📘 Project Documentation — Expresso

🌐 Overview

Expresso is a responsive and interactive web application that fetches and displays the latest news from Expresso official RSS feeds. Users can navigate through different news categories, search articles in real-time, and toggle between light and dark modes for a better reading experience.

🛠️ Technologies Used

- **HTML5:** Structure of the web page
- **CSS3:** Styling and layout (including dark mode)
- **JavaScript (Vanilla):** DOM manipulation, RSS fetching, parsing, and dynamic rendering
- **Font Awesome:** Icons (moon/sun for theme toggle)
- **AllOrigins API:** Used as a CORS proxy to fetch RSS data

📑 Project Structure

```
project-folder/
│
├- Expresso.html          # html (News dashboard)
├- Expresso.css           # Stylesheet (light/dark themes, layout, responsiveness)
├- Expresso.js            # JavaScript logic (RSS fetching, rendering, search, dark mode)
├- documentation-folder/
    └── README.md
    └── Project Documentation.pdf
```

✨ Features

- **RSS Feed Integration:** Automatically pulls and parses RSS feeds from Expresso Geral category.

- **Category Navigation:** Includes 'Geral'.

- **Dark Mode Toggle:** One-click switch between light and dark themes with icon update.

- **Responsive Design:** News cards adapt to different screen sizes using CSS Grid.

- **Real-Time Search:** Live filtering of articles by title or description as user types.

- **Caching System:** Categories are cached after first load to improve performance.

🚀 Getting Started

1. Download the Project
https://github.com/MaskMarauder/newsAggregators/tree/main/Expresso

2. Open in Browser
Open the Expresso.html file directly in your preferred browser.

No backend or server required.

⚙️ How It Works

- User clicks on a category: loadCategory() is triggered with the selected feed.
- RSS is fetched via AllOrigins to bypass CORS.
- XML is parsed and the first 25 articles are converted into card components.
- HTML is injected into the #news-section.
- Search filters the visible cards by keyword.
- Dark mode toggles the body class and icon color.

✅ Compatibility

Tested on:
- Chrome
- Firefox
- Edge
- Mobile devices (responsive layout)

⚠️ Limitations

- Requires internet connection to fetch live RSS data
- Depends on AllOrigins proxy (external API)
- No offline caching of data beyond current session

📄 License

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