Report – Advanced Web Technologies CW1

**Introduction**

**This web app is used to store details of artists and albums in a database, which you can then view on the webpage. You can view all artists and albums, and search through the artists. It has a navigation bar with a welcome page, artist page, album page and search page. There is also a search function every page except the welcome page.**

**Design**

**The design of my web app is made to be easy to use so it uses a basic interface. It has a simple navigation bar which includes links to all pages and has a search function on each page except the welcome page. The layout of displaying the data from the database is meant to be simple to read. It is a very basic interface, with just a navigation bar, search input/submit, and the information of artists/albums from the database. I used templates to display the pages from the search bar. These are stored in the templates folder which I call from the python file. Each page uses “render\_template” to use the HTML templates.**

**Enhancements**

**The web app in the current state is very basic and there some features I would add. The ability to refine search by artist and album using radio buttons is one, as currently it just searches the artists. Album art in the album listings would also be an improvement to the purely text database. I’d also make the interface a little nicer looking. It’s very simple and plain at the moment. The welcome page could have more presence – It is just a welcome page with my name and matriculation on it. I’d have liked to include an order by function on the artists and albums page, it is currently alphabetical. Adding songs in as well as albums and artists is something I should have considered adding to the database.**

**Critical Evaluation**

**The web app is very basic and does not include as many functions as it could. It will simply display all the artists/albums in alphabetical order on the artists/albums page and the search function only searches artists. There is no way to see just the albums of one artist, or order by info such as year formed. The interface is very basic however it is functional and works. The entire navigation bar links are working and the search box works on each page, however only searches the artists and not the albums. Overall the web app functions, however misses out on major features (searching albums, sorting) and has the opportunity to be much better.**

**Personal Evaluation**

**The web app is not as good as it could be, however I am happy that it functions to a basic level. Displaying the artists and albums I would change to be sorted by year or genre, and I’d like to be able to search in the albums as well as artists. The page could have some visual enhancements, it’s very simple and not very eye catching. It is however easy to read and the simple navigation bar is functional. I learnt how to use Levinux, Flask and a deeper understanding of Python. I faced the challenge of having no experience in Levinux before this or Flask. To fully develop the app I had to spend time learning how to use both Flask and Levinux which mostly consisted of working through the workbook. Using SQLite3 took a little while to get working, however once it was setup, using it was fairly easy to understand. Once the database was setup, populating it was simple. I am overall okay with the final outcome of the site, however I do know that I could have put many more features into it and made it more than just a passing web app.**

**Summary of Resources**

[**http://www.w3schools.com/**](http://www.w3schools.com/)- I used this for some of the basic SQL queries and HTML.