

CampusNexus Architecture

Transform Your Institution
with CampusNexus

CampusNexus Architecture

CampusNexus[®] provides a broad spectrum of functionality driven by a best-in-class Student Information System, Constituent Relationship Management system, and Finance, HR & Payroll system geared toward enabling the transformation and success of higher education institutions. As institutions respond to the changing landscape brought about by pressures stemming from competition, delivery, funding, and outcomes, they are seeking technology solutions that can help them transform as they address these challenges.

CampusNexus is that next-generation solution. It features an evolutionary and agile architecture that provides the foundational tools that schools need to thrive in this new era.

CampusNexus Architecture

Built on Microsoft Technologies

CampusNexus is built using Microsoft® technologies. We've chosen Microsoft as our foundation because of its history and reputation for providing enterprise-ready tools and platforms. Moreover, Campus Management has a long history of leveraging Microsoft technologies, resulting in deep-rooted knowledge and expertise in its use. So when we planned for our CampusNexus architecture, building on a Microsoft foundation was the clear choice. Plus, Microsoft is a familiar technology to higher education, which has proven to make the adoption and use of CampusNexus an easy transition for institutions.

The underlying architecture of CampusNexus leverages:

- Microsoft .NET® as an application foundation
- Microsoft SQL Server® as a database platform
- Microsoft SharePoint® for portal functionality
- Microsoft Windows Workflow Foundation to extend functionality
- Microsoft Power BI for business intelligence

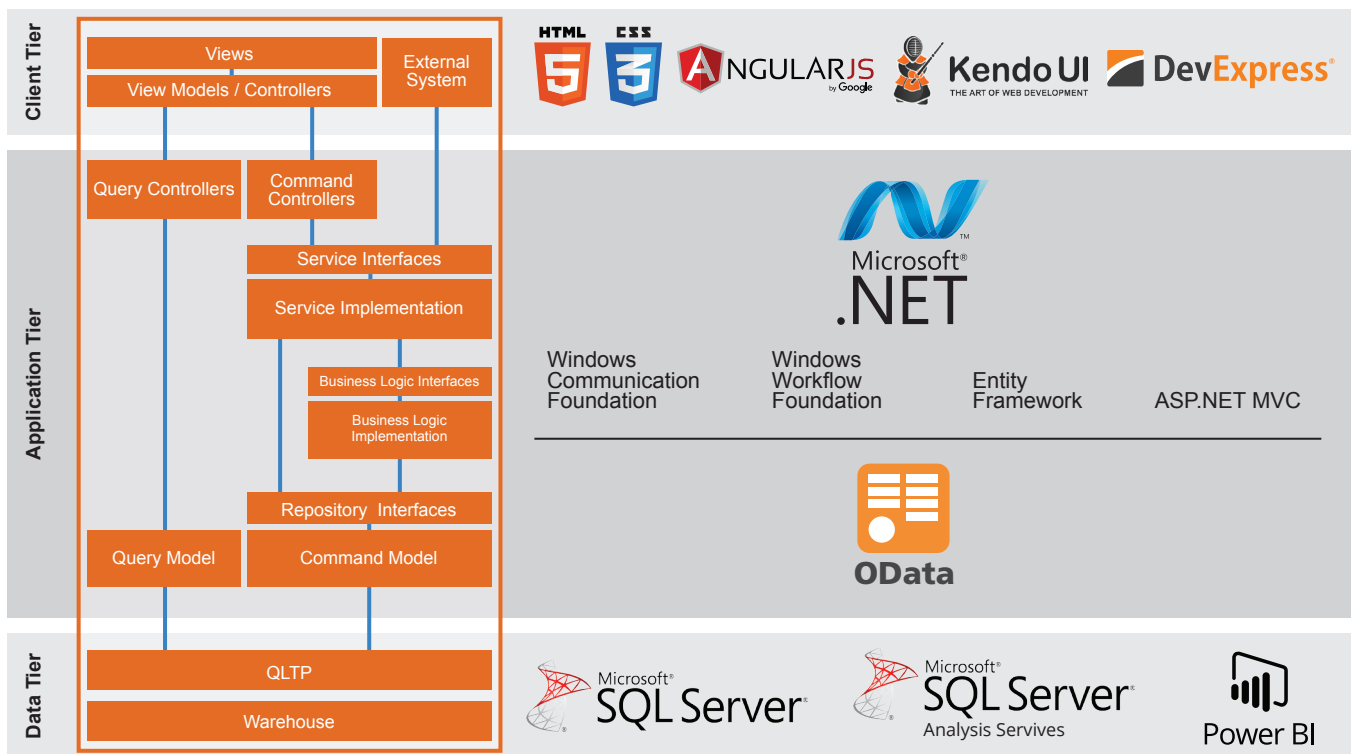
Evolutionary Reference Architecture

CampusNexus has a modern architecture designed for maximum extensibility to enable institutions to execute their strategic playbooks, while at the same time providing control, scalability, performance, and supportability. Whether you are an existing Campus Management customer or new to us, rest assured that with our proven approach to delivering additional architectural features over time, there will be minimal impact to your business operation.

Highlights of the Reference Architecture within CampusNexus include:

Presentation Layer – Provides a modern and responsive design that scales and functions across devices in order to accommodate users who may be at work, at home, or on-the-go.

Data Layer – Provides a higher education centric data schema with extensibility for detailed analytics, dashboards, and inter-system integrations supporting self-service business intelligence and ad-hoc “slicing and dicing” of data.



CampusNexus Architecture: flexible, scalable, and secure

CampusNexus Architecture

Event-Driven Architecture – Provides an open and extensible methodology for business processes to raise and subscribe to events. The Event Driven Architecture (EDA) supports Workflow as an out-of-the-box subscriber, but it can also publish messages to a Service Bus or Enterprise Application Integration (EAI) platform.

Application Components – Provide features for maximizing functionality and usage across the CampusNexus product suite. These include:

- **Workflow** – Extend CampusNexus business processes in order to adapt to the needs of today and tomorrow. Use Workflow to visually compose and track these processes, and involve both systems and people as participants in automated processes.
- **Portal** – Allow constituents to participate in key processes while affording self-service capability to manage data.
- **Forms Builder** – Develop dynamic forms with embedded business logic to create your own extended user interfaces to CampusNexus data and expand self-service capabilities. Deploy forms as standalone applications or embed as part of portals. Forms Builder is integrated with Workflow to provide capabilities for monitoring and tracking form usage.
- **Service Catalog** – Leverage a broad set of APIs, Web Services, and Data Services to facilitate integration with external systems.
- **Business Intelligence & Analytics** – Gain greater insight through a data warehouse with analytic views across a range of operational metrics and powerful interactive visualization tools from Microsoft Power BI.

Easy to Use

CampusNexus incorporates Microsoft's best practices for modern design, and therefore presents a user-friendly experience. It provides a simple user interface with a similar user experience across devices, and leverages many of the concepts with which you're already familiar – namely tiles, semantic zoom, gesture-based touch functionality, and responsive design. CampusNexus is a platform designed for maximum productivity and efficiency.

The solution offers clean, uncluttered, and fast screens, minimizes typing, and can automatically notify the user of new and updated information. As a result, users interact with the content, rather than with controls that represent that content. CampusNexus ships with a number of process-oriented user-interface configurations, such as Recruiting and Admissions, but through the use of Forms Builder, Workflow, and the EDA, these can be tailored to support your unique needs. Using these and other CampusNexus tools, additional business processes can be created to suit your needs as well.

Open Architecture

CampusNexus includes an expansive Service Catalog of APIs, Web Services, and Data Services that, when coupled with the EDA and Workflow, enable extension of the system and integration with your preferred third-party applications.

Web Services expose the business logic and provide for use and adaptability into organizations with diverse infrastructure and control requirements. Data Services using the OData protocol allow for the query and consumption of data while at the same time maximizing performance, efficiency, and supporting the integration with multiple data providers.

In sum, these CampusNexus architectural components help ensure data can move between systems as needed, eliminating separate data silos, and supporting data stewardship goals.

Flexible Deployment Options

Whether you choose to deploy CampusNexus in the CampusNet® Cloud or as part of your own managed infrastructure, CampusNexus is the solution that helps you provide the best experience to students of today and tomorrow.

Adaptable to Your Environment

CampusNexus is an evolutionary platform providing a broad set of functionality to higher education institutions. CampusNexus Student, CampusNexus CRM, and CampusNexus Finance, HR & Payroll are the foundational elements needed to navigate the complex and dynamic environment in which institutions are operating.

Built on a foundation of Microsoft technologies, CampusNexus is preconfigured to support many key operational processes based upon Campus Management's vast experience in higher education. The powerful Event Driven Architecture and the expansive Application Components provide capabilities that allow schools to modify and extend these processes, as well as create new ones as their needs evolve.

In essence, CampusNexus has removed the barriers of custom programming in favor of a malleable, adaptable toolkit. The openness of CampusNexus supports the needs of colleges and universities to be transformative in order to thrive in this new era.

Your Transformation Partner

Campus Management develops strong relationships with client institutions and provides exceptional services in support of its solutions, including:

- CampusNet® Cloud options for cost-effective hosted solutions
- Managed Services programs to augment your staff's skill-sets, provide technical assistance and disaster recovery, and protect your investment
- Implementation packages designed to meet your institution's goals, timelines, and budgets
- Project management services to facilitate communications across the organization and oversee the progress of your implementation
- Training and consulting to enhance your use of the products and extend your ROI
- Customer support with expanded hours to cover multiple time zones
- Self-paced, asynchronous classes on products and industry topics through the Campus Management Learning Center
- Networking & training at CampusInsight Annual Users Conference

About Campus Management Corp.

Campus Management is a leading provider of technology solutions and services that transform higher education institutions. Its next generation suite, CampusNexus®, includes enterprise-wide Student, CRM, and Finance, HR & Payroll solutions. Today, more than 2,000 campuses in 19 countries partner with Campus Management to transform academic delivery, student success and operational efficiency.



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