User Guide: Location Based Quiz – Question Setting App

The figures within this user guide are screenshots of the administrator question setting webpage taken when using the Google Chrome internet browser. They are numbered starting from Figure 1.

Note: A more technical guide can be found in the server repository of this github account.

Getting Started

The webpage can be opened via the following link:

   http://developer.cege.ucl.ac.uk:31288/

The running of the webpage has been tested using Google Chrome, Mozilla Firefox and Safari. Other web browsers, therefore, may not support the running of this application.
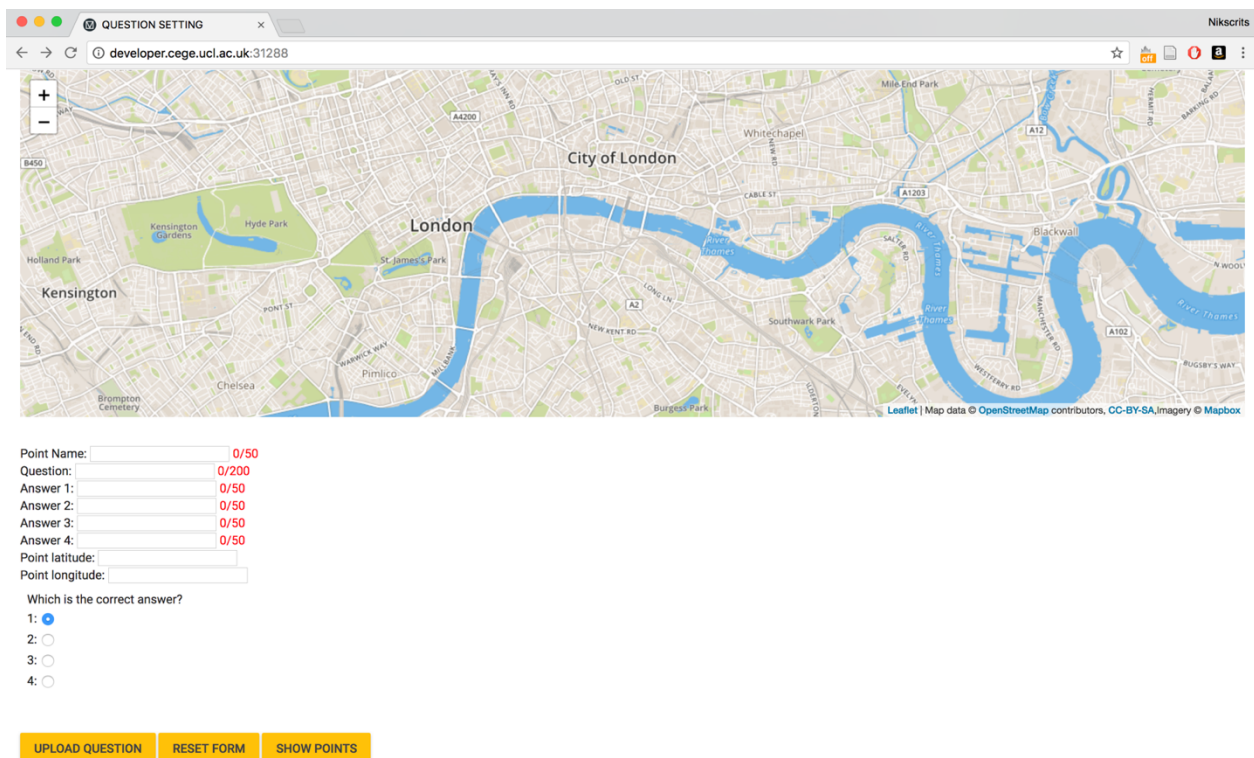
In order for the webpage to load and the questions to be sent to the database, both the **httpServer.js** and **phonegap servers** need to be running. The httpServer.js server can be found in the server repository, and is run using the command:

```
node httpServer.js &
```

The phonegap server is found within the 'ucesncr' file of the questions repository, and is run using the command:

```
phonegap serve
```

When the webpage has loaded, the following interface will be seen (Figure 1). Here you can view questions already set as markers on the map and then set more questions for the users to answer.

Figure 1: The web interface shown when the webpage initially loads.

Viewing Questions Already Set

To view questions that have already been set, the 'Show Points' button can be clicked. This gets the questions from the database and shows them as markers on the map (Figure 2). The map will automatically pan to give a view showing all of the question markers.
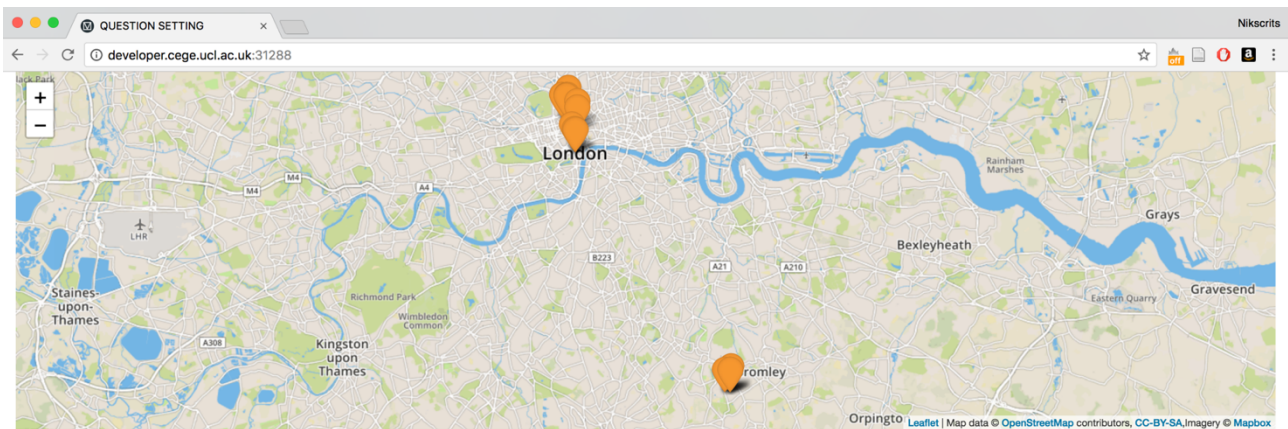

Figure 2: The map section of the interface after clicking the 'Show Points' button to add the markers to the map for the questions that have already been set.

The zoom functions can then be used to view the markers in closer detail (Figure 3). These question markers can then be clicked on to present a pop-up that gives the point name and the question (Figure 3). This is useful to help the administrator set varied questions at differing locations to where they already are.
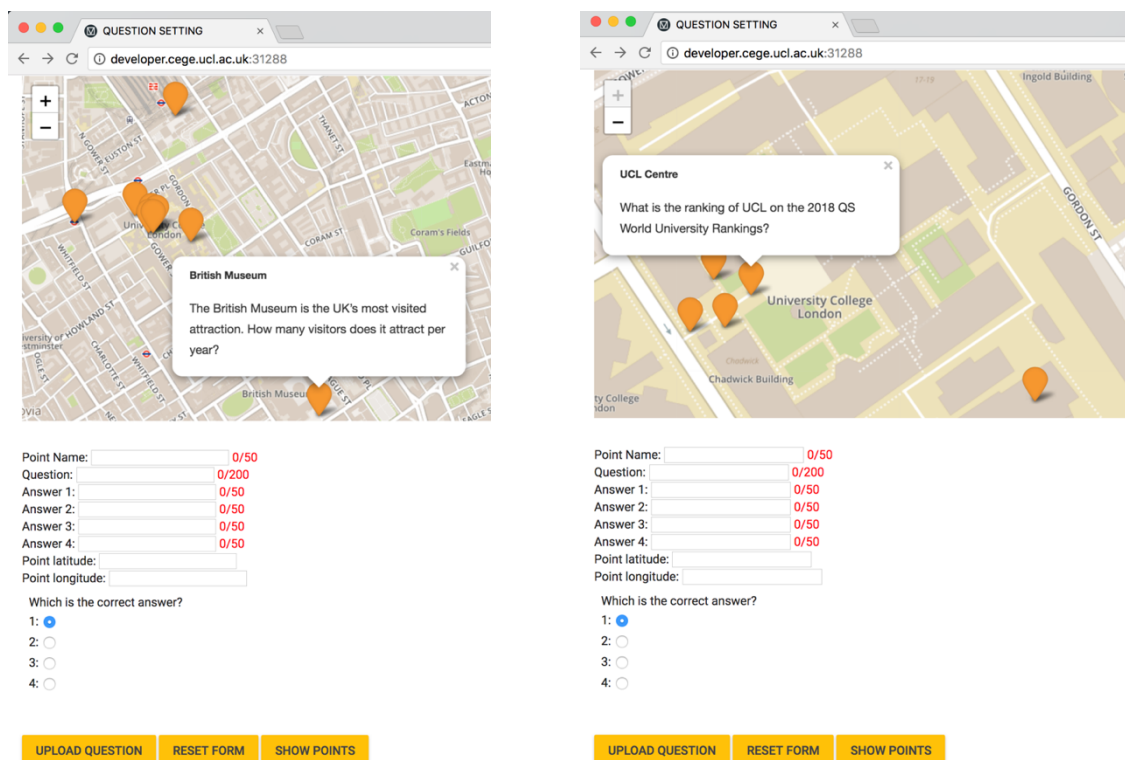

Figure 3: The pop-ups that are shown after clicking on any question marker giving information about the question marker name and the question itself.

To create new questions for the user to answer the form at the bottom of the page must be filled out (Figure 4). This involves entering the following information:

- **A question** – this can include letters, numbers and punctuation. It must be under 200 characters in length.
- **Four potential answers to the question** – this should include the correct answer as one of the options. This can include letters, numbers and punctuation. It must be under 50 characters in length.
- **The question location longitude and latitude** – this can be entered manually or by clicking on the location on the map.
- **The correct answer** – the relevant radio button should be selected indicating which answer is correct.

The form can be cleared by clicking the 'Reset Form' button.

Note: A question ID value will be assigned by the database once the question had been inserted. These values can be viewed in the database.

Figure 4: The form that is filled out to set a new question.

After the question information has been entered, click the 'Upload Question' button to save it to the database. Two alerts will then be presented (Figure 5). The first alert shows the data that will be sent to the database, the second shows that the data has be successfully added.
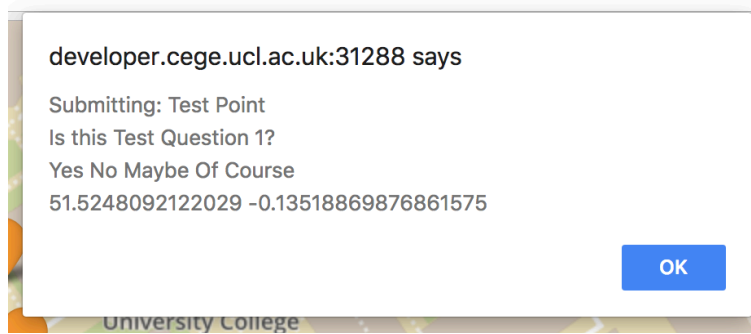
Figure 5: The alerts that are shown after pressing the 'Upload Question' button. The left alert shows the information that has been sent to the database. The right alert confirms that the question has been successfully added.

In order to view this new question point, the page must be refreshed and the 'Show Points' button clicked. The point that has been added should now appear as a marker (Figure 6).

Figure 6: After refreshing the webpage and clicking the 'Show Points' button, the new question point that has been added can be seen on the map.

Troubleshooting

- If the webpage is not loading, then check the phonegap server as it may not be running (Figure 7). Additionally, ensure one of the tested web browsers is being used.
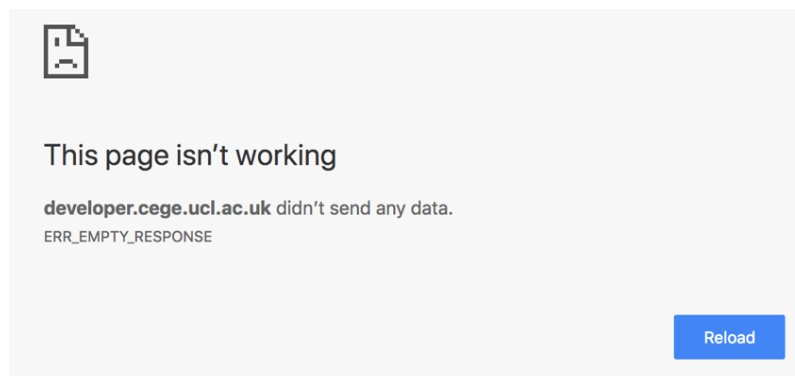

Figure 7: The webpage that is presented when attempting to load the question setting page without the phonegap server running.

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- If the questions are not loading after pressing the 'Show Points' button, then check the httpServer as it may not be running.
- If an alert appears saying 'Please fill in all fields' then one of the boxes in the form has been left empty (Figure 8). Please ensure a value is given for each field and try uploading the question again.
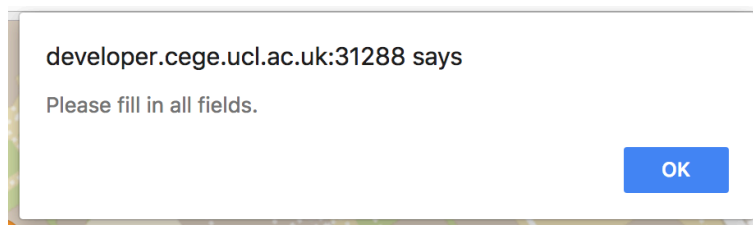

Figure 8: The alert that is shown if all of the question form boxes are not filled out.

- If the question still does not upload even after inserting a value in all fields then there may have been an issue with the information. This may include entering values of the wrong type, or values of a length that is too long. Please check the 'Setting New Questions' section of the guide for information about each field.