

## A Brief Note on Software Development

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### Perspective

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### ABOUT THE STUDY

Software development is the process of conceiving, specifying, designing, programming, documenting, testing, and bug resolution in order to create and maintain applications, frameworks, and other software components. Software development includes not only developing and maintaining source code, but also all operations that take a desired piece of software from idea to final manifestation, usually in a planned and structured manner.

Software development encompasses all actions that result in software products, including research, new development, prototyping, modification, reuse, re-engineering, and maintenance. For some projects, a single system development process may not be appropriate. Each of the current methodologies is best suited to various sorts of projects based on different technical, organisational, project, and team considerations.

Software product ideas might come from a variety of places. Market research, such as demographics of possible new clients, existing consumers, sales prospects who rejected the product, internal software development professionals, or a creative third party, can all affect these ideas. Economic feasibility, compatibility with existing distribution channels, potential consequences on existing product lines, required functionality, and conformity with the company's marketing goals are all factors considered by marketing personnel when evaluating software product ideas.

The cost and time assumptions are assessed during the marketing review process. Early in the first phase, a judgement is made about whether the project should be pursued further based on the more accurate information provided by the marketing and development employees.

Planning is one of the actions that have the purpose of identifying things that are relevant to the project. Requirements extraction, also known as requirements analysis, is a crucial step in the software development process. Customers usually have a general notion of what they want as a finished product, but they have no idea what software should do. Skilled and experienced software engineers can notice incomplete, ambiguous, or even contradictory requirements at this phase. Demonstrating real code on a frequent basis can help to reduce the likelihood of incorrect requirements.

After the requirements have been identified, the software design can be documented in a software design document. This entails a high-level or preliminary design of the core modules, as well as an overall image of how the elements interact. At this point, you should have a good understanding of the language, operating system, and hardware components. Then, potentially with prototyping as a proof-of-concept or to tighten up requirements, a comprehensive or low-level design is generated.

Both software development and web development in computer programming refer to the same engineer or programmer and the coding process. The field of software development is concerned with the creation of computer programmes (or software). Software developers are in charge of the concept, creation, programming, documentation, testing, improvement, and maintenance of software and its components. Software developers build programmes and mobile applications for desktop computers and mobile devices, as well as the platforms on which they run. Not only do software engineers need to grasp development best practises, but they also need to comprehend the theory behind programming. To construct interactive webpages, web developers use coding and mark-up. The client side and the server side of web development can be separated.

In the software development process, a view model is a framework that gives viewpoints on the system and its environment. It's a visual representation of a view's underlying semantics. The goal of viewpoints and views is to help human engineers understand extremely complicated systems and organise issue parts around domains of expertise. In the engineering of physically demanding systems, viewpoints frequently match to the engineering organization's skills and responsibilities.

The use of graphical representations of the current state of information to deliver information to users and system developers is particularly successful. A business model depicts the functions and organisations involved in the modelled business process. The nature of a process is visualised, defined, understood, and validated by displaying activities and information flows. When the final outcome is the development of computer software code for an application or the preparation of a functional specification to aid in a computer software make-or-buy choice, a data model is of major use.