2023 INTERNSHIP PROJECT

REPORTING CYCLE: Jan – May 2023

PRESENTED BY:

- Michelle Kwarteng (Team Lead)
- Rotimi Olatunde Fawumi (Ass Team Lead)
- Tajudeen Yusuf Alabi (Member)
- Daniel Okechukwu Nwaogwugwu (Member)



TEAM MEMBERS

Group 1

Michelle Kwarteng (Team Lead)

Rotimi Olatunde Fawumi (Ass Team Lead)

Tajudeen Yusuf Alabi (Member)

Daniel Okechukwu Nwaogwugwu (Member)

DATA COLLECTION AND ANALYTICAL TOOLS



SLACK

ONE DRIVE



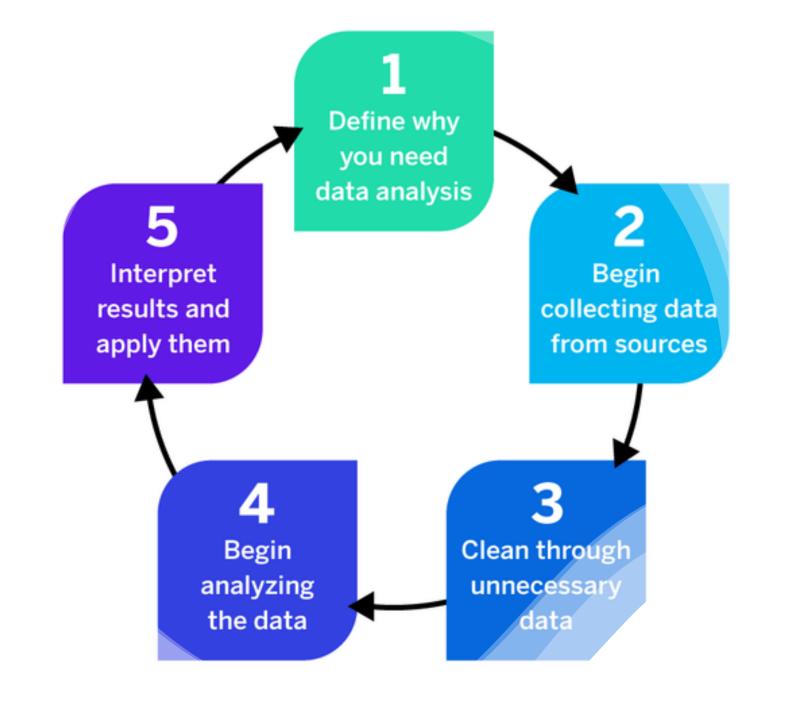
GOOGLE ANALYTICS USER TECHNOLOGY DATASET



1. MICROSOFT EXCEL



2. MICROSOFT POWER BI



TERMINOLOGIES	DEFINITIONS
Browser(Mobile and Desktop)	The browser from which user activity originated. Typical browsers include 'Chrome', 'Edge', 'Firefox', 'Internet Explorer', 'Opera', and 'Safari' which can either be on mobile or pc.
Average Engagement Time	The average time that your website was in focus in a user's browser, or an app was in the foreground of a user's device. Average engagement time = total user engagement durations / number of active users
Conversions	The number of times users triggered a conversion event.
Engaged Sessions	The number of sessions that lasted 10 seconds or longer or had 1 or more conversion events or 2 or more page or screen views.
Event Count	The number of times users triggered an event.
Engaged Session per User	The average number of engaged sessions per user. Engaged sessions is the number of sessions that lasted 10 seconds or longer or had 1 or more conversion events or 2 or more page or screen views.
Engagement Rate	The percentage of sessions that were engaged sessions. Engagement rate = engaged sessions / total sessions
New User	The number of new unique user IDs that logged the first open or first visit event. The metric allows you to measure the number of users who interacted with your site or launched your app for the first time.
User	The number of distinct users who visited your website or application. A user is any user who has an <u>engaged session</u> or when Analytics collects
Conversion Rate	The percentage of conversion events that were triggered out of the event counts. Conversion rate = conversion/event count
Bounce Rate	The percentage of unengaged sessions. Bounce rate = unengaged sessions / total sessions

KEY PERFORMANCE INDICATORS

TOP 3 BROWSERS BY NEW USERS

TOTAL USERS
ACCESSING THE
WEBSITE BY

BROWSER

TOP 3 BROWSERS WITH THE LEAST ENGAGEMENT SESSION

COMPARE THE ENGAGEMENT RATE BY BROWSER

Recommended Benchmark



Engagement Rate = minimum of 70% of Desktop and 80% of Mobile users



Average Engagement
Time = Minimum
engagement time Of
60sec with optimum
conversion



Bounce Rate = minimum of 20-30%. it should be introduced for tracking, performance, optimization, and feedback on the webpage.



Conversion Rate = minimum of 10% of desktop and 15% of Mobile users.

Overview of Digital Echoes' Google Analytics Ads



- Google Analytics collects data from websites and apps to create reports that provide insights into business.
- You can use reports to monitor traffic, investigate data, and understand users and their activities.
- 11 types of browsers were used to visit Digital Echoes' website over the course of 5 months(Jan-May).
- There are 2 types of users; existing users and new users.

Problem Statement

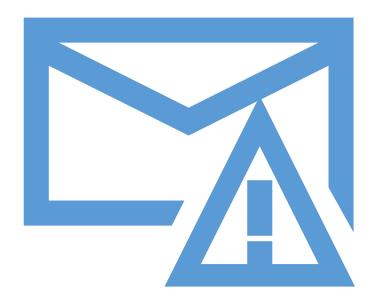
Digital Echoes is currently facing a challenge in understanding the factors influencing the variability in conversion rates. To address this issue, we hypothesise that the effectiveness of our marketing strategy significantly impacts the number of conversions generated. This hypothesis will be tested through a comprehensive analysis of historical data and the implementation of targeted strategies to improve conversion rates. The findings aim to provide actionable insights for enhancing the overall performance of our conversion efforts.

Hypothesis:

"Is the number of conversions generated significantly influenced by the effectiveness of our marketing strategy during the specified time period?"

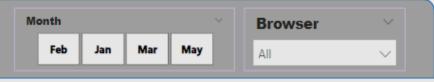
Objective:

To conduct a thorough analysis of historical data and implement targeted strategies, aiming to uncover insights that will improve overall conversion rates.





Google Analytics Report For Jan - May 2023



Total Browser

Total Users

2K

User Margin

Engaged session

2K

Total Session

4K

Avg Engagement Time

Event Count

26K

Conversion

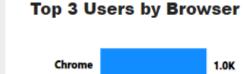
Total Revenue

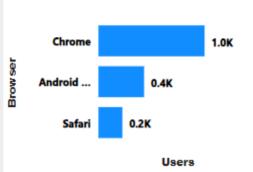
Total User By Browser

rotal ocol by bromoor	
Browser	Sum of Total Users
Amazon Silk	1
Android Webview	431
Chrome	1002
Edge	100
Firefox	100
Opera	27
Others	7
Phoenix Browser	1
Safari	226
Safari (in-app)	208
Samsung Internet	65
Total	2168

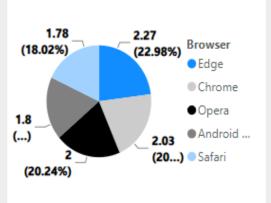
Total User By Month

Month	Sum of Total Users
Feb	142
Jan	1
Mar	0
May	2025
Total	2168

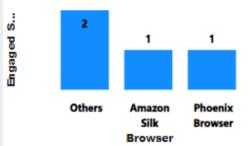




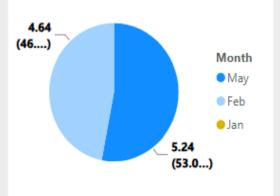
Top 5 Engaged sessions per user by Browser



Least 3 Engaged sessions by **Browser**



Engaged sessions per user by Month

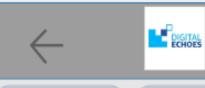


Engagement rate by Browser



Bounce rate by Browser





Google Analytics Report Jan - May 2023

Month
Feb Jan Mar May

All

Total Browser

11

Total Users

2K

User Margin

12

Engaged session

2K

Total Session

4K

Avg Engagement Time

1.61K

Event Count

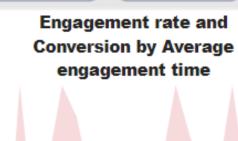
26K

Conversion

version

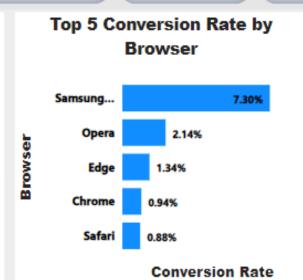
0

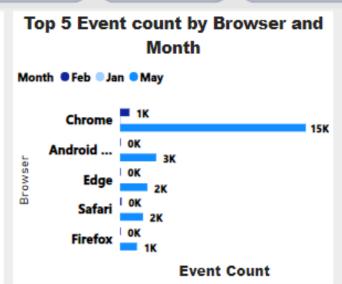
Total Revenue

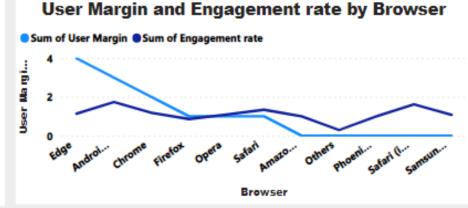


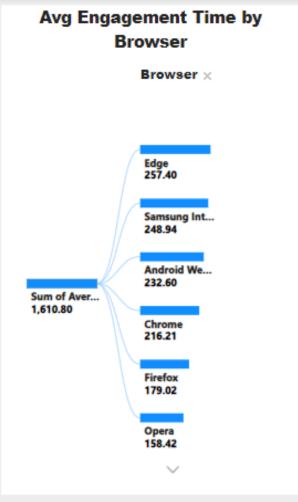
0.52

Goal: 138 (-99.62%)



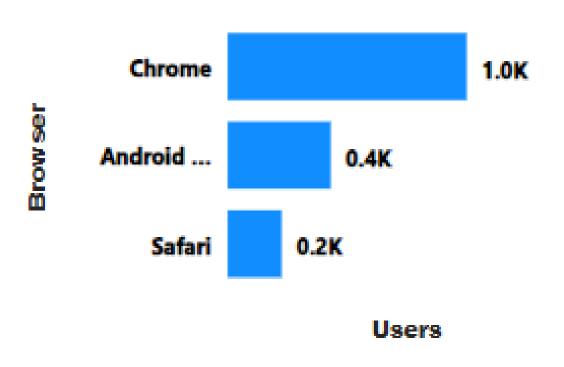






KPI 1: Top 3 Browser By New User

Top 3 Users by Browser



From the period under review:

- Chrome has the highest number of users, with a total number of 1002, followed by Android and Safari with 431 and 226 respectively.
- **Chrome users** account for about **50**% of total users.

KPI 2: Total Users By Browser

Total User By Browser	
Browser	Sum of Total Users
Samsung Internet	65
Safari (in-app)	208
Safari	226
Phoenix Browser	1
Others	7
Opera	27
Firefox	100
Edge	100
Chrome	1002
Android Webview	431
Amazon Silk	1
Total	2168

• From the table, the **browsers** with the **top 3** users are **Chrome, Android,** and **Safari** with **1002, 431** and **226** respectively while the **browsers** with the **least 3** users are **Amazon Silk, Phoenix browser,** and **others** with **1, 1,** and **7** respectively.

KPI 3: Total Users By Month

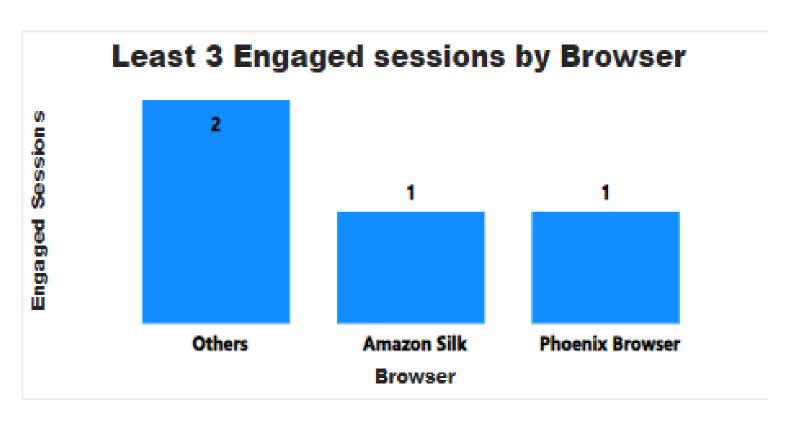
Total User By Month

Month Sum of Total Users

Feb	142
Jan	1
Mar	0
May	2025
Total	2168

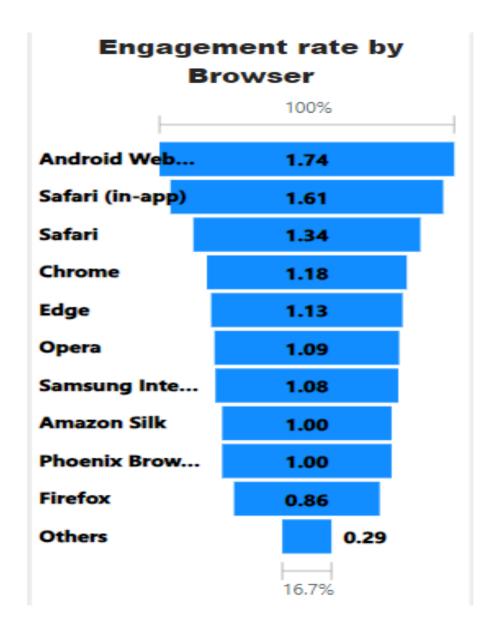
- The table shows **user** distribution by month, the month of **May** had **93.4% users** while **February** accounted for just **6.5%.**
- Users for the month of January and March were negligible while the month of April had no users.

KPI 4: Top 3 Browser with the Least Engagement Session



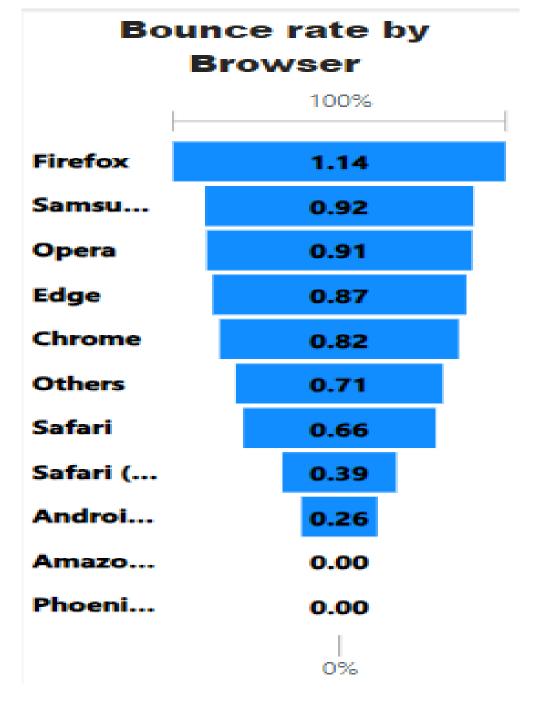
From the period under review:

 Phoenix browser and Amazon Silk had the least number of engagement sessions with just a unit engaged session each.



KPI 5: Engagement Rate by Browser

- From the Jan-May, Android and Safari(in-App) had the highest engagement rate which was 1.74 and 1.61 respectively.
- The browsers with the lowest engagement rates were firefox and others which were
 0.86 and 0.29 respectively.
- It was observed that mobile browsers users have a higher engagement rate than desktop browser users considering the data under review.
- The average **engagement rate** was **1.12.**

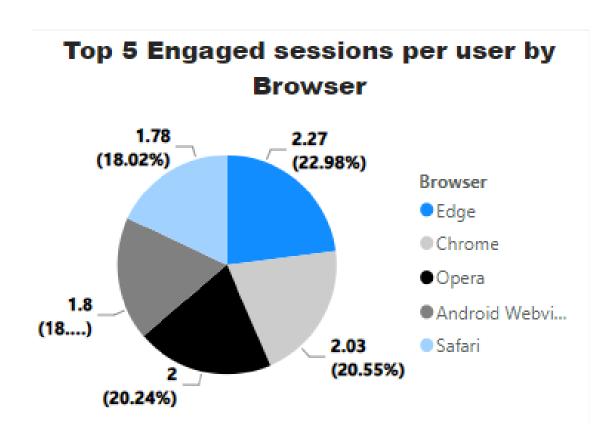


KPI 6: Estimated Bounce Rate by Browser

- From the Jan-May, Samsung internet and Opera had the highest Bounce rate which was 0.92 and 0.91 respectively.
- The browsers with the lowest Bounce rates were Chrome and Safari which were 0.82 and 0.66 respectively.
- It was observed that the browsers have a high bounce rate of an average of 60.7% considering the data under review.
- The average **estimated rate** was **0.61**.

Source: Power BI

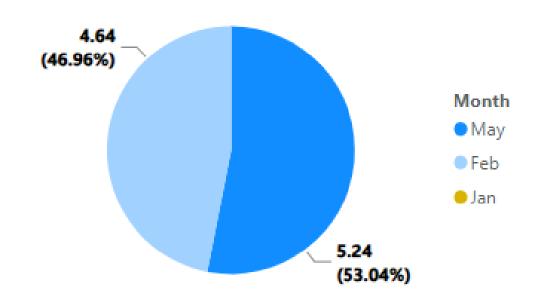
KPI 7: Total 5 Engaged Sessions per User by Browser



- 3 browsers (Edge, Chrome and Opera) accounted for **65**% of the **total engaged sessions per user.**
- Safari is the least browser with 18.02% engagement session per person of the top 5 browsers.

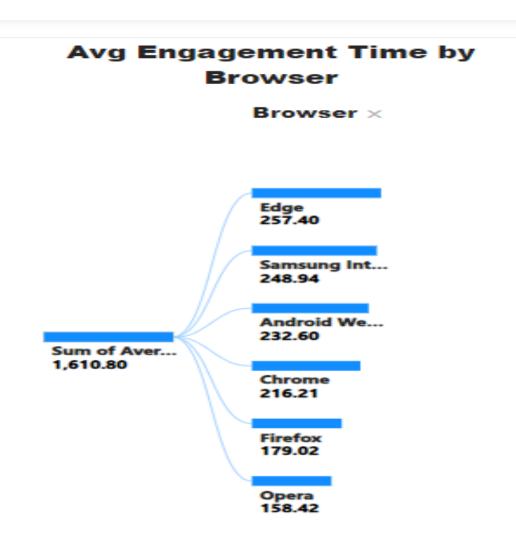
KPI 8: Engaged Sessions per User by Month

Engaged sessions per user by Month



- May account for more than 50% (specifically 53.04%) monthly engaged session per user while Feb account for slightly less than 50% (precisely 46.96%)
- The 3 other months (Jan, Mar, and Apr) left are negligible with a combined percentage of 0%
- The data was skewed and largely dependent on the month of May as well as Feb data.

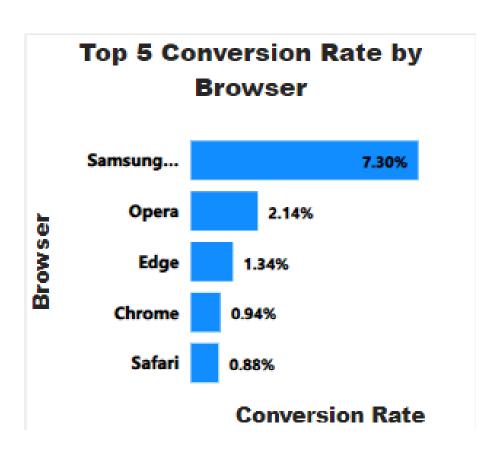
KPI 9: Average Engagement Time by Browser



From the period under review:

- The browsers with the highest average engagement time are Edge, Samsung Internet,
 Android Web view, and Chrome with their respective values of 257.40, 248.94, 232.60, and 216.21 seconds respectively
- The browsers with the lowest average engagement time are Safari (in-app), others, and Amazon Silk with 86.11, 4.29, and 3.00 seconds respectively
- It was **observed that users** tend to **spend more time** on **mobile browsers** than on **desktop browsers** which could translate to more **conversions**

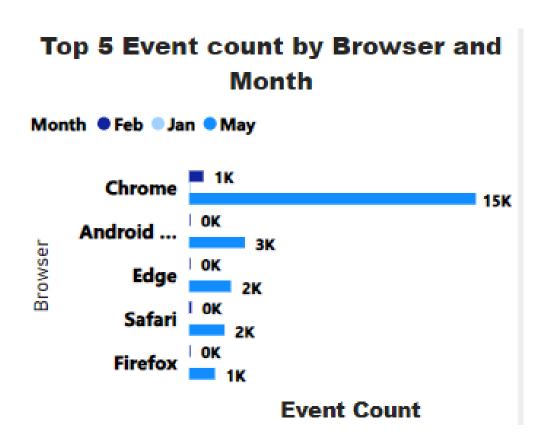
KPI 10: Top 5 Conversion Rate by Browser



- The chart shows the **rate of conversion** triggered by **the conversion event count. The data shows that Samsung had** close to 8%, which is almost **twice** the rest of the **browsers** in the **top 5**.
- It indicates that **more attention** should be given to **mobile users** to have more **conversions**.
- A higher Event Count does not guarantee more conversions, bounce rate calculation could be a suitable metric that could correct the flaws of the low conversion rate.

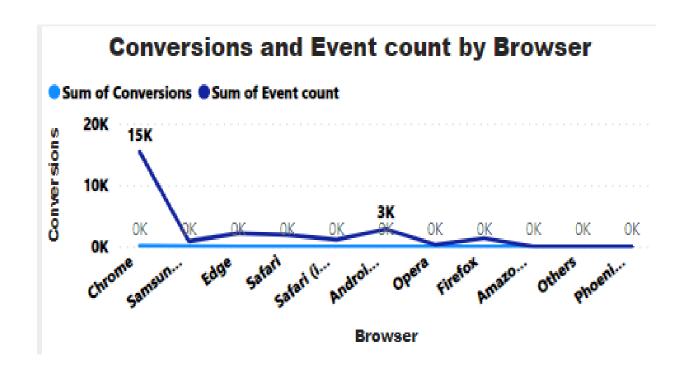
Bounce rate = $([total\ session-engaged\ session]/Total\ session)*100%$ Bounce rate = ([4000-2000]/4000)*100 = 50%Calculated bounce rate = 50%

KPI 11: Top Event Count by Browser and Month



- The chart shows that Event Counts distribution was triggered mostly in May with Chrome having 15,000 Event Counts while others and Amazon Silk are the lowest with 4 Event Counts only.
- Also, the chart shows that Chrome had the highest Event
 Count of approximately 1,000 in Feb.
- The relationship between Event Count and Conversion rate is inverse, while the average engagement time shows a direct relationship.

KPI 12: Conversions and Event Count by Browser

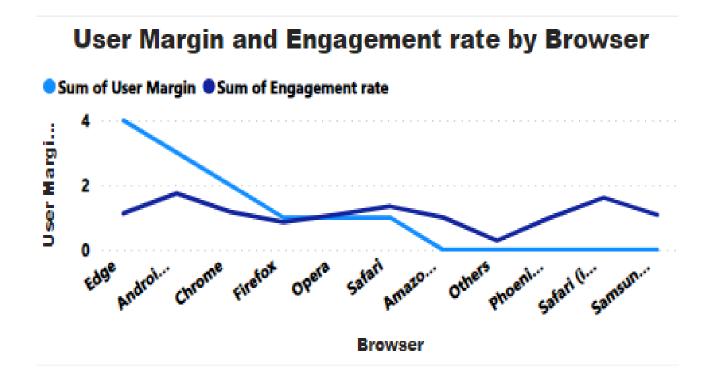


- There is an **inverse relationship** between the total number of triggered **Event Counts** and **Conversion Rate**.
- Chrome and Android account for 15,000 and 3,000 Event Counts respectively compared to the conversion that is nearly zero across all browsers.

•

• The negative correlation between Event Counts and Conversion rate is likely the cause of zero Revenue, though the website may not have been marketized to receive payment digitally.

KPI 13: User Margin and Engagement rate by Browser



- The data shows that the **Engagement Rate** was largely dependent on new users with close margins across all **browsers**.
- The total existing users is just 12 out of the total users of 2168. This implies a total of 2156 new users from Jan- May, which is 99.4%.
- The interpretation of this is that the ads are **generating traffic** to the page regularly, however, the **challenge** was with the **page** itself. It was not properly **optimized** for **conversion and retention**.

KPI 14: Conversion Target and Goal setting

The overall conversion is -99.62% with an Engagement rate of 0.52 while the average engagement time trend is tracked to monitor the conversion goal targets.

All necessary KPIs and benchmarks must be set to be able to achieve positive conversion goals. KPIs and Benchmarks such as Bounce Rate, Average Engagement Time, Engagement rate, and Event Counts with defined relationships to achieve a positive conversion.

Red: Negative Green: Positive Yellow: Neutral

Engagement rate and Conversion by Average engagement time

0.52

Goal: 138 (-99.62%)

GAP ANALYSIS OVERVIEW

Key Insights:

1. Product/Service Type

Essential for proper benchmarking.

2. Ads Channels & Metrics

Utilise email, social media (Instagram, Facebook, TikTok), YouTube, Newsletter for market understanding and optimization.

3. Browser Distribution

Analyze mobile vs. desktop for customer behavior, ad channels, and landing page optimization.

4. User Demography

Target ads based on gender, age, region for optimized conversion growth.

5. Landing Page Engagement

Analyze pages vs. Event Counts for effective engagement rate and sessions.

6. Bounce Rate Impact

Address bounce rate for improved conversions, site issues, and enhanced Google ranking.

7. Revenue Generation Clarity

Determine digital integration or offline collection to assess revenue concerns.

RECOMMENDATIONS

Address Data Gaps

Immediate resolution for critical analysis and accurate forecasting.

Integrated Marketing Campaign

Recommend new campaign aligning ads and webpage management for effective lead conversion and retainment.

Optimize Webpage for User Experience

Ensure responsive design for seamless user experience on mobile and desktop.

Bounce-Off Analysis

Properly analyze bounce off points for content, user experience, layout, or copywriting issues resolution.

Implement Feedback Systems

Introduce questionnaires, surveys, and feedback reviews for customized webpage enhancements.

Landing Page Optimization

Ensure a catchy, engaging, and user-friendly landing page catering to all demographics.

Streamlined Conversion Process

Simplify call to action to minimise event hop count and prevent users' disengagement.

CONCLUSION

The webpage exhibits a notably high overall bounce rate, estimated at 50-60.7%, indicating a substantial portion of sessions lacking engagement. This elevated bounce rate poses a significant hurdle to addressing the conversion rate challenge.

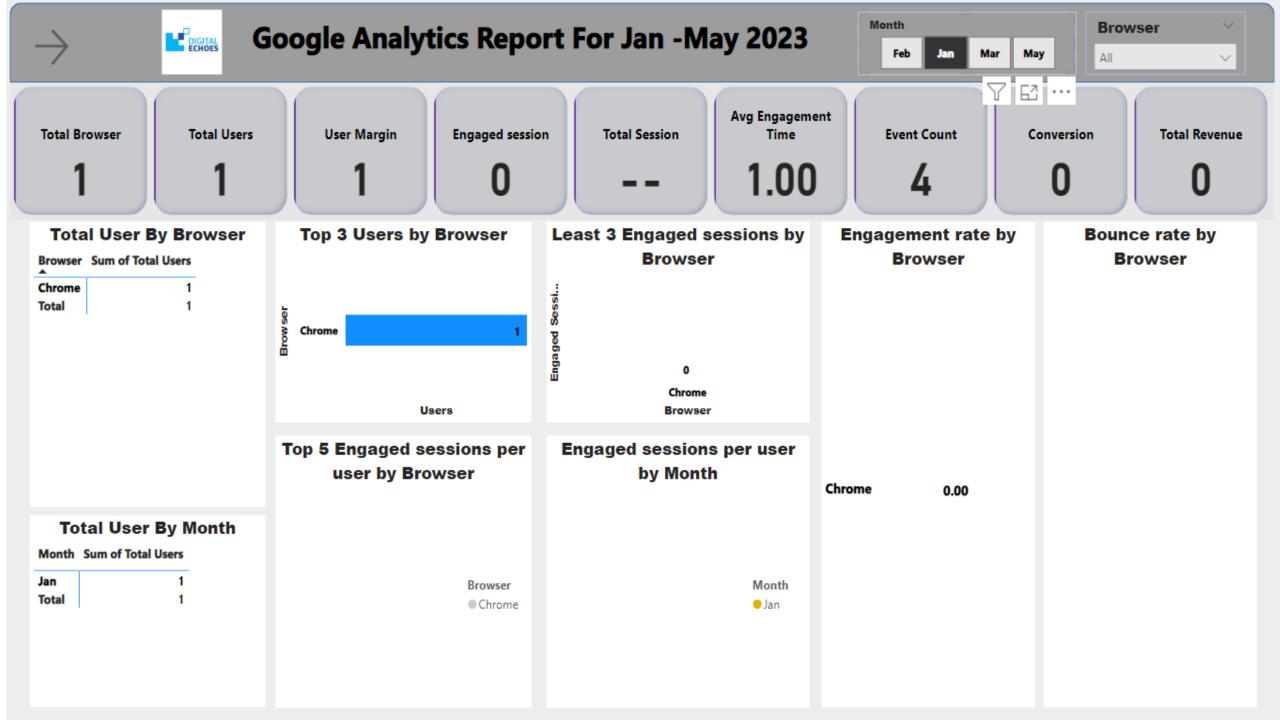
In summary, the webpage appears insufficiently optimized for conversion, despite boasting an impressive overall engagement rate of 112%. The concerning bounce rate range, particularly at 60.7%, strongly correlates with lower conversion rates.

Although lead traffic stands at a commendable 99.4%, the nearly non-existent conversion and retention highlight a critical issue. To effectively resolve this, bridging the identified gaps with precise data is essential for in-depth analysis and problem resolution.

QUESTIONS?

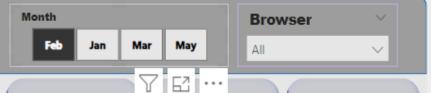








Google Analytics Report For Jan - May 2023



Total Browser

8

Total Users

142

User Margin

Engaged session

125

Avg Engagement

555....

Time

Event Count

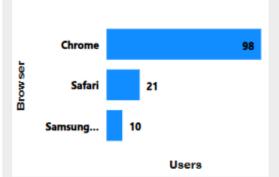
Conversion

Total Revenue

Total User By Browser

Browser	Sum of Total Users
Android Webview	1
Chrome	98
Edge	4
Firefox	4
Opera	3
Safari	21
Safari (in-app)	1
Samsung Internet	10
Total	142

Top 3 Users by Browser



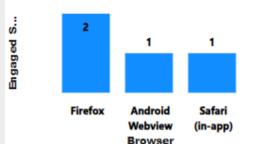
Top 5 Engaged sessions per

user by Browser

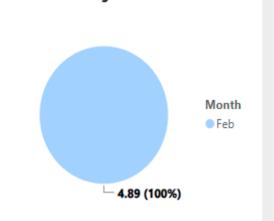
Least 3 Engaged sessions by **Browser**

Total Session

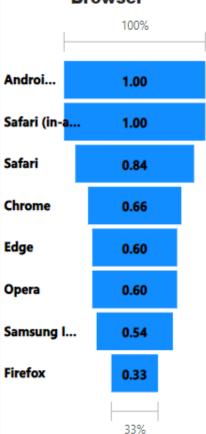
188



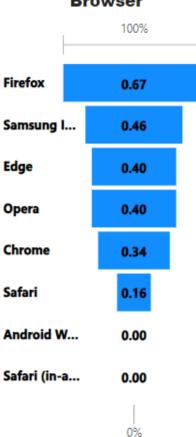
Engaged sessions per user by Month



Engagement rate by Browser

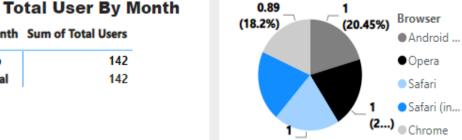


Bounce rate by Browser

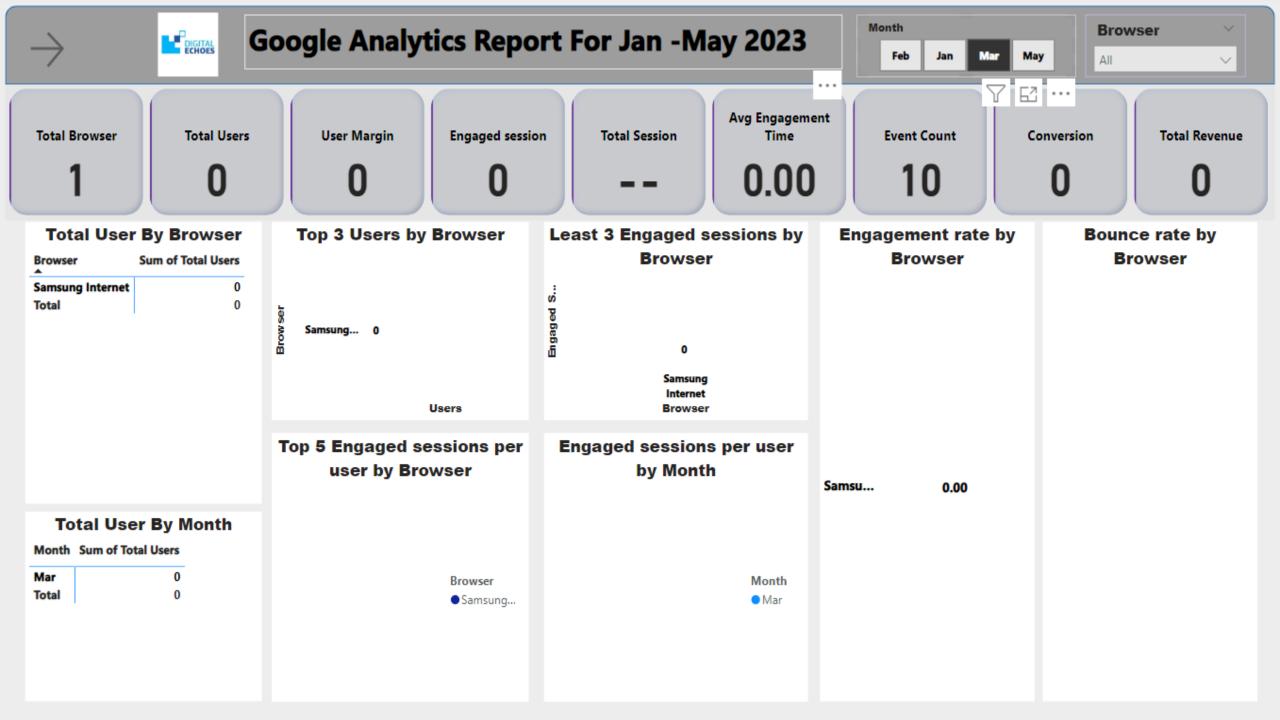


Total User By Month

Month	Sum of Total Users
Feb	142
Total	142



(20.45%)





Google Analytics Report For Jan - May 2023



Total Browser

11

Total Users

2K

User Margin

11

Engaged session

2K

Total Session

4K

Avg Engagement Time

1.05K

Event Count

25K

Conversion

Total Revenue

270

0

Total User By Browser

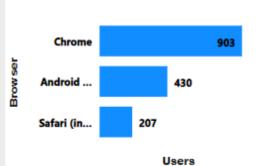
_
Sum of Total Users
1
430
903
96
96
24
7
1
205
207
55
2025

Total User By Month

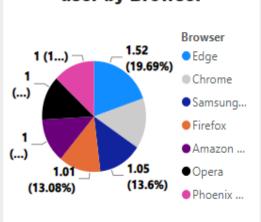
Month Sum of Total Users

May	2025
Total	2025

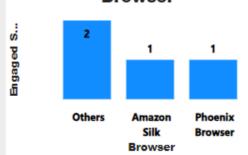




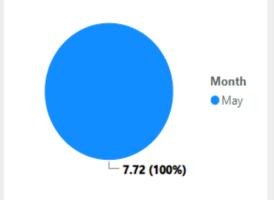
Top 5 Engaged sessions per user by Browser



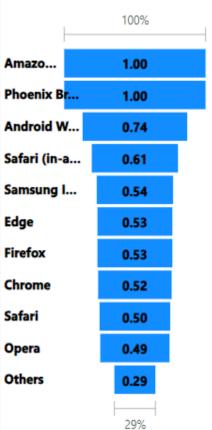
Least 3 Engaged sessions by Browser



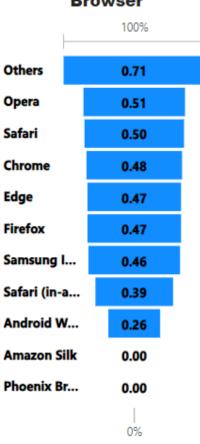
Engaged sessions per user by Month

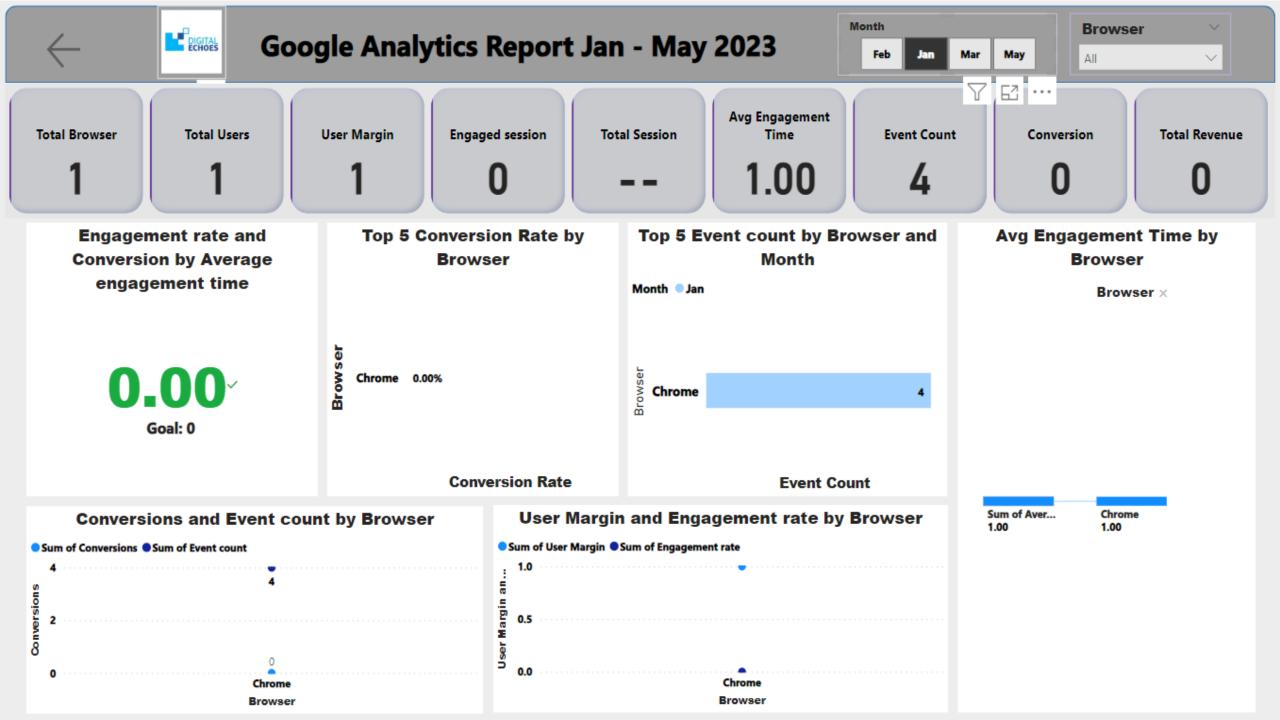


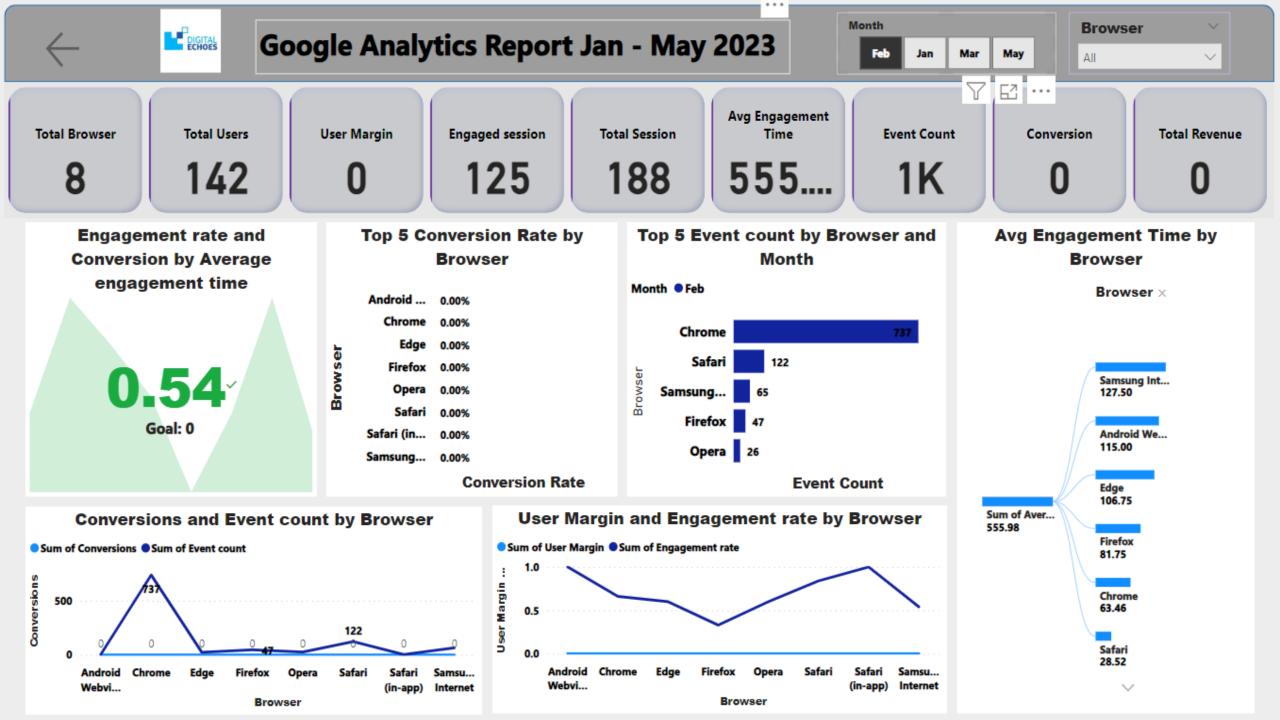
Engagement rate by Browser

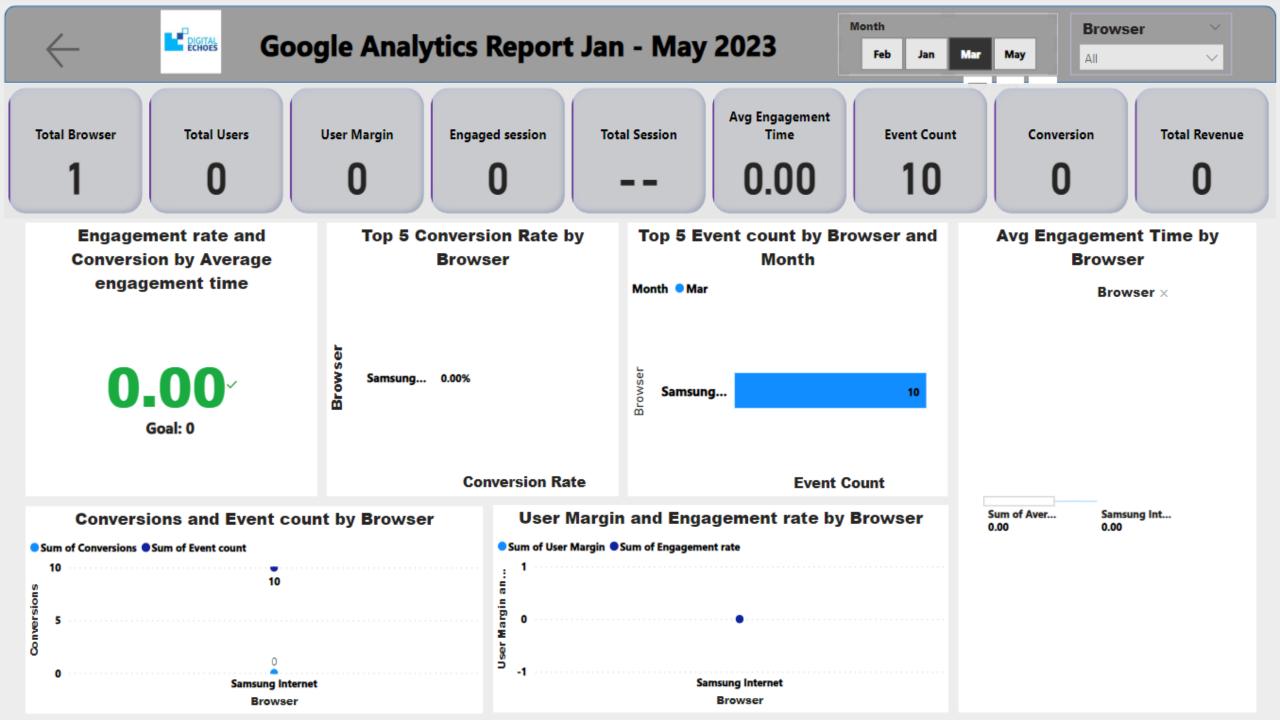


Bounce rate by Browser











Google Analytics Report Jan - May 2023

Month Feb Mar Jan All

Browser

Total Browser

Total Users

2K

User Margin

Engaged session

2K

Total Session

Avg Engagement Time

1.05K

Event Count

25K

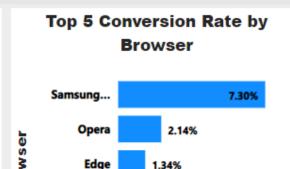
Conversion

Total Revenue

Engagement rate and Conversion by Average engagement time

0.52

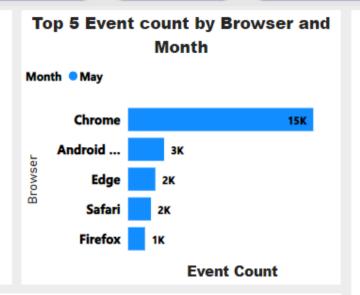
Goal: 138 (-99.62%)



Chrome

Safari

Conversion Rate



Avg Engagement Time by **Browser**

Browser x

Chrome 151.75

Edge 150.65

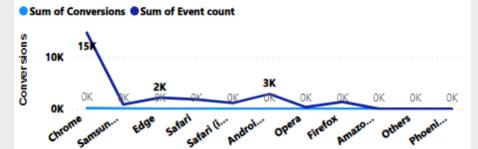
Opera 146.42

134.00

Sum of Aver... 1,053.82 Phoenix Bro...

> Samsung Int... 121.44

Android We... 117.60



Conversions and Event count by Browser

