

# Coursework Report

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## Abstract

Websites these days have gone far beyond basic HTML pages. For the coursework we were tasked with creating a website in python, in conjunction with HTML templates and other static files, that would show the basic skills we have learned so far in the module

## 1 Introduction

This web-app is a basic movie catalogue which displays a list of movies with some information about them, including the director, actors involved and a short description about what the movie is. The website allows you to navigate in between the web pages and select a movie from the list.

## 2 Design

The website is designed so rather than having to create a new HTML file for every individual movie, you can extract the data from a python dictionary and then pass the specific data into an HTML template. This is much more efficient as not only does it save disk space but it prevents re-writing HTML code. The HTML template contains Jinja2 tags which link to a specific item from the dictionary and the python main file controls which movie data is inputted into the template. There is a nav bar which is fixed to the top of all the web pages which allows the user to freely navigate the website. This is a common way for website navigation now and it means the user should not have to enter in the url for the page they want. The web-app uses inheritance in order to display the HTML templates such as the nav bar across all pages

## 3 Enhancements

Features that would be good to add would be a way of searching the movie you want by name or any other item, which could be done by implementing a search bar. This would mean the user could find the movie they wanted to look at much more quickly than by searching through a list. At the moment as the data set is only a range of five this isn't too much of a problem but could be a problem as the dictionary expands.

## 4 Critical Evaluation

The features that work well would be the data being passed into the template from the dictionary. As this works well it means that it wouldn't be difficult to have a bigger dataset and expand the web app.

## 5 Personal Evaluation

I feel that I have learned how inheritance works and feel quite confident with how python dictionaries work. As this was my first time programming in python I found it a bit challenging at first but soon became accustomed to it and now I feel quite comfortable programming in python. I faced a number of challenges and problems some of which I am still not sure how to fix. Sometimes my files would go into Read-Only mode which meant I could not further edit my file. Also I encountered a problem where sometimes I could not access some of my static files such as images. I would perform an ls command in the static directory to check if my files were still there but they would display with the message "Input/Output Error".

## References

Information for the movies: <http://www.imdb.com/>