

# Business Requirements Document (BRD)

## Meta Ad Performance Analysis

### 1. Business Objective

The business requires a **performance tracking report** for advertising campaigns running **on Facebook and Instagram**.

The report will provide visibility into:

- **Campaign reach**
- **Engagement**
- **Conversions**
- **Budget utilization**

This solution will enable the marketing team to:

- **Identify the most effective platform (Facebook vs Instagram)**
- **Track campaign ROI and optimize budget allocation**
- **Understand audience engagement patterns**

### 2. Scope of the Report

#### In Scope

- Campaigns running on **Facebook and Instagram** only
- Paid advertisements only

#### Out of Scope

- Other platforms (e.g., Messenger, Audience Network)
- Organic engagement (non-paid activity excluded)

### 3. KPIs & Definitions

KPI	Definition	Formula	Business Use
<b>Impressions</b>	Number of times ads were displayed	Count of event_type = Impression	Measure reach
<b>Clicks</b>	Number of times users clicked ads	Count of event_type = Click	Measure engagement intent
<b>Shares</b>	Number of times ads were shared	Count of event_type = Share	Measure viral engagement

<b>Comments</b>	Number of user comments on ads	Count of event_type = Comment	User sentiment & feedback
<b>Purchases</b>	Number of purchases made after viewing ads	Count of event_type = Purchase	Measure conversions
<b>Engagements</b>	Clicks + Shares + Comments	Clicks + Shares + Comments	Measure engagement volume
<b>CTR</b>	% of impressions that resulted in clicks	$(\text{Clicks} \div \text{Impressions}) \times 100$	Measure ad effectiveness
<b>Engagement Rate</b>	% of impressions that resulted in engagements	$(\text{Engagements} \div \text{Impressions}) \times 100$	Measure overall ad appeal
<b>Conversion Rate</b>	% of clicks that resulted in purchases	$(\text{Purchases} \div \text{Clicks}) \times 100$	Measure funnel efficiency
<b>Purchase Rate</b>	% of impressions that resulted in purchases	$(\text{Purchases} \div \text{Impressions}) \times 100$	Measure conversion from reach
<b>Total Budget</b>	Total spend allocated to campaigns	Sum of campaigns.total_budget	Cost analysis
<b>Average Budget per Campaign</b>	Average budget per campaign	Total Budget $\div$ Campaign Count	Budget distribution

## 4. Chart Requirements

### 1. Target Gender – Donut Chart

Visualizes performance split by target gender.

Metric displayed changes dynamically.

**Purpose:** Identify highest contributing gender segment.

## 2. Target Age Group – Bar Chart

Shows engagement **across age groups**.

Each bar represents one age group.

**Purpose:** Highlight most responsive age group.

## 3. Country – Map

Displays **performance by country**.

Bubble size or color intensity represents selected metric.

**Purpose:** Geographic performance view.

## 4. Calendar Month – Calendar Heat Map

**Displays monthly performance.**

Darker shades indicate higher activity.

**Purpose:** Detect seasonal trends and peak months.

## 5. Weekly Trend – Stacked Column Chart

A stacked column chart will **display weekly performance trends**.

X-axis: Week Number.

Stacks: Ad Type.

Y-axis: Selected metric.

**Purpose:** Compare ad type contribution over weeks.

## 6. Hourly Trend – Area Chart

An area chart will **show activity by hour of day** (from ad\_events[time\_of\_day]).

X-axis: Hour (0-23).

Y-axis: Selected metric.

**Purpose:** Understand user activity patterns during the day.

## 7. Ad Type – Matrix

A matrix visualization will show the selected metric **across ad types** and possibly break down further by platform (Facebook vs Instagram).

Rows: Ad Types.

Columns: Platform or campaign dimensions.

Values: Selected metric.

**Purpose:** Side-by-side performance comparison.