

Yu Gi Oh Card Browser Client

Git Repository:

<https://github.com/stheoharis/YuGiOhCardsClientBrowser>

Presentation URL:

<http://www.stefanostheoharis.com/YuGiOhCardsBrowserClient>

About

Yu Gi Oh Card Browser Client is a single page application(SPA) developed with **Angular 7(TypeScript 3.1)** framework, **Bootstrap 4** and **ngx-bootstrap**, a framework which combines Bootstrap components powered by Angular features.

Design and Architecture

Using bootstrap's grid system, the site is responsive and has the potential to be adaptive to all screen sizes.

The architecture of the client consists of two basic angular components, the header component (serving as the navigation menu), and the router-outlet directive from the angular/router library package. The router-outlet directive presents a particular component view for a given URL.

Navigation

There are currently two URL paths, one displaying the dashboard and the other the browser component. The dashboard contains the ngx-bootstrap directive carousel, and the browser consists of two components, the card list component and the card detail component, each communicating with a **master/detail pattern** using the angular/core modules **input, output and EventEmitter**.

Server Calls

Since the API providing the cards did not provide me a functionality of getting all the cards at once, I stored the card names in app/CardNamesList.ts file to use them for the get calls. The communication with the API is accomplished by an injectable service called restService. A new instance of RestService is provided to each component demanding it via dependency injection(DI) from the Angular injector (@Angular/core). In our scenario only the cards list component is using it to populate our list with the card objects.

Deployment

The application is already deployed on my personal website:

<http://www.stefanostheoharis.com/YuGiOhCardsBrowserClient>

Make sure you type it with http:// because API call is http based, and you will get a CORS error otherwise.

Once I have your feedback I will shut down the url.

In order to build the project you need [Node.js](#) and Angular CLI.

- Install Node.js then run in command prompt `npm install -g @angular/cli`. Once you pull the project, you need to fetch the dependency packages-I did not uploaded then since they are quite a lot.
- Navigate in the command prompt in the folder you downloaded the project (ex. `cd C:\Users*USER*\Documents\GitHub\YuGiOhCardsClientBrowser`) and then type **npm -install**.
- To see the client in your browser type **ng serve -o**.

Notes

For the sake of simplicity and time saving I skipped unit testing. Angular cli provides us with a handy testing framework **Jasmine** and a javascript test runner **Karma** but for this project please ignore the .spec.ts files.

Styles should also be written in the corresponding component .css files and not in the html components(I wrote an example for cardsList component) and thats what I usually do to save rewriting the same code (DRY-Don't Repeat Yourself).

If you have any questions, suggestions or feedback please feel free to contact me.