Key:

MVP (Black Title)
Non-MVP High Priority (Orange Title)
Database Tables (Blue Box)
API Functions (Purple Box)
Class Objects (Transparent Box)

LLMInsightService
(Uses LLM API to generate summaries, insights, and contextual tips)

+string model

+str generateSpendingSummary(userId)
+list generateFinancialTips(userId)
+void applySuggestedAdjustments(userId)

— Produces →

Insight
(Returned by LLMInsightService API; displayed on Dashboard)

+uuid id
+str summary
+str tip

+void displayInsight

AuthManager
(Uses Supabase Auth API)

+string Email
+string sessionStatus

+bool LoginWithMagicLink(email)
+void logout()
+void resendVerification()
+void autoLogin()

— Creates/Manages →

Profile
(Accessed internally by AuthManager and Budget modules; stored via Supabase Database API)

+uuid user_id
+string full_name
+string preferred_currency
+int age
+string occupation

+void createProfile()
+void updateProfile(data)
+void savePreferences()

requests insights (non-MVP)

owns — 1 ... 0...*

Budget Category
(Uses Supabase Database API for CRUD operations)

+ uuid id
+ string category_name
+ float limit_amount
+ float spent_amount

+ float calculateRemaining()
+ void updateLimit(newLimit: float)

Voice Recording
(Uses OpenAI Whisper to extract text from voice inputs)

+file audio

+string extractedText

→ Provides Transcribed Text →

Transaction Manager
(Provides Internal API for transaction creation, editing, and linking receipts)

--

+void addTransaction(data)
+void editTransaction(id, data)
+uuid uploadReceipt(image)
+list getTransactions(userId)

— create/edits →

Transaction
(Stored via Supabase Database API)

+uuid id
+string merchant
+float total_amount
+string category
+date transaction_date

+void addTransaction(data)
+void editTransaction(transactionId, data)

1 — has — 0...1

Receipt
(Uses Supabase Storage API for image uploads)

+uuid id
+string storage_path
+timestamp uploaded_at

+jsonObj extractData(image)

— uses OCR / categorize →

LLM Parser
(Uses Google Gemini / Supabase Edge Function API for OCR + auto-categorization)

+string model

+jsonObj parseReceipt(image)
+string categorizeSpendingData(data)

— Transaction JSON Data →