarizes them, and then presents daily highlights in a user-friendly UI. Additionally, a chatbot should be implemented to allow users to ask questions about the highlights using Retrieval-Augmented Generation (RAG).

## Tasks & Problems to Solve

### Step 1: Efficient News Extraction & Data Processing

- Ensure the system extracts news from **sports, lifestyle, music, and finance** categories from multiple Australian news outlets using an optimized pipeline

### Step 2: Categorize and Summarize

- **Accurate classification:** Assign articles to the correct category (**sports, lifestyle, music, or finance**) based on content and metadata.
- **Detect duplicate or similar news:** Implement clustering, indexing, or both (or any other solution) to identify articles that report the same story across multiple sources.

### Step 3: Setup News Highlights per category based on frequency and keywords

- Prioritize highlights based on important keywords e.g. **“Breaking News”** or/and frequency across sources.

- Create a **simple UI** (feel free to build a web-based dashboard) that presents the top highlights.
- Show news based on categories with the following key details:
  - Title, author & source(s)
  - Frequency of the article
  - Any other useful fields.

## Step 5: Implement a Chatbot

### Your Task:

- Implement a chatbot where users can ask questions about the daily news highlights.
- Use RAG to generate the response based on the user input by understanding the context. i.e. the news/highlight they are asking about.

## The submission 📝

Submit your challenge to [info@foboh.com.au](mailto:info@foboh.com.au), provide a link to the git repo and the URL to the application by **end of day Sunday 23rd March.**

You should also include a README with any instructions. Tests are not mandatory but will be considered bonus points if you provide them.

It is not expected to be a production ready application and will not be evaluated in such a context.