

## 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

project-folder/

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├─ rtp.html           # html (News dashboard)

├─ rtp.css            # Stylesheet (light/dark themes, layout, responsiveness)

├─ rtp.js             # JavaScript logic (RSS fetching, rendering, search, dark mode)

├─ documentation-folder/

├─ README.md                           # This file

├─ RTP\_Noticias\_Documentation.pdf   # project description (technologies used and required dependencies)

## Features

- **RSS Feed Integration:** Automatically pulls and parses RSS feeds from RTP categories
- **Category Navigation:** Includes 'Últimas', 'País', 'Mundo', 'Economía', 'Deporte', '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](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 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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