Innovations in the Ionic Country, News & Weather App

1. Holidays Page for Displaying Public Holidays

A new API call has been added in **Countries Page** to fetch public holiday data for a selected country and pass it to the **Holidays Page**. A new **Holidays Page** has been added to display public holidays for selected countries, enhanced with images fetched dynamically from the Unsplash API.

Key Features:

- **Holiday Information**: Displays local name, official name, and date of the holiday.

- **Dynamic Images**: **Unsplash API** is used to fetch relevant holiday images based on the holiday name.

- **Error Handling**: A default image (assets/default-image.png) is used if no images are found.

- **API Integration**: Retrieves holiday data as the holiday name, local name and date of holiday from the **Nager.Date API**.

2. Error Handling in the News Page

Error handling has been added to the **News Page** to improve robustness when loading images.

Key Features:

- **Image Loading Fallback**: If a news article's image fails to load, a placeholder image is displayed (placeholder.png).

- **Improved User Experience**: Ensures consistent UI even when images are missing.

Image Error Handling in news.page.ts:

```
onImageError(event: any) {

        event.target.src = this.placeholderImage;

}
```

3. Theme Switcher in Settings Page

A theme switcher has been added to allow users to toggle between **dark mode** and **light mode**.

Key Features:

- **Storage Usage**: Theme preference is saved using MyDataService and persists across sessions.

Theme Initialization in settings.page.ts:

```
async initializeTheme() {

        const savedTheme = await this.mds.get('theme');

        this.darkModeEnabled = savedTheme === 'dark';

        this.setTheme(this.darkModeEnabled);

}
```

4. **Back Button for Navigation on multiple pages**

An **ion-back-button** has been added to allow users to return to the previous page.

Back Button for Navigation:

<ion-buttons> <ion-back-button default-href="/"></ion-back-button> </ion-buttons>

In my opinion these updates provide a better user experience through dynamic content, error handling, and improved navigation with back buttons. The Holidays Page stands out as an addition, offering users a visually appealing way to explore holidays across different countries.