Software engineering group project

Deliverable 4 - Increment 3 User Guide and FAQ

	Name	ID
1	Marwan Altamimi	32489005
2	Juzheng Bai	32410964
3	Henry York	33113556
4	Jack Breslin	33055521
5	Aditya Bansal	33335052

Supervised by
Gerasim Tsonev

User Guide

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1. Getting Started

To begin using the Application, open the application and click the "Start" button on the main menu. This will take you to the upload screen.

2. Uploading Data

On the upload screen, you can upload your CSV files containing your ad campaign data, such as impressions, clicks, and server logs. To upload a file, click the "Upload" button under the respective heading and select the desired file from your device. You can upload multiple files as needed. Once the files are uploaded, the application will process the data and allow you to navigate to the different graph screens. If the files are in the incorrect format, you'll be prompted with an error.

3. Navigating the Application

a. Bar Chart Screen

The bar chart screen allows you to visualise your data in a bar chart format. To generate a bar chart, select a metric (e.g., number of impressions) and click "Apply." You can also apply filters, such as date range and audience segment, to refine your data.

b. Line Chart Screen

The line chart screen functions similarly to the bar chart screen, but with a line chart format. Select a metric and apply filters as needed to visualise your data in a line chart.

c. Histogram Screen

The histogram screen displays a histogram of click-cost data. To generate a histogram, simply click the "Generate Histogram" button.

d. Comparison Screen

The compare screen allows you to compare multiple graphs side by side. To add a graph to the compare screen, click the "Add to Compare" button on the corresponding graph page (bar chart, line chart, or histogram). You can compare up to four graphs at a time.

4. Filtering Data

Filter your data using the available filters on the bar chart and line chart screens. You can filter by date range, age range, gender, and income. To apply multiple filters at once, select the desired filters and click "Apply."

5. Saving Graphs as Images

To save a graph as an image, click the "Screenshot" button on the corresponding graph page. This will save the graph as an image on your device, as "graph.png" please make sure to rename this file before trying this again otherwise the file will be overwritten.

6. Adjusting Screen Scaling

To adjust the screen scaling, click and drag the edges of the application window. This will resize the window and its contents to fit your screen.

7. FAQs

Q: In addition to date ranges can I filter charts by time intervals, such as hours, days, and weeks?
A: Yes. There is an option for this for all types of charts in their respective creation screens, it can be found as a drop-down menu and is the bottom left button beneath the chart. By default, the time interval is set to be days.

Q: Would it cause complications if someone uploads a CSV file with the wrong data?
A: The application has precautions for user errors like this, displaying an alert message if data is not present within the CSV file. The system will also reject files that are not CSV files and will also inform the user of this mistake.

Q: How can I differentiate between the filters I have applied when comparing multiple charts?
A: On the compare page charts can be given a title. This title can include the date ranges for the chart and whichever filters the user.

Q: Can I add multiple metrics to one chart?
 A: This is not possible as the data values range drastically from metric to metric with some data being >10,000 and others being <100. This would mean displaying both metrics on one chart would greatly hurt the readability of the created charts.

Q: Can I see the created charts in more detail
A: Once a chart has been added to the compare screen the user can use the zoom feature to full screen the chart and improve their readability.

Q: Is it possible to save charts to view them again at a later point? Or will I need to recreate this chart every time I load the application?

A: Charts can be saved locally on your device as an image from the compare page, by pressing the "Screenshot" button. You cannot save charts and store them within the application itself thus cannot be edited after. To ensure a chart is final when saving them as an image. All charts and images will be saved in the current directory as "Chart.png".

Q: I am having issues where I am only able to select a limited number of metrics for my Chart. What could be causing this?

A: All three CSV files need to be uploaded successfully on the upload page before navigating to any of the chart screens to ensure there is data for all the available metrics.

Q: How many charts can be compared at once?

A: Up to four charts can be generated on the compare screen and be analysed for comparison at one time. If the user wishes to compare more Charts, they can save these charts as images and then use the reset button to reset the compare page and generate more charts. Using this method, A user can compare as many charts as they can generate.

8. Troubleshooting

If you encounter any issues or have questions about the application, please contact our support team for assistance.