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OpenSAP: Managing Business Systems Intelligently
Alexis Tisdale
ICS 373: Database Management
Longwood University

Integration – The Key to the Intelligent Enterprise
This first course focuses on SAP's current and upcoming technologies that can help streamline the migration to an Intelligent Enterprise. The unit covers multiple topics: Integration Styles & Technologies, Cross-Technologies, and Integration Setup / Operations. At a minimum, SAP offers three basic applications that act as a central hub for business management and information systems. SAP Fiori works as an SAP-specific centralized hub for both Human Resource and S/4 HANA applications, allowing for a streamlined login process between the applications. A step up from Fiori, SAP CoPilot is an Intelligent Enterprise tool that manages multiple business applications and uses self-learning to tailor itself to the applications. CoPilot also employs text and speech recognition, so interaction between business modules becomes much easier. An up- and coming software, SAP InScribe, will allow for both text and voice recognition, specifically for big data calculations and analysis.

Create and Deliver Cloud-Native SAP S/4HANA Extensions
SAP's Application Programming Interface (API) strategy includes two primary types of APIs: REST (Representational State Transfer) and SOAP (Simple Object Access Protocol), which are used with synchronous responses and use commands such as GET, POST, DELETE, and SOAP (Simple Object Access Protocol), which is preferred for asynchronous messaging and is a protocol for exchanging information in distributed environments.

What is SAP SE & OpenSAP?
OpenSAP is an extension of the German-based company SAP SE, which makes enterprise software for business operations and customer relations. SAP stands for "Systems, Applications and Products in Data Processing." In English, this translates to "Systems, Applications & Products in Data Processing." The company ranks on the Euro Stoxx 50 Index and is headquartered in Germany with offices in over 180 countries and over 335,000 customers worldwide. SAP creates Enterprise Resource Planning software (ERP), Cloud extensions, and SAP S/4HANA business suites. OpenSAP is SAP SE's free informational site, offering Massive Open Online Courses (MOCs) that help users become more familiar with their products and the evolving digital world. The courses combine concepts like machine learning, big data, digital transformation, data science, and the Internet of Things in order to better prepare users for an ever-changing business world.

ERP – Enterprise Resource Planning, Software that businesses use to manage daily operations including, but not limited to: accounting, procurement, sales, management, and manufacturing. ERP eliminates the need to access multiple systems and allows users to enter data once and use it in as many places as necessary.

SAP S/4HANA – SAP’s ERP for their HANA relational database management system.


Cloud computing – the delivery of: servers, DBMS, storage, networking, analytics, and intelligence over the Internet so as to reduce cost while increasing innovation, flexibility, performance, and scale. Security is often considered a risk.

Paas / SaaS – Platform as a Service & Software as a Service. Paas deals with on-demand environments for cloud computing. SAP uses their SAP Cloud Platform as a Paas. SaaS is a method for delivering applications over the Internet, usually via subscription. SAP's SaaS is S/4HANA Cloud.

SAP HANA – SAP’s DBMS that combines database servers, data processing, and application platform analytics and stores them for fast access.

Technical Terms
ERP – Enterprise Resource Planning. Software that businesses use to manage daily operations including, but not limited to: accounting, procurement, sales, management, and manufacturing. ERP eliminates the need to access multiple systems and allows users to enter data once and use it in as many places as necessary.

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SAP HANA – SAP’s DBMS that combines database servers, data processing, and application platform analytics and stores them for fast access.

Want to learn more?
Integrating SAP Cloud Platform with OpenSAP to create and deliver cloud-native SAP S/4HANA extensions.

A House of Cards
Intelligent Enterprise is a necessity in the modern world. With the Internet of Things (IoT) enabling the global network to be used, companies can now find ways to automate, enhance, and differentiate their products and services.

InScribe
Want to learn more?
Explaining The Process
To gain a sense of the company's cloud programming and application developers, it is important to understand the core functionality of cloud computing as a whole and the potential applications available. Cloud computing is a network of servers and data centers that can be used to store and process data, and it can be accessed from anywhere with an internet connection.

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