

# **Treasure Coast AI - System Architecture Manual**

## **Module 1 - Extra Safe Text Edition**

# 1. Overview of the architecture

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## 2. Layers of the system

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### 3. Multi tenant model and workspace isolation

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## 4. Request lifecycle from the user interface

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## 5. Backend service responsibilities

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## 6. Database layout and data ownership

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## 9. Analytics and reporting path

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## 10. Billing and quota enforcement path

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# 11. Security considerations and controls

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## 12. Scaling strategies and future growth

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# **Treasure Coast AI - AI Engine and Prompt Engineering Manual**

## **Module 2 - Extra Safe Text Edition**

# 1. Overview of the AI Engine

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## 2. Message Preprocessing

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### 3. Context Assembly Process

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## 4. Knowledge Base Integration

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## 5. Automation Influence on Prompts

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## 6. System Prompt Rules and Structure

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## 7. Safety Rules and Output Filtering

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## 8. Error Recovery and Retry Logic

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## 9. Token Budgeting and Efficiency

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## 10. Prompt Templates and Reusability

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# 11. Persona and Brand Voice Control

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## 12. Future Enhancements to the AI Engine

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# **Treasure Coast AI - Automation Engine Deep Dive Manual**

## **Module 3 - Extra Safe Text Edition**

# 1. Overview of the Automation Engine

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## 2. Automation Version One Rule System

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### 3. Keyword Trigger Logic

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## 4. Office Hours and Availability Logic

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## 5. Fallback and Default Response Rules

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## 6. Lead Capture Automation Behavior

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## 8. Node Based Flow Builder Design

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# 11. Variable Storage and Runtime Memory

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## 13. Delay Nodes and Timing Logic

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## 14. Automation Error Handling and Recovery

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## 15. Automation Version Three Roadmap

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## 16. Advanced Trigger Types for V3

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## 17. Multi Flow Sequencing and Linking

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## 18. Automated Pipeline Movement Logic

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## 20. Future Expansion and Long Term Design

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# **Treasure Coast AI - Developer Handbook**

## **Module 4 - Extra Safe Text Edition**



# 1. Overview of Developer Responsibilities

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## 14. AI Pipeline Code Responsibilities

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## 17. Analytics Code and Reporting Logic

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# **Treasure Coast AI - API Reference Manual**

## **Module 5 - Extra Safe Text Edition**

# 1. Overview of the API Architecture

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## 5. Knowledge Base Endpoints

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## 6. Automation Endpoints

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## 7. Conversation and Message Endpoints

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## 11. Usage and Quota Endpoints

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## 12. System Log Endpoints

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## 14. Validation and Sanitization Rules

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## 15. Rate Limits and Throttling Behavior

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## 16. Security Considerations for API Use

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## 17. Workspace Isolation Rules in API Calls

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## 19. Deprecation Strategy for Endpoints

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## 20. Long Term API Evolution Roadmap

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