Unit:
Dynamic Websites

Assignment title:
Save A Leopard (SAL)

September 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

Save an Amur Leopard (SAL) is a charity that has been set up to specifically save the leopard. This elegant animal is one of the most elusive cats across the world. In the last 15 years the number of leopards has declined by 20% and in 2017 it was noted that there are only 70 of these leopards left in the wild as their habitat is under threat from forest fires and land clearance to develop roads and manufacturing plants.

The charity is funded solely through donations which can be made on a monthly basis or through an annual subscription. Once you become an annual member you will receive a bi-monthly members pack which shows the incredible work the charity does do across the world, an Amur Leopard badge and a exclusive planet magazine three times a year.

The charity works to restore the wildlife and the most threatened species across the world by working with countries to reduce carbon emissions and tackle climate change.

SAL need a dynamic website to attract new donators to the website, which is funded through donations and 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 adopt an Amur Leopard and join SAL as an annual member. The website must be able to be viewed on mobile devices including phone and tablet.

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, animal adopted and start and end date of adoption (annual membership) so that renewal material can be sent at the end of each adoption year. The database should be able the store the annual membership fee received from each customer when leopards have been adopted. Customers who have not renewed their membership 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 search engine optimisation and include a slider with appropriate content on each page. It should also include a visitor counter which increments on visit and a footer which includes contact information, social media buttons, online chat features and newsletter signup form.

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 donations that have been made.

Task 1 – 10 Marks
Create a setup page and tables for the SAL 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 their annual membership record. Create an online forum that can be accessed by members to request an update about their annual membership or adopted animal.

Task 4 – 20 Marks
The owners have asked for additional functionality for the website. Implement the following features:
- Mobile accessible website on phone/tablet
- Slider on all pages
- Suitable use of a web service
- Visitor counter which increments and is displayed on the home page
- A footer which includes contact information, social media buttons, online chat features and newsletter signup form.

Task 5 – 15 Marks
Ensure that front end users can create/query/delete records that they are currently browsing by using an appropriate app.

Task 6 – 10 Marks
Include a calculation in the database which will calculate the difference between the start and end date of the annual membership (eg showing how many days are left).

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 to become a fully mobile website?
3. Which parts of the development did you find most difficult and why was this?
4. How did you overcome these difficulties?

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?	❑