



Unit: Dynamic Websites

Assignment title: Spencer Animal Shelter (SAS)

June 2018

Important notes

- Please refer to the *Assignment Presentation Requirements* for advice on how to set out your assignment. These can be found on the NCC Education website. Click on 'Policies & Advice' on the main menu and then click on 'Student Support'.
- You must read the NCC Education Documents *What is Academic Misconduct? Guidance for Candidates* and *Avoiding Plagiarism and Collusion: Guidance for Candidates* and ensure that you acknowledge all the sources that you use in your work. These documents are available on the NCC Education website. Click on 'Policies & Advice' on the main menu and then click on 'Student Support'.
- You **must** complete the *Statement and Confirmation of Own Work*. The form is available on the NCC Education website. Click on 'Policies & Advice' on the main menu and then click on 'Student Support'.
- Please make a note of the recommended word count. You could lose marks if you write 10% more or less than this.
- You must submit a paper copy and digital copy (on disk or similarly acceptable medium). Media containing viruses, or media that cannot be run directly, will result in a fail grade being awarded for this assessment.
- All electronic media will be checked for plagiarism.

Introduction

Spencer Animal Shelter (SAS) is a leading animal shelter and it looks after a range of different animals of shapes and sizes. For example, it mainly looks after cats and dogs, however it also looks to rehome chickens, rabbits, mice, guinea pigs, goats, sheep and more!

SAS aim to provide the best possible care for animals and promote good welfare and responsible pet ownership and they do this through providing support, guidance and education to new animal owners. SAS take in unwanted and lost animals and provide them with care and shelter and look to find them new homes.

SAS need a website to attract new customers to the website which is funded through donations and some advertisements. The website needs to include customer login which records invalid login attempts and locks the user out after 3 attempts. The reset should be allowed after 5 minutes. You have been commissioned by the owners to produce a web-based application, which will enable customers to view the animal and veterinary services that they provide and then review and post comments to other users via the online community.

A database will need to be created to allow customers to create their own personal account. The system will store personal details of each customer, their email address, their date of birth, postal address including postcode and pet so that appropriate marketing material can be sent in future. The database should be able to store donations received from each customer when pets have been rehomed. Customers who have not accessed the site for 24 months should be deleted from the database.

A web enabled application needs to be created to allow users to create, query, browse and manipulate the database and allow the user to create and delete records they are currently browsing.

The website should include RSS feed to show the latest news as the animal shelter regularly provides news stories linked to the various animals within the shelter. It should also include a visitor counter which increments. You should also include a welcome banner which showcases three different animals which rotate automatically in the banner.

Customers need to create their own account to log into the system via a registration script. Once they log in they should be presented with an interface that allows them to:

- Access the online community forum
- Update their information
- Change their password

You are expected to use a combination of PHP, MySQL and JavaScript to create this application. Your application should also make use of a web service to show the bookings that have been made.

Task 1 – 10 Marks

Create a setup page and tables for the SAS website.

Task 2 – 15 Marks

Create the login and registration system. This should include username and password and store personal details and an email address. To gain the highest marks for this task you should make the system as robust as possible and it should allow reset after 5 minutes.

Task 3 – 15 Marks

Once the visitors have logged on they should have access to an online community forum. Create an online forum that can be accessed by registered users only and it should be configured to show pet gifts and accessories such as rugs, baskets, toys etc, the number of messages to be displayed on each page and user permissions.

Task 4 – 20 Marks

The owners have asked for additional functionality for the website. Implement the following features:

- RSS feed
- Scrolling marquee/text/image on the home page
- Visitor counter which increments and is displayed on the home page
- Social media links

Task 5 – 15 Marks

Ensure that front end users can create/delete records that they are currently browsing by using an appropriate app.

Task 6 – 10 Marks

Include a calculation in the database which will total the customer's donations to the shelter.

Task 7 – 15 Marks

You are required to write a 500 word reflection on this activity. Answer the following questions:

1. What have you learnt?
2. How could the system be improved or further developed?
3. Which parts of the development did you find most difficult?

Submission requirements

- For each task, you should present the necessary code and screen dumps in a word-processed document.
- All references and citations must use the Harvard Style.

Candidate checklist

Please use the following checklist to ensure that your work is ready for submission.

- Have you read the NCC Education Documents *What is Academic Misconduct? Guidance for Candidates* and *Avoiding Plagiarism and Collusion: Guidance for Candidates* and ensured that you have acknowledged all the sources that you have used in your work? ☐
- Have you completed the *Statement and Confirmation of Own Work* form and attached it to your assignment? **You must do this.** ☐
- Have you ensured that your work has not gone over or under the recommended word count by more than 10%? ☐
- Have you ensured that your work does not contain viruses and can be run directly? ☐