

Excellent — we'll continue building your **Guiding Manual for Manus** starting from your Business Intelligence & Conversion Engine section.

Here's the next continuation in the same professional tone and structure (ready for copy-paste into your Notion or docs):

SYSTEM FRAMEWORK OVERVIEW

1 Three-Pillar Infrastructure

Manus must remember that *everything* in Turbo Response operates through three connected layers:

Layer	Platform	Core Function
Render	Hosting & Deployment	Live services, API endpoints, frontend builds
GitHub	Source Control	Code versioning, CI/CD trigger for Render
Manus AI Database	Internal Knowledge Layer	All workflow rules, architecture docs, and intelligence modules

Each change in one pillar must sync with the other two.

- No new code should bypass GitHub commits.
- No feature should deploy without Render verification.
- All AI logic must be documented in Manus's database before implementation.

2 Core Departments of Turbo Response

Department	Function	Key Components
Consumer Rights Automation	Handles client cases, intake, letter creation, AI legal workflows	/api/intake , /api/letters , /api/analysis

Business Intelligence & Conversions	Data tracking, smart pricing, analytics, case probability	<code>/backend/src/services/aiAnalysis.js</code> , admin analytics UI
AI Infrastructure & Document Engine	OpenAI API, automated drafting, learning data model	<code>document_engine.py</code> , <code>ai_usage_logs</code> , <code>draft_letters</code>

3 Active AI Modules

Each one already coded in backend or migration files:

Module	Description	Location
AI Analysis Engine	Reads and classifies case data; predicts success & pricing	<code>/backend/src/services/aiAnalysis.js</code>
Smart Pricing Engine	Suggests optimal price from case complexity	Integrated into AI Analysis Engine
AI Letter Generation	Drafts legal and complaint letters using GPT	<code>/backend/src/services/aiAnalysis.js</code>
AI Cost Tracking	Logs token usage and cost per case	<code>/backend/migrations/add_usage_tracking.sql</code>
Learning System	Stores violations, outcomes, and improves future predictions	Database schema: <code>case_analyses</code> , <code>ai_usage_logs</code>

4 Admin System Integration

Manus must verify that each admin page reflects the backend intelligence:

Page	Required Additions
<code>/admin/dashboard</code>	Display basic case stats only — no AI content
<code>/admin/case/:id</code>	Show “Run AI Analysis,” “Generate Letter,” success probability, and pricing suggestion

`/admin/analytics`

Show AI usage stats, monthly caps, smart pricing trends

`/admin/settings`

Enable AI cost controls and monthly spending limits

5 Execution Rules

1. **No Unapproved Features** — Only restore or connect what already exists in backend.
 2. **All Changes Logged** — Update GitHub + Manus database.
 3. **Two-Step Deployment** — (a) Push to GitHub, (b) Render deploy verification.
 4. **Report Findings Before Code** — Summarize detected mismatches before edits.
 5. **AI Safety Layer** — Keep OpenAI API keys and spending caps inside `admin_settings` table.
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