Name: Class:

Task 1

Go to Lings Cars at: <https://www.lingscars.com/>

(a) The site has been criticised for its poor user experience. What are five areas of the home page that you believe make the user experience poor?

The site contents vary often, as such, the following suggested answers may not fully apply to any new site design

(b) Comment on other areas of the user experience such as performance, availability and accessibility.

(c) There are a number of simple and easy changes to the website that would improve its design. Why do you think that Ling has decided to keep the original style of website design?

Task 2

The responsiveness of a web page is judged by how long a user has to wait for the page to first show meaningful content. Users will often give up waiting for a page within seconds of trying.

Go to: <https://developers.google.com/speed/pagespeed/insights/>

The “First Contentful Paint (FCP)” is the time taken from a web page being requested to a web browser rendering the first part of the web page.

Try some websites that you use frequently to find the FCP load time of each. Complete the table below with your findings. The first row has been completed as an example.

|  |  |
| --- | --- |
| **Web address** | **First Contentful Paint (FCP) time (seconds)** |
| https://en.m.wikipedia.org/wiki/Tim\_Berners-Lee | 2.1 seconds |
|  |  |
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Task 3

When IT systems don’t work, they have many negative impacts on both the users of the system and those that designed and implemented them. Discuss two different impacts that poorly developed IT systems may have.

Task 4

Sadly, there are many examples of IT projects that have failed to deliver a finished product or service on time. Between 2000 and 2005, The Federal Bureau of Investigation (FBI) developed a software application called Virtual Case File (VCF). The project was cancelled whilst in the development stage with costs of around $170 million. Research the Virtual Case File project to answer the following questions.

(a) Who were the intended end users of the system?

(b) What were some of the end user needs?

(c) What reasons are given for the failure of the project?

Task 5

When new IT systems are created, thought must be given as to how the system will be brought online and used. There are numerous approaches to bringing a system live so that users can start integrating it into their daily workload routines.

Use the website <https://computersciencewiki.org/index.php/Implementation_methods> to help you complete the following questions.

(a) Identify the four main types of implementing IT systems.

(b) Compare the advantages and disadvantages of the different types of implementing IT systems.

Task 6

A 6th form college will, from September next year, be launching a new IT system. All student work that can be submitted electronically will have to be submitted using the system. All marks and feedback from teachers and tutors will need to be entered into the system.

(a) Suggest how training for the new system could be given to staff.

(b) Suggest how training for the new system could be given to students.

(c) Suggest how ongoing support could be given to both staff and students