

WEB ARCHITECT

DEFINITION

Designs, develops, and maintains the technical architecture of Web-based applications.

TYPICAL DUTIES

- Defines system application architecture and articulates the architecture and technical vision to Web authors to determine requirements for Web pages and related applications.
- Compiles client specifications and devises the technical infrastructure to support Web-based applications.
- Consults with administrators, department heads, and web design staff to determine feasibility of applying Web technology to user departmental procedures and identifies problems and establishes system requirements, parameters, and objectives.
- Serves as a technical resource to administrators and department heads in the development of a Web presence strategy in keeping with institutional priorities, objectives and plans.
- Defines the architecture and develops the detailed technical design for incorporating legacy and other applications into the web portal.
- Designs and performs the application programming in the development of server pages for database and business process applications.
- Optimizes established Web architecture for navigability.
- Maintain awareness of District and college policies and management initiatives and identifies opportunities to use Web architecture technologies to further those initiatives.
- Consults with systems engineers to design and implement hardware and software upgrades for Web-based applications on multiple Web server platforms.
- Analyses and troubleshoots complex hardware and software operations problems related to Web operations.
- Oversees the testing and maintenance of Web links.
- Coordinates systems implementation activities for user departments, other units, and computer operations personnel.
- Reviews existing systems and programs, analyzes them to determine the source of any difficulties, and modifies procedures and systems as necessary.
- Working with operations staff, tests backup and restoration processes for Web servers.
- Develops Web architecture standards and procedures.
- Develops and conducts training classes on the use of Web applications for employees and user departments.
- Prepares reports detailing technical feasibility and cost of implementing Web applications or alternatives.
- Evaluates hardware and software technologies related to Web applications and makes recommendations concerning the selection of appropriate tools and products that will facilitate the implementation of the architecture.
- May provide guidance to and review the work of assigned technical staff.
- Provides leadership on IT projects impacting a location's Web architecture.
- Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

A **Web Architect** designs, develops, and maintains the technical architecture of Web-based applications.

A **Web Designer** designs, develops, maintains, and modifies a college's or the District Office's Web site and portal and supporting Web pages. The use of creativity and demonstrated graphic design skills are critical elements of this classification.

SUPERVISION

General direction is received from an academic or classified administrator or supervisor. Work direction may be exercised over assigned technical personnel.

CLASS QUALIFICATIONS

Knowledge of:

Web-based computer systems analysis, design and programming
Internet-enabled and client/server technology, including development tools
Architecture and infrastructure requirements needed to support Web-based applications
Web publishing and Web presentation programs
Design and programming of server pages
Database development techniques with respect to database-driven Web sites, particularly using ASP/ADO, JSP, VBScript, and Jscript
Script languages such as Vbscript, Javascript, Jscript, and PERL
Application of a wide variety of Web development tools such as Dreamweaver, Fireworks, FrontPage and FLASH
Enterprise Resource Planning systems Enterprise Portal capabilities, including Knowledge Management, iViews, Pages and Roles
Network design concepts
Principles of computer network operations in a multi-server environment
Web site administration
Server administration
Project management principles and tools such as Microsoft Project
New trends and developments in the area of Web architecture
Principles of training

Ability to:

Design, develop, and maintain the technical architecture of Web-based applications
Coordinate system design with user needs, data, regulations and related factors
Consult with administrators and staff to define, design, and implement an effective Web architecture
Synthesize facts and concepts which affect systems and procedures
Identify current and impending technical Internet problems
Diagnose complex Web site linkage, access and related operational problems and takes corrective action
Develop and conduct training classes on the use of Web applications
Work closely with users to develop the functional requirements for dynamic, database-driven Web applications and collaborate with developers to build them

Ability to: (Cont.)

Provide leadership and technical assistance to others
Acquire and apply knowledge of new Web technologies and methods to solving operational problems
Work under the pressure of deadlines in a fast-paced environment
Independently plan and organize work projects
Establish and maintain effective working relationships with administrators, faculty, and students
Communicate difficult technical concepts in clear and understandable terms
Write comprehensive and clear technical procedures, documentation, reports and communications related to systems operation and configuration.

ENTRANCE QUALIFICATIONS

Education and Experience:

A. Graduation from a recognized four-year college or university with a major in computer science, information technology, or a related field **AND** two years of recent, paid, full-time experience in Web systems design and development.

OR

B. Twenty-four semester units from a recognized college or university in computer science, information technology, or a related field **AND** four years of recent, paid, full-time experience in Web systems design and development.

Special:

A valid Class "C" California driver's license
Access to an automobile