CLASS TITLE:    Web Application Developer I          CLASS CODE: 840
                Web Application Developer II         CLASS CODE: 796

CHARACTERISTICS OF THE CLASS:

Under general direction, analyzes web related business needs, recommends solutions and provides web design, development and maintenance in support of the district's strategic communications and technology goals.

Web Application Developer I:          Under general supervision, designs, develops, documents and supports Internet technology applications and database-driven web applications; assists users in the configuration and troubleshooting of web-based applications.

Web Application Developer II:         Under general supervision, assists users in the configuration and troubleshooting of more complex web-based applications; analyzes business needs and develops solutions; implements standards for application development and deployment.

EXAMPLES OF DUTIES: (Any one position may not include all of the duties listed nor do all of the listed examples include all tasks which may be found in positions of this class.)

Implements and incorporates new features and updates on the existing Internet, intranet and related sites; creates, edits and publishes district web pages and sites and monitors the day-to-day operation of the websites, including web analytics as well as the transfer, testing and updating of web materials; designs, develops, deploys and supports database driven web solutions from the database to the User Interface (UI) to meet district business needs; works with stakeholders to define scope, requirements and deliver custom web solutions to enhance business processes; ensures accessibility and compliance with district and industry standards and practices; administers web applications, including the web content management system (CMS); converts submitted material to web documents; expands on-line offerings; creates and modifies websites and posts them appropriately; designs, creates and implements graphics, animation, audio or video files for web pages; validates and updates links; converts files between various formats; assesses, understands and implements emerging Internet technologies; identifies and evaluates commercial off-the-shelf (COTS) solutions for web based applications; locates and identifies Internet resources for the educational community and makes them available as appropriate; communicates with a variety of users to publish requested content to the Web; provides training, documentation and technical support to staff on deployed web solutions; collects, evaluates and provides web analytics reports to key stakeholders; provides project and release management for newly developed or procured solutions; recommends and develops standards, policies and procedures for the purpose of implementing high quality web based solutions; configures and maintains search components and recommends search engine optimization techniques; assists with performance of critical system work relating to configuring and maintaining the district's web server and related software; assists with the development, dissemination and observance or adherence to standards for publishing on San Juan Unified School District web pages; performs other duties as assigned.

QUALIFICATIONS:

Education and Experience:

Application Developer I:                Associate's degree or equivalent in computer science, engineering, or related field, and one to three years of experience in the development and maintenance of dynamic, standards-compliant web applications and content.

Web Application Developer II:      Bachelor's degree or equivalent in computer science, computer engineering or related field, and five years of increasingly responsible experience in the development and maintenance of dynamic, standards-compliant web applications and content.

Desired skills include experience in an education setting with K-12 Web CMS solutions; experience in a variety of technology stacks including Java, Ruby on Rails, and Python; familiarity with Google APIs (such as Analytics, AdWords and Maps); experience in desktop development (C++, C#), and integration with Open Source platforms (Wordpress, Drupal, Joomla, BrowserCMS).

Knowledge and Abilities:

Knowledge of:
Best practices, procedures, resources and applications for web-based development;
Macintosh, Windows and Unix operating environments;
Word processing software, web development software and Internet browsers;
On-line text-based and graphical interfaces and Internet protocol;
Current and emerging web technologies and standards including XHTML, HTML 5.0, CSS, XML, JavaScript, AJAX, Flash, ActionScript, .NET, PHP, Cold Fusion, Web 2.0 tools, electronic newsletters, web accessibility, web analytics, web security and database driven web application development;
Database environments such as Microsoft SQL Server, and MySQL;
Web server environments such as Microsoft IIS, Apache, and Tomcat;
User Interface (UI) design principles and tools, including the Adobe suite (Photoshop, Illustrator);
Software Development Lifecycles (SDLCs) methodologies, including Waterfall, Iterative, and Agile models.

Ability to:
Work cooperatively with others and interact in a professional and effective manner;
Create and modify web applications, HTML, CFM, ASP and other web-format documents and to convert documents into various formats such as HTML or PDF;
Create, refine and adhere to development standards;
Troubleshoot, analyze and solve problems with web content and applications;
Independently identify problems and create innovative solutions to improve processes;
Explain complex concepts clearly and simply to a wide variety of users, including non-technical personnel;
Establish and maintain effective working relationships;
Plan, organize and manage a variety of tasks;

Meet schedules and time lines by balancing multiple project priorities and customer expectations;

Communicate effectively both orally and in writing;

Use desktop web/graphics applications such as Dreamweaver, Photoshop, Flash and Illustrator;

Configure and maintain web resources and tools, including server applications (Microsoft IIS, Apache), databases (MS SQL, MySQL) and platforms (ASP/.NET, Cold Fusion, PHP);

Adapt electronic technologies for marketing initiatives, including e-newsletters, online advertising and other e-marketing campaigns;

Maintain consistent, punctual and regular attendance;

Keep professional skills current and consistent with technological advances.

WORKING CONDITIONS:

<u>Work Environment:</u>
Indoor office environment; may drive a vehicle to conduct work; continuous contact with staff.

<u>Physical Characteristics</u>:
With or without the use of aids: communicate to exchange information in person and on the telephone; inspect written materials with fine print; recognize documents and people; remain in a stationary position for extended periods of time; operate office equipment requiring repetitive hand movement and fine coordination including the use of a computer keyboard, fax machine, copy machine and scanner; move about the facilities to conduct work.

<u>Other Characteristics:</u>
Possession of, or willingness and ability to obtain, a valid California Driver's License issued by the California Department of Motor Vehicles within 30 days of hire or before driving equipment/vehicles requiring this license. The use of personal automobile may be required.

Board Approved:      10/9/01
Revised/Updated:     8/11/09
Revised/Updated:     3/27/13