Optional Assignment Lab 4 revised with Vue

Due   Dec 15, 2022 by 11:59pm   **Points**   100   **Submitting**   a file upload

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This is an optional assignment. If you complete it, the grade you get on this assignment will replace your lowest lab grade. If your lowest lab grade is higher than your score on this assignment, you'll keep your original lab grade

CS-554 Optional Assignment

Vue Marvel API

For this lab, you will create a Marvel API Single Page Application using Vue, you will use your Express/Redis backend just as you did with lab 4.

You will be creating a Single Page Application using Vue that implements the following routes using Vue and Vue Router

Pages

/

The root directory of your application will be a simple page explaining the purpose of your site (to talk about Marvel, the API etc..).

This page will have a `<Link>` to the Characters Listing (`/characters/page/1`), The Comics Listing (`/comics/page/1`), and the Series Listing (`/series/page/1`)

/characters/page/:page

This route will render a paginated list of Marvel Characters from your backend. It will use the :page param to determine what page to request from your backend. If you are on page 1, you will show a button to go to the *next* page. If you are on page 2+, you will show a *next* button and a *previous* button, that will take you to the previous page. **If the Page does not contain any more Characters in the list, the SPA will redirect to a 404 page.**

/characters/:id

This route will show details about a single Character from your backend. **If the Character does not exist, the SPA will redirect to a 404 page.**

/comics/page/:page

This route will render a paginated list of comics from your backend. It will use the :page param to determine what page to request from your backend. If you are on page 1, you will show a button to go to the *next* page. If you are on page 2+, you will show a *next* button and a *previous* button, that will take you to the previous page. **If the Page does not contain any more comics in the list, the SPA will redirect to a 404 page.**

/comics/:id

This route will show details about a single comic from your backend. **If the comic does not exist, the SPA will redirect to a 404 page.**

/stories/page/:page

This route will render a paginated list of stories from your backend. It will use the :page param to determine what page to request from your backend. If you are on page 1, you will show a button to go to the *next* page. If you are on page 2+, you will show a *next* button and a *previous* button, that will take you to the previous page. You will also show some sort of pagination UI (see below). **If the Page does not contain any more stories in the list, the SPA will redirect to a 404 page.**

/stories/:id

This route will show details about a single story from your backend. **If the story does not exist, the SPA will redirect to a 404 page**.

Note: You will not have to implement the history route for your Vue application

Pagination

Pagination can be done using an external library from NPM.

The minimum you must provide for a pagination UI:

- **If you are on page 1, you will show a button to go to the *next* page.**
- **If you are on page 2+, you will show a *next* button and a *previous* button, that will take you to the previous page.**

Pagination HINT: Look at the data.. You can also do the pagination by using the following fields in the data: "offset": 0, "limit": 20, "total": 1493, "count": 20

HTML, Look, and Content

Besides the specified settings, as long as your HTML is valid and your page runs passes a **tota11y** ⯈ **(http://khan.github.io/tota11y/)** test, the general look and feel is up to you. If you want to update it, you may; if you do not, that is fine.

As for the data that you chose to display on the details pages, that is up to you. You should show as much of the data as possible. For example, a single character has comics associated with it. It would be nice if you add links to the comics details page for a comic that a character appears in, also perhaps link to the characters that are in a comic on the comic details page.

Extra Credit

NO EXTRA CREDIT FOR THIS AS THE WHOLE ASSIGNMENT IS EXTRA CREDIT.

General Requirements

1. Remember to submit your `package.json` file but **not** your `node_modules` folder.
2. Remember to run HTML Validator and tota11y tests!
3. Remember to have fun with the content.
4. Remember to practice usage of async / await!