

Coursework 1 Report

David Stoddart

40209068@live.napier.ac.uk

Edinburgh Napier University - Advanced Web Technologies (SET09103)

1 Introduction

The website is a collection of guitars. You can view the guitars by using the top navigation bar and this can also take the user back to the home page at any time. The website also gives information on the guitars like the people who play them and what kind of music that they are used for. It also shows the people who built them and tells you a bit about them.

2 Design

For the design of the website it was decided that a top navigation bar would be very effective and speedy way to get through the websites content. The navigation bar has all the guitars and the home button so the user can always skip between different guitars and get back to where you started. There was also a hover function implemented on the navigation bar so the user can see what button they are over with the mouse because it changes colour to red.

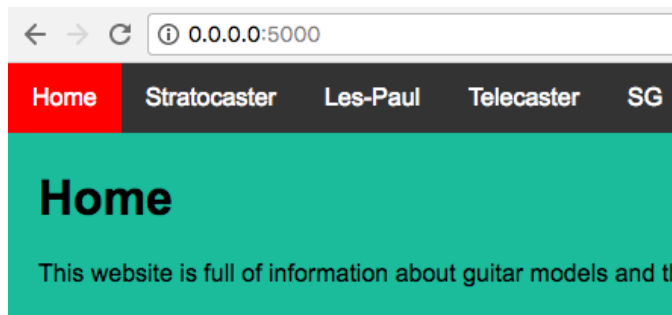


Figure 1: **Navigation bar** - navigation bar light up red

3 Enhancements

If there was more time to make the website there could be implemented a button at the other end on the navigation to switch the bar to be the people who made the guitars. This would help improve ease of use and make using the website better. If that couldn't be implement there could be set up a drop down on every guitar so the user could have the option to click the guitar or the maker.

If there was more time it could have more guitars and makers and more information about the guitarists who use the aforementioned guitars. Other improvements could be

what some people have done to the guitars by adding modifications that some manufacturers have added onto their guitars and some modifications that have created all new guitars completely.

4 Critical Evaluation

After doing some research about how to use python and flask for different things a method was worked out how to open any HTML file with the python flask app as long as the file name was sensibly named.

```
1 from flask import Flask, render_template, url_for
2 app = Flask(__name__)
3
4 #open the home page
5 @app.route('/')
6 def root():
7     return render_template('home1.html'), 200
8
9 #open everyother page by reading it from the url
10 @app.route('/<name>', methods=['GET', 'POST'])
11 def guitar(name=None):
12     return render_template('{0}.html'.format(name), name=name), 200
13
14 if __name__ == "__main__":
15     app.run(host='0.0.0.0', debug=True)
```

Figure 2: **Python file**

The method that does this is from line 10 to 12[1]. It reads the name of the file from the URL and sets it to variable name, it then searches and renders a template with the same file name as what is in value name. If the URL has a name in it that isn't a template then it wont show anything but this is controlled by having the top navigation bar so the user never has to even look at the URL. The navigation bar adds values to the URL and these all match a certain file.

A single HTML file was made that all of the other HTML files extends so if something was to change athletically it would change all of them at the same time making it easier to change mass amounts on the website and if something specific with one of the extending pages was to be changed it can still change easily without changing the rest of the website.

Listing 1: Main HTML file set extends

```
1 <html>
2   <body>
3     <div>
4       {% block content %} {% end block %}
5     </div>
6   </body>
7 </html>
```

Listing 2: File that extends into the main HTML

```
1 {% extends "main.html" %}  
2 {% block content %}  
3     What ever is being added to the main HTML page goes here  
4 {% endblock %}
```

The downfall of the website would be going onto the inventors of the guitars on the website. There couldn't be worked out a more efficient system than what has been implemented in the website. With the current system the user has to go to the guitar and then read through the text until the inventors name and click it. If they are only going onto the website to see information about the inventors then this is not a good system. If the user didn't know the guitars they made and there were hundreds of guitars on the website this could take a long time just looking for that one bit of information.

5 Personal Evaluation

I feel this coursework went well for me. Its the first time I have ever used python and I feel I have learned a lot. I was very pleased with myself when I worked out how to open any HTML file from python with only three lines of code. Because of all the work I did in python I feel much more confident using the python language.

I also feel that the top navigation bar was the most effective way to get around the website. It helps users get around easy and go between pages quickly. I also feel I could of made it better by adding the button to switch it from guitars to inventors or incorporate the drop down function. This would of helped the users around the website a lot and make it an all round better experience. This would of also helped if I added more information not even more guitars or inventors but players and modifications which I originally intended to add but couldn't because I was more focusing on usability than content.

The website could of also done with a better look to it but I never found a colour combination that I felt looked right and thought white was a bit boring so in the end I went with the last combination that i typed in. The pictures of the guitars were also not done very professionally. I couldn't find any pictures without a background so had to remove it. This could of been done better if I had better photo editing skills but I never edit photos.

References

[1] D. Stoddart, "Coursework," *coursework.py*, Oct. 2017.