

Advanced Web Technologies CW1 Report- CCG Index

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1 Introduction

What is CCG Index The CCG Index is a collectible card game(CCG) informational web-app it allows a user to look up information about a variety of CCGs by

- Accessing the **Search Page** were the user can search for the name of a specified CCG and be taken to a page about said CCG.
- Accessing the **Home Page** were a user can click links related to suggested CCGs which also take the user to a page about said CCG.

The User can also see information about the site through the **About Page**, the web-app also communicates what a CCG is through its **CCG Info Page**. The app uses an integrated navigation bar [1] to allow for easy navigation throughout the various web pages on the site created using HTML templates. And if the user ever inputs a URL that doesn't correlate to anything they are taken to a custom Error Page thanks to the use of custom error code handling.

Extra Functionality The Item page has external links to websites. The user can also input directly in the URL a CCGs name after "CCG\" to access an **CCG Item Page** and in the result of no CCG being found, the user will be shown a custom **Result Not Found Page**. The user can also input directly after the "search\" to quick search the name of a CCG.

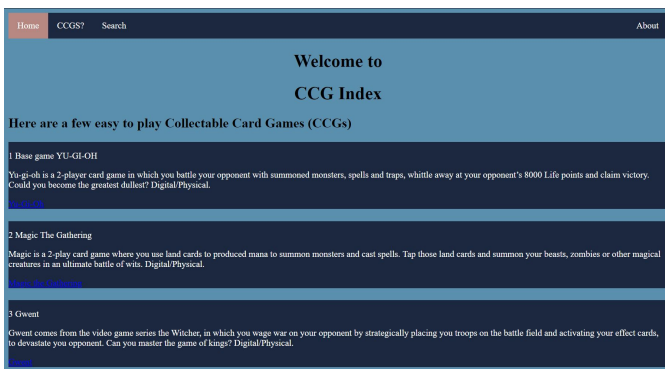


Figure 1: Home Page of web-app

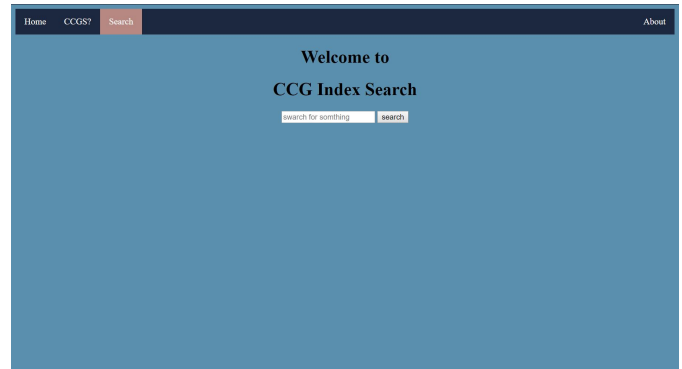


Figure 2: Search Page of web-app

2 Design

2.1 URL Hierarchy

The URL Hierarchy branches from the home page into CCG, search and about; the hierarchy is designed like this as the subsequent pages only expand on what was displayed on the home page. Item also branches off of CCG as it shows specific Items from the CCG Category.

CCG Index—URL Hierarchy

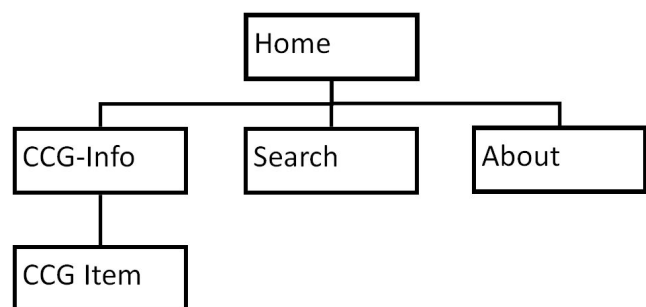


Figure 3: URL Hierarchy of web-app

Listing 1: URL routing in Python

```

1 #include <iostream>
2
3 from flask import Flask , render_template, url_for
4 app = Flask(__name__)
5
6 #Home Page
7 @app.route('/cpg_index')
8 def HomepageSlected(name=None):
  
```

```

9     return render_template('home.html')
10 #Item Selected Page
11 @app.route('/cgg_index/ccg')
12 @app.route('/cgg_index/ccg/')
13 @app.route('/cgg_index/ccg/<ccg>')
14 def CCGSlected(ccg=None):
15     return render_template('item.html', ccg=ccg)
16 #Search Selected Page
17 @app.route('/cgg_index/search')
18 @app.route('/cgg_index/search/<ccg>')
19 def SearchSelected(ccg=None):
20     return render_template('search.html', ccg=ccg)
21 #about page
22 @app.route('/cgg_index/about')
23 def AboutSelect(name=None):
24     return render_template('cgginfo.html')

```

2.2 Navigation

The user can navigate to most of the sites pages using the navigation bar [1] with the only exception being the Item page. The Item page can only be accessed from the Home and Search page. The Item Page can also access all other pages via the navigation bar. The web-app is designed in this way to allow the user easy access to curated information. The only page that dose not have a navigation bar is the Custom Error Page.

CCG Index—URL Navigation

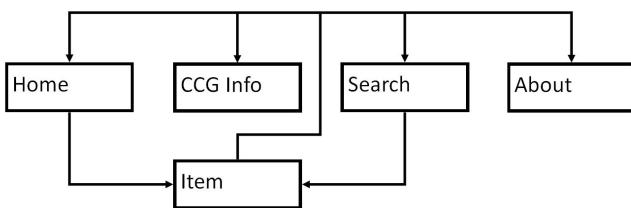


Figure 4: Page Navigation of web-app

3 Enhancements

The search feature of the web-app is a little under developed I could have made the feature show multiple results instead of making the search exact match only.

4 Critical Evaluation

Features that work well

- Navigation bar - It functions as expected and looks professional.
- Search page - It functions as expected

Features that work poorly

- Links are hard to read against the blue back drop.

5 Personal Evaluation

The web-app was first created basic with limited user interaction and then subsequently built upon in order to add features. The goals I had set for the completion of the web-application were meet with limited issue, However some features I had planned to implement such as loading images from static files were not full implemented showing that an improvement in my time keeping abilities is still needed. The few challenges I faced were down to a lack of experience and where later overcame by doing light research and tutorials. To conclude I fell I preformed better than I had first expected to and gained more experience with web-app development.

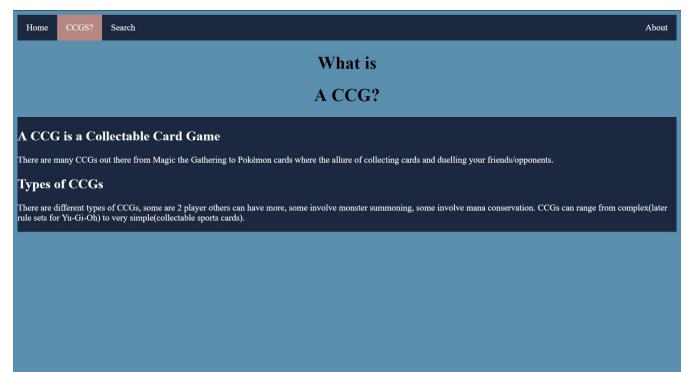


Figure 5: Info Page of web-app



Figure 6: Item Page of web-app

404 You seem to have gotten lost
The page you are looking for dosen't exist

Figure 7: Error Page of web-app



Figure 8: **Result Not Found Page** of web-app

References

- [1] W3Schools, 2018 "How TO - Top Navigation", Accessed:01/10/2018, https://www.w3schools.com/howto/howto_js_topnav.asp;