# Abbreviations & Acronyms Reference (SDLC Autonomous Agent System)

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## General SDLC & Process

* **SDLC** — Software Development Life Cycle
* **PRD** — Product Requirements Document
* **ADR** — Architecture Decision Record
* **MVP** — Minimum Viable Product
* **SLO** — Service Level Objective
* **SLA** — Service Level Agreement
* **RCA** — Root Cause Analysis
* **HITL** — Human-In-The-Loop
* **KB** — Knowledge Base
* **DAG** — Directed Acyclic Graph
* **IaC** — Infrastructure as Code
* **SRE** — Site Reliability Engineering / Engineer

## Development & Collaboration

* **API** — Application Programming Interface
* **CI/CD** — Continuous Integration / Continuous Deployment (or Delivery)
* **PR** — Pull Request
* **QA** — Quality Assurance
* **PM** — Product Manager / Product Management
* **UX** — User Experience
* **UI** — User Interface
* **Repo** — Repository (e.g., GitHub repository)
* **KB** — Knowledge Base
* **SBOM** — Software Bill of Materials
* **OSS** — Open Source Software
* **ADR** — Architecture Decision Record

## Testing & Quality

* **TDD** — Test Driven Development
* **BDD** — Behavior Driven Development
* **E2E** — End-to-End (testing)
* **SAST** — Static Application Security Testing
* **DAST** — Dynamic Application Security Testing
* **Fuzzing** — Automated input testing with unexpected/random values

## Security & Compliance

* **SecOps** — Security Operations
* **OPA** — Open Policy Agent
* **SBOM** — Software Bill of Materials
* **SAST** — Static Application Security Testing
* **DAST** — Dynamic Application Security Testing
* **CVE** — Common Vulnerabilities and Exposures
* **MITRE ATT&CK** — Matrix of adversary tactics & techniques
* **RBAC** — Role-Based Access Control

## Deployment & Infra

* **IaC** — Infrastructure as Code
* **VM** — Virtual Machine
* **K8s** — Kubernetes
* **ECS** — Elastic Container Service (AWS)
* **Terraform** — IaC tool
* **Pulumi** — IaC tool
* **Canary** — Partial deployment to test before full rollout
* **SBOM** — Software Bill of Materials
* **SLI** — Service Level Indicator
* **MTTR** — Mean Time to Recovery

## Observability & Ops

* **APM** — Application Performance Monitoring
* **OTel** — OpenTelemetry
* **RUM** — Real User Monitoring
* **MTTF** — Mean Time to Failure
* **MTTR** — Mean Time to Repair/Recover
* **CI** — Continuous Integration (sometimes confused with Confidence Interval in stats)
* **CDN** — Content Delivery Network

## Miscellaneous

* **LLM** — Large Language Model
* **NLP** — Natural Language Processing
* **JSON** — JavaScript Object Notation
* **YAML** — YAML Ain’t Markup Language
* **SDK** — Software Development Kit
* **CLI** — Command Line Interface
* **GUI** — Graphical User Interface
* **VCS** — Version Control System

➡️ This list should evolve as the system grows. Next step: link this reference in the **team wiki** and auto-generate cross-links whenever an acronym appears in artifacts.