

Microservices, API and Integration - Service Description Document

Summary:

At Sandhata Technologies Ltd, we specialize in providing cutting-edge IT solutions centred around microservices architecture and API integration. Our expert team leverages the latest technologies and best practices to help businesses streamline operations, enhance agility, and drive innovation. From designing scalable microservices architectures to seamlessly integrating disparate systems through APIs, we offer comprehensive services tailored to meet the unique needs of our clients.

Services:

1. Microservices Architecture Design:

- We analyse your existing infrastructure and business requirements to design scalable and resilient microservices architectures.
- Our architects leverage containerization technologies such as Docker and orchestration platforms like Kubernetes to deploy and manage microservices effectively.
- We ensure proper service isolation, loose coupling, and independent scalability to maximize agility and maintainability.

2. Microservices Development:

- Our experienced developers utilize microservices design patterns and frameworks to build lightweight, independently deployable services.
- We employ languages like Java, Python, Node.js, and frameworks like Spring Boot and Flask to develop microservices tailored to your specific needs.
- Continuous integration and continuous delivery (CI/CD) pipelines are set up to automate the build, test, and deployment processes, ensuring rapid delivery with high quality.

3. API Integration Services:

- We facilitate seamless integration of disparate systems, applications, and data sources through well-defined APIs.
- Our experts design and develop APIs that enable efficient communication and interoperability between systems.
- We implement API management solutions to govern, secure, and monitor API usage, ensuring compliance and performance optimization.

4. Legacy System Management & Modernization:

- We help modernize legacy monolithic applications by breaking them down into microservices and exposing functionality through APIs.
- Our team assists in refactoring legacy code, identifying microservices boundaries, and migrating data to modern platforms.
- Modernization efforts focus on improving agility, scalability, and time-to-market while minimizing disruption to existing operations.
- We also manage legacy monolithic applications (like TIBCO), ensuring you can run your platform while you modernise.

5. API Security and Governance:

- We implement robust security measures such as authentication, authorization, encryption, and rate limiting to protect APIs from unauthorized access and malicious attacks.
- API governance frameworks are established to ensure adherence to standards, versioning policies, and documentation requirements.
- Regular security audits and vulnerability assessments are conducted to identify and address potential risks proactively.

6. Monitoring and Analytics:

- We deploy monitoring and analytics solutions to gain insights into the performance, usage, and health of microservices and APIs.
- Tools like Prometheus, Grafana, ELK Stack, and API analytics platforms provide real-time visibility and actionable intelligence.
- Monitoring dashboards and alerts enable proactive problem detection and resolution to maintain service reliability and availability.

7. Consultation and Training:

- We offer consultation services to assess your IT landscape, define microservices and API strategies, and develop implementation roadmaps.
- Customized training programs are available to upskill your team on microservices architecture, API design, development best practices, and operational aspects.

At Sandhata Technologies Ltd, we are committed to helping businesses embrace the power of microservices and API integration to drive digital transformation and achieve competitive advantage. Contact us today to learn how we can help you unlock the full potential of your IT estate.