# **Functional Requirements Document (FRD)**

**Project Title:** EdTech Growth Analytics – Learnbay

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Duration: May 2024 - December 2024

**Tools:** SQL, Power BI, Excel

### 1. Project Overview

This project focuses on delivering a data-driven dashboard to analyze and optimize marketing campaign performance, user conversion patterns, and churn behavior for Learnbay's online/offline AI course offerings. The insights are intended to align product and marketing strategies and support key business decisions.

#### 2. Data Sources

Source Description

Campaign Data Google Ads, Meta Ads, SEO, Referral performance

Lead Data CRM data with lead source, sign-up date

Conversion Logs Trial-to-paid conversion dates and stages

Budget Data Monthly spend per channel

### 3. Key KPIs and Metrics

KPI	Description	Formula/Logic
CTR (Click-Through Rate)	% of viewers who clicked an ad	(Clicks / Impressions) * 100
CAC (Customer	Spend required to acquire one paying Spend / No. of Customers	
Acquisition Cost)	user	Acquired

ROI per Campaign	Return on campaign investment	(Revenue - Spend) / Spend
Conversion Rate	% of leads converting to trials or paid users	(Conversions / Total Leads) * 100
Churn Rate	% of trial users who didn't convert	(Churned Trials / Total Trials) * 100
Average Time to Convert	Lead to paid user time	DATEDIFF(Enrollment Date, Lead Date)
Cohort Retention	% of users in a group still active after defined intervals	Based on cohort tables

# 4. Dashboard Features (Power BI)

- Channel Comparison View (CTR, CAC, ROI by channel)
- Marketing Funnel Visual (Lead → Trial → Paid → Completion)
- Cohort Analysis Heatmap (conversion over weeks/months)
- KPI Scorecard (Color-coded metrics for quick health check)
- Campaign Timeline Trend Graphs
- Slicers/Filters: Time, Channel, Campaign, Course, User Stage
- Drill-through Pages for detailed cohort or campaign data

### 5. User Roles & Access

Role Access Level

Marketing Team View campaign performance & ROI

Product Team Access to user journey, churn, cohorts

Management View KPIs, executive dashboard

### 6. Assumptions

- Campaign data is standardized and pre-cleaned.
- Revenue is only counted from paid users.
- Weekly updates are manually pushed to the dashboard.

#### 7. Constraints & Risks

- Limited historical data (only recent campaigns available).
- Inconsistent campaign naming requires cleaning/mapping.
- Dependence on the Marketing team for accurate tagging.

# 8. Expected Outcomes

- Improve campaign ROI by 10% via better budget reallocation.
- Save 20+ hours/month by automating reports with SQL + Power BI.
- Enable product and marketing alignment using strategic cohort insights.

#### **End of Document**