

Web Engineering

Web engineering

development. Web engineering is multidisciplinary and encompasses contributions from diverse areas: systems analysis and design, software engineering, hypermedia/hypertext

The World Wide Web has become a major delivery platform for a variety of complex and sophisticated enterprise applications in several domains. In addition to their inherent multifaceted functionality, these Web applications exhibit complex behaviour and place some unique demands on their usability, performance, security, and ability to grow and evolve. However, a vast majority of these applications continue to be developed in an ad hoc way, contributing to problems of usability, maintainability, quality and reliability. While Web development can benefit from established practices from other related disciplines, it has certain distinguishing characteristics that demand special considerations. In recent years, there have been developments towards addressing these considerations.

Web engineering...

Web design

overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and be up to date with web accessibility

Web design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; user interface design (UI design); authoring, including standardised code and proprietary software; user experience design (UX design); and search engine optimization. Often many individuals will work in teams covering different aspects of the design process, although some designers will cover them all. The term "web design" is normally used to describe the design process relating to the front-end (client side) design of a website including writing markup. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and be up to date with...

Web development

refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security

Web development is the work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services. A more comprehensive list of tasks to which Web development commonly refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development.

Among Web professionals, "Web development" usually refers to the main non-design aspects of building Web sites: writing markup and coding. Web development may use content management systems (CMS) to make content changes easier and available...

Outline of web design and web development

writing markup. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of

The following outline is provided as an overview of and topical guide to web design and web development, two very related fields:

Web design – field that encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and search engine optimization. Often many individuals will work in teams covering different aspects of the design process, although some designers will cover them all. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing markup. Web design partially overlaps web engineering in the broader...

Web testing

Testing Web Applications Across Diverse Client Platform Configurations by Cyntica Eaton and Atif M. Memon. *International Journal on Web Engineering and*

Web testing is software testing that focuses on web applications. Complete testing of a web-based system before going live can help address issues before the system is revealed to the public. Issues may include the security of the web application, the basic functionality of the site, its accessibility to disabled and fully able users, its ability to adapt to the multitude of desktops, devices, and operating systems, as well as readiness for expected traffic and number of users and the ability to survive a massive spike in user traffic, both of which are related to load testing.

UML-based Web Engineering

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UWE (UML-based Web Engineering) is a software engineering approach for the development of Web applications. UWE provides a UML profile (UML extension), a metamodel, model-driven development process and tool support for the systematic design of Web applications (MagicUWE). UWE follows the separation of concerns building separate models for requirements, content, navigation, presentation, process, adaptation and architecture.

The key aspects that distinguish UWE are reliance on OMG standards.

Outline of software engineering

in semantic web applications and as a de facto standard classification system for the field. The major section "Software and its Engineering" provides an

The following outline is provided as an overview of and topical guide to software engineering:

Software engineering – application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is the application of engineering to software.

The ACM Computing Classification system is a poly-hierarchical ontology that organizes the topics of the field and can be used in semantic web applications and as a de facto standard classification system for the field. The major section "Software and its Engineering" provides an outline and ontology for software engineering.

Semantic Web

*Semantic Web Semantically-Interlinked Online Communities Smart-M3 Social Semantic Web Web engineering
Web resource Web science Semantic Web at W3C: <https://www>*

The Semantic Web, sometimes known as Web 3.0, is an extension of the World Wide Web through standards set by the World Wide Web Consortium (W3C). The goal of the Semantic Web is to make Internet data machine-readable.

To enable the encoding of semantics with the data, technologies such as Resource Description Framework (RDF) and Web Ontology Language (OWL) are used. These technologies are used to formally represent metadata. For example, ontology can describe concepts, relationships between entities, and categories of things. These embedded semantics offer significant advantages such as reasoning over data and operating with heterogeneous data sources.

These standards promote common data formats and exchange protocols on the Web, fundamentally the RDF. According to the W3C, "The Semantic Web...

List of engineering branches

*Computer-aided engineering Model-driven engineering Concurrent engineering Engineering analysis
Engineering design process (engineering method) Engineering mathematics*

Engineering is the discipline and profession that applies scientific theories, mathematical methods, and empirical evidence to design, create, and analyze technological solutions, balancing technical requirements with concerns or constraints on safety, human factors, physical limits, regulations, practicality, and cost, and

often at an industrial scale. In the contemporary era, engineering is generally considered to consist of the major primary branches of biomedical engineering, chemical engineering, civil engineering, electrical engineering, materials engineering and mechanical engineering. There are numerous other engineering sub-disciplines and interdisciplinary subjects that may or may not be grouped with these major engineering branches.

Web application

needed] Internet portal Web API Software as a service (SaaS) Web 2.0 Web engineering Web GIS Web services Web sciences Web widget "Web app | Definition, History

A web application (or web app) is application software that is created with web technologies and runs via a web browser. Web applications emerged during the late 1990s and allowed for the server to dynamically build a response to the request, in contrast to static web pages.

Web applications are commonly distributed via a web server. There are several different tier systems that web applications use to communicate between the web browsers, the client interface, and server data. Each system has its own uses as they function in different ways. However, there are many security risks that developers must be aware of during development; proper measures to protect user data are vital.

Web applications are often constructed with the use of a web application framework. Single-page applications (SPAs...

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