Programming for AI
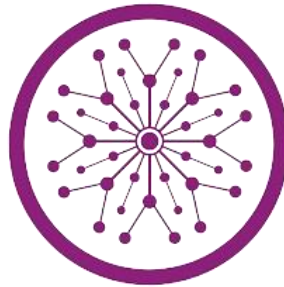
Lab

Task 8

The Superior University

Faculty of Computer Science & Information

Technology

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News App Documentation

Overview

This News App is a simple Flask-based web application that fetches and displays the latest news articles from NewsAPI based on a predefined search query ("Tesla"). The application retrieves news articles dynamically and displays them in a structured format using Bootstrap for styling.

Features

- Fetches news articles from NewsAPI

- Displays news articles with images, titles, descriptions, and a "Read More" link

- Responsive design using Bootstrap

- Error handling for missing images

Prerequisites

Before running the application, ensure you have the following installed:

- Python (version 3.x recommended)

- Flask (pip install flask)

- Requests (pip install requests)

How It Works

1. The Flask app fetches news articles from NewsAPI.

2. The JSON response is parsed, and articles are extracted.

3. The articles are passed to the index.html template for rendering.

4. The frontend displays articles in a grid format.

Flask Application (app.py)

- Initializes Flask app
- Fetches news articles via API request
- Renders data into index.html

HTML Template (templates/index.html)

- Loops through articles to display news cards
- Uses Bootstrap for styling

- Displays article image, title, description, and link

CSS Styling (static/style.css)

- Enhances UI with styles
- Implements hover effect on cards
- Defines image and button styling