

## AI Prompt Library – User Guide

### Pre-Design Architecture Sanity Check | Leadership Questions | Cost vs Value Justification

**Audience:** Delivery Leaders, Architects, Directors, Client-facing Engineering Managers

**Goal:** Provide reusable prompts and usage guidance to improve architecture decisions, leadership readiness, and investment justification.

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### How to Use This Guide

1. Pick the task you need (Architecture / Leadership questions / Financial justification).
  2. Copy the **Prompt Template** section into ChatGPT (or your AI tool).
  3. Fill the **Inputs** fields with your real content.
  4. If the prompt asks clarifying questions, answer them and re-run.
  5. Copy the final output into your design doc / email / PPT.
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### Common Standards (Apply to All 3 Prompts)

#### Quality Rules

- Keep tone **neutral, factual, and solution-oriented**
- Prefer **business impact and risk language** over technical jargon
- Use **structured Markdown output** for easy copy/paste

#### Clarification Rule (Ask Before Answering)

If any essential information is missing, the AI must ask questions first—do not guess.

#### Diagram Rule (When requested)

- Use **simple boxes + arrows**
  - Flow direction: **Left → Right**
  - Show: entry points, core services, data stores, integrations, and failure points
  - Keep it **leadership and PPT-friendly**, not implementation-heavy
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### 1) Pre-Design Architecture Sanity Check

## Purpose

Identify architecture risks and gaps **before** implementation—so you can prevent performance issues, reliability failures, and late rework.

## When to Use

- Before architecture freeze / design sign-off
- Before client/leadership design reviews
- When introducing new flows (new service, major feature, new integration)

## What You Get

- “Architecture as understood” summary
  - Strengths
  - Risk and gap table (scalability, security, reliability, operability)
  - Assumptions
  - Recommendations (before build + post MVP)
  - Diagram-ready architecture flow
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## Prompt Template (Copy-Paste)

### TASK

Perform a **pre-design architecture sanity check** to identify risks, gaps, and improvement areas before implementation.

### CONTEXT

- Audience: Architecture reviewers, delivery leaders, senior stakeholders
- Domain: Enterprise web / API / cloud systems
- Goal: Catch scalability, security, reliability, and operability risks early

### RULES

1. Focus on architectural soundness, not code-level details
2. Evaluate scalability, security, reliability, and operability
3. Explicitly call out assumptions and hidden dependencies
4. Be constructive and solution-oriented
5. Avoid blame language

## **CLARIFICATION RULE**

Ask before proceeding if unclear:

- Expected scale (users / transactions / peak load)
- Deployment model (cloud / hybrid / on-prem)
- Compliance constraints (HIPAA/HITRUST/SOC2/etc.)

## **INPUTS**

Proposed Architecture Description:

<PASTE HERE>

## **REQUIRED OUTPUT FORMAT**

### **Architecture Overview (As Understood)**

#### **Strengths**

#### **Risks & Gaps**

| Area | Observation | Risk Level | Notes |

#### **Key Assumptions**

#### **Recommendations**

- Immediate (Before Build)
- Near-term (Post MVP)

## **DIAGRAM REQUIREMENT**

Include a **high-level architecture flow diagram** that shows:

- Entry points
- Core components
- External integrations
- Data stores
- Failure/retry points

Use this structure:

**Diagram Nodes:** Node → Responsibility

**Connections:** From → To : Purpose

**Callouts:** latency/failure points, assumptions

## **SELF-REVIEW CHECK**

- Would this prevent rework later?
- Are risks realistic and actionable?
- Is this suitable for leadership review?

Return output in Markdown.

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### **Example Use Case (Realistic)**

**Scenario:** Provision Preview API before CCR execution

- UI triggers preview
  - API aggregates Product/Benefit/Pricing data
  - Rule engine generates text
  - Stores preview temporarily
  - Returns preview to UI
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## **2) What Questions Will Leadership Ask?**

### **Purpose**

Anticipate leadership questions before steering committee / client reviews, so you walk in prepared.

### **When to Use**

- Before leadership status reviews
- Before roadmap/budget approvals
- Before escalation calls
- Before presenting architecture or delivery plan

### **What You Get**

- High-probability leadership questions grouped by category
  - Why leaders ask each question
  - What answer pattern they expect (risk/impact/plan/ownership)
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### **Prompt Template (Copy-Paste)**

## **TASK**

Generate the **most likely leadership questions** for the proposal/update below, and explain what leaders expect to hear.

## **CONTEXT**

- Audience: Executives, Directors, Clients
- Goal: Prepare for decisions, approvals, and risk discussions
- Focus: impact, timelines, risk, dependencies, accountability, cost/value

## **RULES**

1. Think like a skeptical but reasonable leader
2. Prioritize business impact over technical depth
3. Group questions by theme
4. Provide the “expected answer shape” (not full answers unless asked)

## **CLARIFICATION RULE**

Ask before proceeding if unclear:

- Audience type (internal / client)
- Meeting type (approval / review / escalation)
- What decision is required (if any)

## **INPUTS**

Proposal / Update Summary:

<PASTE HERE>

## **REQUIRED OUTPUT FORMAT**

### **High-Probability Leadership Questions**

#### **A) Delivery & Timeline**

For each question:

- Q:
- Why they ask:
- What they expect to hear:

#### **B) Risks & Mitigation**

- Q:

- Why they ask:
- What they expect to hear:

### C) Cost & Value

- Q:
- Why they ask:
- What they expect to hear:

### D) Dependencies & Stakeholders

- Q:
- Why they ask:
- What they expect to hear:

### E) Ownership & Accountability

- Q:
- Why they ask:
- What they expect to hear:

## OPTIONAL VISUAL AID

If helpful, include a **simple decision/risk map**:

- Decision points
- Cost vs risk trade-offs
- Timeline dependencies

## SELF-REVIEW CHECK

- Would these questions be asked in a real steering committee?
- Are they decision-oriented and outcome-focused?
- Do they reveal gaps in the proposal?

Return output in Markdown.

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## 3) Cost vs Value Justification Builder

### Purpose

Create a leadership-ready justification for funding/headcount/tools—focused on outcomes, value, and risk of inaction.

### **When to Use**

- Budget approvals
- Headcount requests
- Vendor/tool investment proposals
- Scope expansion discussions

### **What You Get**

- Executive summary
  - Cost overview (one-time + recurring if possible)
  - Value/benefit narrative
  - Risks of not investing (cost of delay / quality risk / compliance risk)
  - Recommendation
  - Simple visual guidance for PPT
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### **Prompt Template (Copy-Paste)**

#### **TASK**

Create a **leadership-ready cost vs value justification** for an initiative or investment.

#### **CONTEXT**

- Audience: Executives, Finance, Client stakeholders
- Goal: Support a decision quickly (approve / defer / reject)
- Style: Business-first, risk-aware, concise

#### **RULES**

1. Frame value in outcomes, not features
2. Include “cost of inaction” and “cost of delay”
3. Avoid exaggerated ROI claims
4. Keep it concise and decision-ready

#### **CLARIFICATION RULE**

Ask before proceeding if unclear:

- Approval context (budget/headcount/vendor/tooling)
- Time horizon (quarter/annual)
- Any constraints (capex/opex, budget ceiling, compliance urgency)

## INPUTS

Initiative / Ask:

<PASTE HERE>

Estimated Cost:

<PASTE HERE>

Expected Benefits (quant + qual):

<PASTE HERE>

## REQUIRED OUTPUT FORMAT

### Executive Summary

### Cost Overview

- One-time costs:
- Recurring costs:
- Resourcing impact:

### Value & Benefits

- Business outcomes:
- Delivery outcomes:
- Risk reduction outcomes:

### Risks of Not Investing

- What happens if delayed 1 quarter?
- What happens if not funded this year?

### Recommendation

- Recommended option and why
- Key trade-offs

## DIAGRAM REQUIREMENT (PPT-FRIENDLY)

Provide 1 simple visual concept:

Option A: Cost Stack vs Benefit Outcomes

Option B: Timeline (Investment → Payoff → Risk reduction)

Option C: Risk exposure chart (if delayed)

Output in:

- Diagram Nodes
- Connections
- Callouts

### **SELF-REVIEW CHECK**

- Can an executive decide in 2 minutes?
- Is value stronger than cost and clearly expressed?
- Are assumptions explicit?