

Project Documentation — RTP Notícias

Overview

RTP Notícias is a responsive and interactive web application that fetches and displays the latest news from RTP's 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

```
.
├── rtp.html    # Main HTML structure and elements
├── rtp.css     # Styles for layout, dark mode, and responsive cards
└── rtp.js     # JavaScript logic: fetching RSS, theme toggle, search
```

Features

- RSS Feed Integration: Automatically pulls and parses RSS feeds from RTP categories
- Category Navigation: Includes 'Últimas', 'País', 'Mundo', 'Economia', 'Desporto', 'Cultura', 'Vídeos', and 'Áudios'
- 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/RTP_Noticias

2. Open in Browser

Open the rtp.html file directly in your preferred browser:

rtp.html

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 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

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