Architecture Overview for <*System Name*>

<*Project Name*>

<*Your Name*>

<*Organization / Team*>

December 4, 2025
v0.1 (Draft)

Outline

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Problem Statement: Business / Mission Context

Goal of this section: Explain *why* <*System Name*>exists.

- **Business context**
  - [TODO: Summarize the domain and business environment.]
  - [TODO: Identify key customers / users / stakeholders.]
- **Problems / pain points**
  - [TODO: Describe main problems the system addresses.]
  - [TODO: Highlight current limitations of existing solutions (if any).]
- **Desired outcomes**
  - [TODO: List measurable business or mission outcomes.]

Problem Statement: Key Functional Requirements

Goal of this slide: Capture the essence of what the system must *do*.

- **Core capabilities**
  - [TODO: Capability 1 (short phrase).]
  - [TODO: Capability 2.]
  - [TODO: Capability 3.]
- **Critical use cases / scenarios**
  - [TODO: Scenario A (1 line).]
  - [TODO: Scenario B (1 line).]
- **Out of scope (for this release)**
  - [TODO: Briefly note key items that are intentionally out of scope.]

Problem Statement: Qualities and Constraints

Goal of this slide: Make non-functional drivers explicit.

Quality Attributes

- [TODO: Availability (e.g., 99.9% uptime).]
- [TODO: Performance (e.g., response time, throughput).]
- [TODO: Security (e.g., compliance, threat model).]
- [TODO: Scalability / elasticity.]
- [TODO: Modifiability / extensibility.]

Constraints

- [TODO: Technology constraints (e.g., mandated platforms, languages).]
- [TODO: Organizational constraints (e.g., team structure, vendor policies).]
- [TODO: Regulatory / legal constraints.]
- [TODO: Operational constraints (e.g., deployment environments).]

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Architecture Strategy: Drivers and Challenges

Goal of this slide: Show the main forces shaping the architecture.

- **Top architectural drivers**
  - [TODO: Driver 1 (e.g., extreme scalability).]
  - [TODO: Driver 2 (e.g., strict regulatory compliance).]
- **Key challenges**
  - [TODO: Challenge 1 (e.g., multi-tenant isolation).]
  - [TODO: Challenge 2.]
- **Success criteria**
  - [TODO: How will we know the architecture is “good enough”?]

Architecture Strategy: Styles and Patterns

Goal of this slide: Summarize the big structural ideas.

- **Primary architectural styles**
  - [TODO: E.g., layered architecture.]
  - [TODO: E.g., microservices / SOA.]
  - [TODO: E.g., event-driven / pub-sub.]
- **Major patterns / tactics**
  - [TODO: Example: CQRS, Saga, Circuit Breaker, etc.]
- **Rationale**
  - [TODO: Explain how the chosen styles respond to the main drivers.]

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System Context Overview

Goal of this slide: Show the system as a black box and its environment.

- **<*System Name*>as a black box**
  - [TODO: One-sentence description of what <*System Name*>does.]
- **External actors / systems**
  - [TODO: Actor / System 1.]
  - [TODO: Actor / System 2.]
  - [TODO: Actor / System 3.]
- **Interaction types**
  - [TODO: E.g., HTTP APIs, message queues, file exchange, UI.]

System Context Diagram

Goal of this slide: Visualize boundaries and external interfaces.

- [TODO: Insert system context diagram (image / exported figure).]
- [TODO: Clearly mark system boundary and externals.]
- [TODO: Annotate key interfaces (names, protocols).]

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Goal of this slide: Introduce which views will be shown.

- **Selected views**
  - [TODO: Decomposition view (module structure).]
  - [TODO: Runtime C&C view (components and connectors).]
  - [TODO: Deployment / allocation view.]
  - [TODO: Data model view (if applicable).]
- **Selection rationale**
  - [TODO: Explain briefly why these views are sufficient for this overview.]

Decomposition View: Primary Diagram

Goal of this slide: Show major modules / subsystems and their relations.

- [TODO: Insert module/decomposition diagram.]
- [TODO: Add a brief legend explaining symbols and line styles.]
- [TODO: Highlight few key modules (e.g., core domain, integration).]

Decomposition View: Responsibilities and Structure

Goal of this slide: Explain what the major modules *do*.

Key Modules

- [TODO: Module A (1-line responsibility summary).]
- [TODO: Module B.]
- [TODO: Module C.]

Design Intent

- [TODO: Explain decomposition principles (e.g., cohesion, separation of concerns).]
- [TODO: Mention layering or dependency rules.]

Runtime C&C View: Primary Diagram

Goal of this slide: Show runtime components and their communication.

- [TODO: Insert C&C diagram (services, processes, connectors).]
- [TODO: Include legend for component types and connector types.]
- [TODO: Highlight key runtime pathways (e.g., request path, event flow).]

Goal of this slide: Link structure to qualities (performance, reliability, etc.).

- **Performance / scalability**
  - [TODO: Explain scaling strategy (e.g., stateless services, sharding).]
- **Reliability / resilience**
  - [TODO: Describe redundancy, failover, retry patterns.]
- **Security**
  - [TODO: Mention key security boundaries, authN/Z components.]

Deployment View: Environment Topology

Goal of this slide: Show where components run physically / virtually.

- [TODO: Insert deployment diagram (nodes, zones, clusters).]
- [TODO: Distinguish environments (dev / test / prod) if relevant.]

Deployment View: Concerns and Constraints

Goal of this slide: Explain deployment-related constraints and reasoning.

- **Infrastructure**
  - [TODO: Cloud provider(s), on-prem, hybrid, etc.]
- **Network and security**
  - [TODO: Network zones, firewalls, VPNs, TLS, etc.]
- **Operational concerns**
  - [TODO: Monitoring, logging, backup/restore strategy (at high level).]

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Key Scenarios Overview

Goal of this slide: Introduce which scenarios will be walked through.

- [TODO: Scenario 1: e.g., “User registration and login”.]
- [TODO: Scenario 2: e.g., “Background batch processing”.]
- [TODO: Scenario 3: e.g., “Failure and recovery from node outage”.]

Scenario #1: [TODO: Scenario Name]

Goal of this slide: Show how the architecture behaves end-to-end.

- **Trigger / preconditions**
  - [TODO: What starts the scenario? What must be true first?]
- **Main flow**
  - [TODO: Step-by-step description of the flow across components.]
  - [TODO: Optionally reference a sequence diagram or state machine.]
- **Qualities exercised**
  - [TODO: Which qualities this scenario demonstrates (e.g., performance, availability).]

Change Scenario: [TODO: Example Change]

Goal of this slide: Show how architecture responds to future change.

- **Change description**
  - [TODO: Describe an anticipated change (e.g., add new integration).]
- **Affected views / components**
  - [TODO: Which modules, components, and deployments are impacted?]
- **Effort and risk**
  - [TODO: Qualitative assessment of cost, risk, and complexity.]

Failure Scenario: [TODO: Example Failure]

Goal of this slide: Show how the system behaves under failure.

- **Failure event**
  - [TODO: E.g., node outage, network partition, dependency failure.]
- **Detection and response**
  - [TODO: How is the failure detected? Which components respond and how?]
- **User impact and recovery**
  - [TODO: What is the visible impact? How and when is normal operation restored?]

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Major Architectural Decisions

Goal of this slide: Make key decisions and their rationale explicit.

- [TODO: Decision 1: short statement (e.g., “Adopt microservices”).]
  - [TODO: Rationale: why this is chosen.]
  - [TODO: Implications: pros / cons.]
- [TODO: Decision 2.]
- [TODO: Decision 3.]

Key Risks and Mitigations

Goal of this slide: Highlight major architecture-related risks.

- [TODO: Risk 1: description.]
  - [TODO: Probability / impact (qualitative).]
  - [TODO: Mitigation / contingency.]
- [TODO: Risk 2.]
- [TODO: Risk 3.]

Open Questions and Next Steps

Goal of this slide: Be explicit about unresolved issues.

- **Open questions**
  - [TODO: Question 1 (e.g., unresolved technology choice).]
  - [TODO: Question 2.]
- **Next steps**
  - [TODO: What will happen after this review?]
  - [TODO: Decisions needed and by when.]

Outline

Stakeholders and Views (Reference)

Goal of this slide: Show mapping from stakeholders to views.

- [TODO: Stakeholder A: relevant views / concerns.]
- [TODO: Stakeholder B: relevant views / concerns.]
- [TODO: Stakeholder C: relevant views / concerns.]

Glossary (Reference)

Goal of this slide: Clarify important terms and acronyms.

- [TODO: Term 1 — short definition.]
- [TODO: Term 2 — short definition.]
- [TODO: Acronym 1 — expanded form.]

Additional Diagrams (Reference)

Goal of this slide: Provide extra diagrams for deep dives.

- [TODO: Diagram 1: e.g., detailed subsystem view.]
- [TODO: Diagram 2: e.g., data model / schema snip.]