

SSWD – Group Project

Worth – 80% module grade

1st deliverable – deadline: 25/03/2016 – 23:55:00

2nd deliverable – deadline: 17/04/2016 – 23:55:00

Description

Students are to work in groups of 3. In this group you will plan, design, and build a fully functioning dynamic web application. The following are the basic specifications:

Build a website for fitness centre. The website will have two parts:

- The first part will be for the public. It will have a minimum of four pages to include the following pages; **home, membership, classes, and feedback.**
- The second part will be used by the fitness centre owner to maintain the public pages. It will be password protected. For this part, the username and password for all projects should be set to 'admin' and 'password' respectively.

Every public page will be editable by the owner, i.e. he/she will be able to modify the title, text and images that will be displayed on each page. The fitness centre owner will be able to dynamically create or delete public pages (but not: the home, membership, classes, and feedback pages).

The **home** page:

- will display (as will all other pages) a title, description and images. It will also show a selection of testimonials that the fitness centre owner chooses to publish. It will also show/integrate the twitter widget to display tweets from the fitness centre account (you may need to create a twitter account).

The **membership** page:

- will display a list of membership options (for example Platinum, Gold, Off-Peak, Student, Over 60). The fitness centre owner will create/update and delete membership options in the membership administration section. Each membership option will have a title, text, and price. The membership page will also contain a **request call back** section, where a user, who wishes to speak to a member of the fitness centre staff, will be able to enter their name, phone number, email address, and a question/query so that he/she can be contacted back by the fitness centre.

The **classes** page:

- will display a list of classes by day of the week, along with the time, description, and instructor name for each class. Examples of classes are yoga, spin and tone, step aerobics, and zumba. From this page, the user will be able to book a place on a class. When booking a class, the user must supply his/her name, phone number, and email address. The classes administration section will display for each class, details of all users who have booked that class.

The **feedback** page:

- will display a form through which the user will be able to send a message to the fitness centre owner. The user will be able to enter his/her name, phone number, email, and a message. The feedback administration section will display all of the messages that have been submitted to the website. The owner will be able to choose to publish a message. All published messages are displayed on the home page as testimonials. The default publish setting should be set to no.

The **administration** section:

- will be password protected with sessions and cookies used to restrict access. The fitness centre owner will be able to log in to this section from the public home page. All website pages will be administered from within this section.
- In the administration section the fitness centre owner will be able to create and modify an image gallery per public page. The image filename, page, and caption should be recorded. There can be variable number of images per gallery.

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Deliverables

Both the first and the second deliverables must be submitted via Moodle.

1st deliverable: initial document – **due date: 25/03/2016 - (20%)**

1. A brief overview of the website (less than 1 page).
2. Wireframe of the website (1-2 pages)
3. Functionality you intend to provide (1-2 pages)
4. Database design – ERD: tables and relationships (1-2 pages)

The initial document should also contain the names and student numbers of all team members on the front page.

This document should be submitted as a PDF file named: `sswd_studentno1_studentno2_studentno3.pdf`

2nd deliverable: final application – **due date: 17/04/2016 - (80%)**

Web Application requirements:

- You must handle form data in a secure manner e.g. use html and php validation techniques when handling user inputs.
- Make the website look professional by using good CSS techniques and appropriate content.
- The website should store its data in a **MySQL** database.
- Your **HTML**, **CSS**, and **PHP** code should be indented and commented.
- Connection to the database should be made using one external file (e.g. `connect.php`).
- The home page of the site should be called `index.php`
- You should create a `readme.txt` file that will contain website setup instructions in bullet points e.g. the steps that are required to install the fitness centre web application on a new machine/server.
- You should generate a file named `database.sql` which will be the dump file of your database and it should contain the exported contents of your database.
- To submit the project, create a ZIP file with the name:
`sswd_studentno1_studentno2_studentno3.zip`
- The ZIP file must contain your `readme.txt`, `database.sql`, `HTML`, `IMAGES`, `PHP`, and `CSS`.

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Grading Summary

Marking Criteria:

- In order to pass, students must present a working and usable application that covers the basic specifications provided above.

Marks will be awarded for:

- Implementing features, Quality of HTML/CSS, Quality of PHP/Database design, Usability, and Innovation.

Overall marks breakdown:

- Initial Document – 20%
- Final Application – 80%

Final application marks breakdown:

- 20% Visual Design: Navigation / Layout / Imagery / HTML / CSS
- 10% Database Design: ER Diagram / Normalisation
- 10% System Architecture
- 40% Code Quality
- 20% Extra features invented by you

Deductions:

- 10% Project not submitted properly as per the instructions
- 20% Per week late submission (maximum 2 weeks)
- 50% Maximum if website crashes

Notes:

- All code must be original and commented. You may be asked to explain any piece of code. Failure to understand and explain code may be taken as evidence of plagiarism.
- **HTML, CSS, PHP, and MySQL** must be original. Do not use someone else's design/code for the basic/advanced functionality of your site.
- This is a group project, and requires team work. Any group perceived not to be working together may be penalised.
- The last week of the module – 25th April = lecture + lab slots will be used for projects demo! Each group to present demo of their project and present the features they have developed.

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FAQs

How do I submit the project? Should we submit multiple files? What is the late submission penalty?

- If you have these questions then you have not read the instructions! You must spend a few minutes to carefully read the entire document before doing anything. In order to ensure the accuracy of web application, it is important that you understand the requirements.

Can we provide advanced functionality?

- Your project is free to extend beyond the core functionality outlined above. The core functionality is the minimum requirement to pass the project work.

Can we use JavaScript?

- Although this is not a requirement but you're free to use it. But you can't use it as a replacement to php code.

Where do we get the website content from?

- You need to generate relevant content. Search around for similar websites to get some ideas.

Can we make a group of 2 or 4?

- Given the amount of work, group of 2 is not an option. 3 is the ideal number for a group. If you want to make a group of 4 then I will expect 33% extra project work as compared to a group of 3. That extra work should span across all dimensions of the project.

Can we design/develop our own web application instead the fitness centre?

- Of course yes! Feel free to specify your own project proposal. This must be done in the 1st deliverable.
- After that you need to get an approval from the lecturer.
- Basic criteria: your application must provide enough core functionality to be a good alternative to the fitness centre application.

There are requirements (or tasks) that have not been covered in the module so far.

- They will all be covered 'well before' the project submission deadline.

How will we do the project demo?

- In class/lab using the projector. Each group will be given 10-15 minutes for the demo. You can prepare 4/5 slides to set the context before doing the demo of your application.

What is the best way to start?

- a. Plan,
- b. Distribute the work between group members,
- c. Code (& Integrate),
- d. Test