

COM2025: Web Application Development

Coursework Description Autumn Semester 2013

Introduction

This is an assessed piece of coursework, so the project that you submit *must be your own work*, and you must understand all the files that you create for this project. Of course, you may discuss ideas with each other, and ask for advice from us. But you must make sure that you understand everything you submit as you will be tested on your project under exam conditions in the Class Test.

The submission deadline is 16:00 on Monday 2nd December. Please archive your project and submit it via SurreyLearn.

Your Customer

Croquet is a peculiarly English sport:

<http://en.wikipedia.org/wiki/Croquet>

It is perhaps best known from the surrealistic version in Lewis Carol's *Alice's Adventures in Wonderland*. However, it is still practiced both nationally and internationally as a competitive sport. Within the UK there are a large number of clubs with members at a wide range of skill levels, some competing in national and international competitions.

These clubs are cash limited, as with most of the minority sports in the UK. We have been asked if we could help build a website for the Cheam Croquet & Bowls Club (once an attractive village – yes, I *am* historic! – Cheam is now absorbed into London's suburbia, although retaining some local character

<http://en.wikipedia.org/wiki/Cheam>).

Your task is to build a demonstration of what can be achieved using Ruby on Rails.

In order to implement one of the features, you will need to use Rails 4. Please contact me as soon as possible if you have any issues with upgrading to Rails 4 on your own machines (or with using your own machine for preparing the coursework).

Project Brief:

We have a very open brief as the customer does not have much experience of what is possible. However, they have said that the website from the nearby Reigate Priory Croquet Club provides a good model:

<http://www.reigatecroquet.purpleowl.co.uk>

I may be able to obtain more content over the next week or two, but you can obtain some content specific to the customer, and their logo, from this newsletter:

<https://dl.dropboxusercontent.com/u/23490033/July%20Newsletter.doc>

For other pages, it will be fine just to include “*lorem ipsum*” text. You might want to include graphics or images that you have found on the web in order to bring your project to life. None of your projects will be made publicly available, but do make sure you reference your sources at least as comments in your html code.

Detailed Requirements:

1. Make sure that the title reflects the practice demonstrated in the lectures. [5 marks]
2. Header: Use the logo provided in the above Newsletter, but otherwise feel free to exercise your design skills. [5 marks]
3. Home Page: Use some text from the Newsletter. [2 marks]
4. About the Club: Just use “Lorem ipsum” text. [2 marks]
5. How to Join: Ditto [2 marks]
6. What you need: Copy the information from the *Reigate Croquet Club*. [2 marks]
7. 2013 Programme: Make the title of this page automatically reflect the current year. Events should be stored in a database and the page generated from that. Only current and future events should be displayed. Adding and deleting events should only be possible via a password protected Admin area. [20 marks]
8. Newsletters: Pdf files should be uploadable via the password protected admin area. The Newsletters should be grouped on this page by year. Clicking on the title of a Newsletter should trigger a download of the pdf. [15 marks]
9. Club Matters: Just use lorem ipsum text with no subpages. [2 marks]
10. How to get there: Just use *lorem ipsum* text. [2 marks]
11. Book a Lawn: Use ActionController::Live for this feature. Have a single page with regions on the page representing “Lawns” that are available on certain days (keep to a subset of 10 days to make this manageable). Clicking on an available lawn will then record it as booked and immediately propagate the booked status out to all other users. [20 marks]
12. Links to Croquet Sites: Use the same links as *Reigate Croquet Club*. [3 marks]
13. Your HTML5 and CSS should conform to W3C best practice. [10 marks]
14. Your Ruby on Rails implementation should demonstrate conformance to Rails best practices. [10 marks]

End of Coursework Description