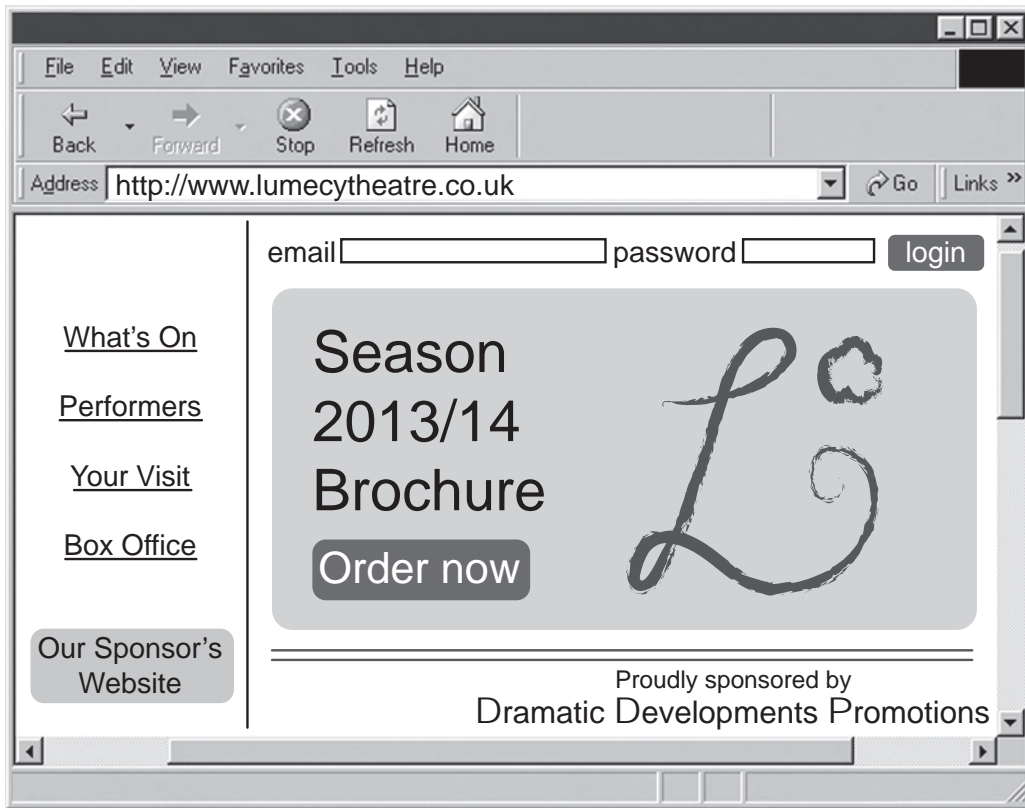18. The Lumecy Theatre homepage is shown below. It provides access to the four main sections of their website — What's On, Performers, Your Visit and Box Office. It also allows customers to go to the website of their sponsor.

(a) The *hyperlinks* are checked to make sure each one leads to the correct **web page**.

Describe **one** other test that should have taken place when this **web page** was being developed.

1

(b) Explain, using examples from the web pages above, the difference between an *internal hyperlink* and an *external hyperlink*.

2

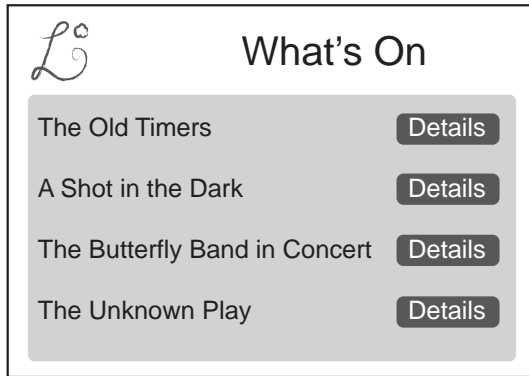**Question 18 (continued)**

Here are two sample pages from the Lumecy Theatre website.

$\mathscr{L}$ What's On	$\mathscr{L}$ Box Office
The Old Timers Details	Select your performance date
A Shot in the Dark Details	**MAY 2013**
The Butterfly Band in Concert Details	S M T W T F S
The Unknown Play Details	1 2 3 4
	5 6 7 8 9 10 11
	12 13 14 15 16 17 18
	19 20 21 22 23 24 25
	26 27 28 29 30 31
	◄ Page 2 of 6 ►
What's On web page	Box Office web page

(c) The two web pages above use different types of navigation.

Draw a diagram for each page to represent the navigation structure used.   **2**

(d) Describe **one** element of good design that could be used to aid *accessibility* in the Lumecy website.   **1**

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_____

Question 18 (continued)

(e) Lumecy stores details of its customers on a database.

   (i) State **one** principle Lumecy must comply with in terms of the **Data Protection Act**.

1

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_____

   (ii) Explain why compliance with this principle is important to **customers**.

1

_____

_____

Total marks   **8**

19. Modern cars are fitted with embedded (built-in) computers that perform a variety of functions. One of the latest functions automatically activates the brakes if the car gets too close to the car in front. For safety reasons this function is only activated at low speeds.

   (a) Automatic braking requires sensors that measure the speed of the car and the distance between the two cars.

      State the hardware that allows external devices to be connected to a computer system.

1

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