GLOSSARY OF SAP
S/4HANA MOBILE DEVELOPMENT KIT (MDK)

A Quick Reference Guide to SAP Terminologies

SAP S/4HANA MDK
Key Concepts

Concept/Term	Definition
SAP S/4HANA MDK	A development toolkit that allows for building mobile applications that connect to SAP S/4HANA systems using pre-configured templates, accelerators, and components.
Mobile Development Kit (MDK)	A framework within SAP that enables rapid development of mobile apps, leveraging a low-code approach for business users and developers.
Low-Code Development	A software development approach that allows users to build apps with minimal hand-coding using visual interfaces and pre-built components.
SAP Fiori	SAP's user interface design standard that ensures a consistent, responsive, and user-friendly experience across devices and applications, integrated with MDK.
App Development	The process of creating mobile applications that can run on smartphones and tablets, connecting to SAP S/4HANA using the MDK platform.

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Concept/Term	Definition
SAP Mobile Platform	A platform that enables mobile application development and integration with SAP solutions, like S/4HANA, for enhanced mobility and real-time business processes.
Mobile App Generator	A tool that automates the creation of mobile app skeletons, providing basic code and structure to accelerate app development using MDK.
Offline Mode	The capability for mobile apps to function without a live connection to the server, storing data locally and syncing when the connection is restored.
Syncing Data	The process of transferring data between mobile devices and SAP systems to ensure consistency and up-to-date information across platforms.
UI Components	Pre-built interface elements like buttons, forms, and lists that are used in MDK to design the user interface of mobile apps.

Concept/Term	Definition
App Logic	The underlying code or functionality that defines the behavior of the app, including handling user interactions, processing data, and making system calls.
Data Services	The mechanisms for accessing and managing data within SAP S/4HANA that are exposed to mobile apps, including retrieving, updating, and deleting records.
Web Services	A set of protocols used to enable communication between mobile apps and SAP back-end systems, typically using HTTP and XML or JSON formats.
OData Services	A protocol used in SAP for creating and consuming RESTful APIs to connect mobile apps with SAP back-end data and services, used heavily in MDK.
SAP S/4HANA Cloud Platform	SAP's cloud solution that integrates with MDK for creating and deploying mobile apps that connect with SAP S/4HANA data and functionality.

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Concept/Term	Definition
Mobile App Security	The practices and tools used to ensure the security of mobile applications, including encryption, authentication, and secure data transmission.
App Deployment	The process of distributing a mobile app to end users, including packaging, testing, and submitting the app to mobile app stores or enterprise app repositories.
App Lifecycle	The stages a mobile app goes through from development to deployment, maintenance, and eventual retirement.
Push Notifications	A messaging service that allows mobile apps to send notifications to users even when the app is not actively running, used for alerts and updates in MDK apps.
App Configuration	The process of customizing app behavior and appearance, such as setting up local settings, user permissions, and integrating with SAP backend systems.

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Mobile Data Binding	The technique used to connect data sources (such as SAP backend data) to user interface elements in a mobile app, allowing data to be displayed dynamically.
Cloud Connectivity	The process of linking mobile apps to cloud-based SAP solutions, ensuring that apps can access real-time business data and services.
SDK (Software Development Kit)	A set of software development tools provided by SAP to create mobile apps using the MDK framework, including libraries, documentation, and APIs.
App UI Design	The visual and interactive components of an app that allow users to interact with the app, designed using MDK's visual editor.
App Testing	The process of ensuring that the mobile app functions as expected, including unit testing, UI testing, and performance testing.

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Concept/Term	Definition
Hybrid App Development	Building mobile apps that can run on multiple platforms (iOS, Android) using a single codebase, typically supported by the MDK framework.
Mobile App Performance	Ensuring that the mobile app is optimized for speed, responsiveness, and resource consumption, ensuring a smooth user experience.
User Authentication	The process of verifying the identity of users when accessing the mobile app, typically using credentials or biometric data.
App Debugging	The process of identifying and fixing errors or bugs within a mobile app, using tools like the MDK debugger or remote debugging features.
App Logging	A method of recording app events, actions, and errors to monitor and troubleshoot app performance, often used during development and post-deployment.

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App Updates	The process of modifying or enhancing a mobile app after it is deployed, including bug fixes, new features, or performance improvements.
App Localization	The process of adapting a mobile app to different languages, regions, and local settings, ensuring a personalized user experience for diverse markets.
App Accessibility	Ensuring that the mobile app is usable by people with disabilities, such as supporting screen readers or providing high contrast text and buttons.
Offline Syncing	The ability for mobile apps to store data locally when offline and automatically synchronize it with the server when the connection is restored.
REST API	A commonly used architecture for building APIs in SAP, allowing mobile apps to interact with data and services via standard HTTP requests in JSON format.

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Concept/Term	Definition
Mobile App Interface	The interaction between the user and the mobile app, designed to be intuitive, responsive, and aligned with SAP Fiori principles.
Mobile App Customization	The process of tailoring a mobile app to specific user needs or business requirements by adjusting its features, UI elements, and behavior.
App Code Management	The process of managing the source code for mobile applications, including version control and collaboration among developers.
Multi-Platform Deployment	Deploying mobile applications across multiple platforms (e.g., iOS, Android) with minimal changes to the app's underlying codebase.
Performance Tuning	The process of optimizing a mobile app's performance by reducing load times, improving responsiveness, and minimizing memory usage.

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Mobile Backend Services (MBS)	The back-end services that support mobile apps, including authentication, data storage, and integration with SAP S/4HANA or other business systems.
App Analytics	The process of gathering and analyzing app usage data, such as user behavior, app crashes, and performance metrics, to improve app functionality.
App User Experience (UX)	The design and usability of the mobile app, focusing on how easily users can navigate the app and perform tasks, ensuring satisfaction and efficiency.
App Scalability	The ability of a mobile app to handle increased loads, whether due to more users, more data, or more complex transactions, without performance degradation.
Data Encryption	The process of securing sensitive data transmitted or stored by the mobile app, ensuring that unauthorized users cannot access or alter it.

Concept/Term	Definition
App Resource Optimization	The process of managing the mobile app's resources (e.g., memory, CPU, network) efficiently to ensure smooth performance even on lower-end devices.
App Distribution	The process of distributing the app to users, whether through enterprise app stores, public app stores, or direct distribution.
Device Management	The process of managing mobile devices that run the app, including updates, security, and compliance with organizational policies.
App Compliance	Ensuring that the mobile app adheres to regulatory requirements and security standards, such as GDPR for data protection or HIPAA for healthcare apps.
Cloud-Native Apps	Apps developed specifically to run in cloud environments, taking full advantage of cloud services such as scalability and flexibility.

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