A company is planning to sell t-shirts with funny slogan and images on the web. You have been hired for advising the company on which would be the best practices and aspects to consider in developing a web-based system supporting the business.

Part 1: Consultancy
Write an essay describing the decisions you would need to make and the possibilities open to you in terms of the following points:

i) Criteria of user-friendly accessibility of the web-site (please consider different possible classes of users).
ii) Setting up the business domain with a provider.
iii) Choosing designs for the printing and illustrating of the t-shirts, and including copyright issues.
iv) Managing commercial aspects, e.g. taking payments from customers (please focus on one aspect).
v) The possible ways to approach the development of an online e-shop.
vi) How the business could be advertised/promoted to web clients.
vii) Which aspects regarding security should be considered. E.g., you could discuss possible guidelines and hints for the security of you registered clients.

The essay should not be more than 2000 words.

Part 2
Using HTML5, CSS and JavaScript, implement the following pages for the above business’s web site:

- A home page with menu showing links to other pages such as Order, Contact, Login, etc. With the exception of the link to Order (see below), these links do not need to work, and you do not need to create any of the other pages. What is needed is a well designed layout implemented with some CSS and HTML.
- An Ordering page which contains an
  - HTML5 canvas which shows an example t-shirt,
    - The colour of the t-shirt should be selectable
    - The user should be able to supply their own text
      You can draw a roughly shaped t-shirt using vector graphics.
  - The page should allow users to change the colour of the t-shirt, when clicking on one of four small coloured buttons to the side of the image.
  - The page should allow users to create some text to be printed on the t-shirt, and when a button is pressed, the text should be displayed on the t-shirt. You should select an appropriate colour and font size.
  - The page should allow users to select the number of t-shirts that they want (minimum order is 1), and calculate the cost at £5 per t-shirt.
  - There should be a “Submit Order” button that when clicked displays an “Alert” message that the order has been successfully submitted and lists the

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1 simply make them links using `<a href=""></a>`...<a/>. 
details: selected colour and text for each t-shirt and the number of t-shirts required.

Submit your page to CSS and HTML validation and include the results in your report. As well as the code, you should submit a brief description of your code.

What to submit
There will be a sign on one of the metal cupboards outside 4B88 with the course code CSCU9B2 on it. Print your report and post it into that cupboard before the deadline.

For part two, please look in your home drive, where you should find a folder called CSCU9B2\Assignment1. Make sure that it contains the files for your web site (HTML, CSS, JS). These will be automatically copied from this location on Tuesday, 4th April at 5pm. After that date, do not edit those files, in case there is a problem and we need to ask you to send them to us. Please make sure that all your files are in the same folder (don’t make any sub-folders) and that you name your HTML index_(studentnumber).html, for example index_4578345.html. Remember to test that it all works in that location (because if it doesn’t work in that location for you, it won’t work for us either).

Plagiarism
Work which is submitted for assessment must be your own work. All students should note that the University has a formal policy on plagiarism which can be found in http://www.stir.ac.uk/academicpolicy/handbook/assessmentincludingacademicmisconduct/ (section 6.8.4).

Plagiarism means presenting the work of others as though it were your own. The University takes a very serious view of plagiarism, and the penalties can be severe (ranging from a reduced grade in the assessment, through a fail grade for the module, to expulsion from the University for more serious, or repeated, offences). Specific guidance in relation to Computing Science assignments may be found in the Computing Science Student Handbook.

We check submissions carefully for evidence of plagiarism, and pursue those cases we find.

Late Submissions
If you cannot meet the assignment hand in deadline and have good cause, please see Dr Jingpeng Li (4B95, jli@cs.stir.ac.uk) to explain your situation and ask for an extension. Coursework will be accepted up to seven calendar days after the submission date (or expiry of any agreed extension) but the mark will be lowered by three percent per day or part thereof. After seven calendar days, the piece of work will be deemed a non-submission and will be given 0. For the avoidance of doubt, Saturday and Sunday count as two calendar days.

Advice
Should you find yourself in any difficulty, please ask for help in the lab sessions, or mail me (jli@cs.stir.ac.uk) as soon as you can! Feel free to ask for clarification of anything that you do not understand.

The assignment is worth 40% of the total grade for the course. Equal weighting will be given to the essay and the practical element.