Majestic Applicant Tests

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1 Test A - Template Toolkit and Catalyst

On the Majestic website, amongst many other technologies, we use a technology called Template::Toolkit. You can read more about Template::Toolkit here: http://template-toolkit.org/

Template Toolkit separates the web pages, which can be produced in a modified form of HTML, from the rest of the program code which is written in Perl and C. We use a framework called Catalyst which enforces a separation of Model, View and Controller, often called Web MVC Template Toolkit performs a selection of mail merge type functions on html templates.

Given the following data specified in a catalyst action:

\$c -> stash -> {'Party'} = 'World';

A web page with a level one heading containing the test "Hello World" will be produced.

1.1 Question 1

For the terms Model, View, and Controller, choose which of the following three phrases best applies:

- a) Where all the business logic should reside
- b) Handles the conversion of user input into calls to the business logic
- c) Returns the webpages to the client.

1.2 Answer

a) Model

</body></html>

- b) Controller
- c) View

1.3 Question 2

Create a template file similar to the one used in the example above, which for the following data, uses Template Toolkit (and the FOREACH block directive) to create an html table displaying a list of shoe model, makes, and sizes.

```
c \rightarrow stash \rightarrow {'Shoes'} = [
            Model => 'Aggressor',
            Make => 'Shoe Co.',
             Size \Rightarrow '10'
      },
            Model => 'LookinGood',
            \begin{array}{ll} {\rm Make} \; \Longrightarrow \; {\rm 'Shoe} \; \; {\rm Co.} \; {\rm '} \; , \\ {\rm Size} \; \Longrightarrow \; {\rm '12} \; {\rm '} \end{array}
            Model => 'PowerStrike',
            Make => 'Footware Inc.',
             Size \implies 7
            Model => 'RunFast',
            Make => 'Footware Inc.',
             Size \implies '6'
            Model => 'RunFast',
            Make => 'Footware Inc.',
             Size \implies '8'
            Model => 'Lounger',
            Make => 'Comfy Shoe Ltd.',
             Size \implies '9'
            Model => 'Lounger',
            \label{eq:Make} {\it Make} \implies {\it 'Comfy Shoe Ltd.'} \,,
             Size \implies 7
      },
];
```

1.4 Answer

2 Test B - Data Visualisation