Photo Gallery Project

This is a stunning photo gallery application built with React, Redux, and TypeScript, integrated with the Unsplash API.

Getting Started

Installation

1. **Clone the repository:**

```
git clone https://github.com/ChienHuang0818/photo-gallery.git
```

2. **Navigate to the project directory:**

```
cd photo-gallery
```

3. **Install dependencies:**

```
npm install
```

Running the Project Locally

To run the app in development mode:

```
npm start
```

Open http://localhost:3000 to view it in the browser. The page will reload if you make edits. You will also see any lint errors in the console.

Running Tests

To launch the test runner in the interactive watch mode:

```
npm test
```

Additional Features

- **Photo Search:** Users can search for photos using keywords.

- **Photo Details:** Clicking on any photo displays detailed information, including author and description.
- **Load More:** Supports infinite scrolling and loading more photos functionality.
- **Error Handling:** Provides detailed error messages to ensure a user-friendly experience.

Design Considerations

- **State Management with Redux:** The project uses Redux for state management to keep the state predictable and manageable.
- **TypeScript for Reliability:** TypeScript is used to enhance code reliability and maintainability.
- **Optimized UI with Styled Components:** The UI is designed using styled components to offer the best visual experience while browsing photos.

Project Structure

Here's an overview of the project's structure:

```
yourprojectname/
├── public/
├── src/
│   ├── api/
│   │   ├── unsplash.ts
│   ├── assets/
│   │   ├── logo.png
│   ├── components/
│   │   ├── test/
│   │   │   ├── __mocks__/
│   │   │   ├── Gallery.test.tsx
│   │   │   ├── Loader.test.tsx
│   │   │   ├── Integration.test.tsx
│   │   │   ├── photoSlice.test.ts
│   │   │   ├── store.test.ts
│   │   ├── Gallery.tsx
│   │   ├── Loader.tsx
│   ├── store/
│   │   ├── photoSlice.ts
│   │   ├── store.ts
│   ├── App.css
│   ├── App.tsx
│   ├── index.css
│   ├── index.tsx
├── package.json
├── README.md
├── tsconfig.json
```

Example Usage

Search Photos

- Enter a keyword in the search bar and press "Search".

Load More Photos

- Scroll down to the bottom of the page or click "Load More" to fetch more photos.

View Photo Details

- Click on any photo to view its details.

Contact

If you have any questions or suggestions, feel free to contact me:

- **Email:** betty556611@gmail.com
- **GitHub:** https://github.com/ChienHuang0818
- **Demo Video:** https://www.youtube.com/watch?v=vX3-2fnk2PU&t=2s