**Project**

A project is well-defined task, which is a collection of several operations done in order to achieve a goal (for example, software development and delivery). A Project can be characterized as:

* Every project may has a unique and distinct goal.
* Project is not routine activity or day-to-day operations.
* Project comes with a start time and end time.
* Project ends when its goal is achieved hence it is a temporary phase in the lifetime of an organization.
* Project needs adequate resources in terms of time, manpower, finance, material and knowledge-bank.

A [project](https://en.wikipedia.org/wiki/Project) is a temporary endeavor(try, work, effort, venture etc.) designed to produce a unique product, service, or result with a defined beginning and end (usually time-constrained, and often constrained by funding or staffing) undertaken to meet unique goals and objectives, typically to bring about beneficial change or added value

**Project management processes fall into five groups:**

1. Initiating
2. Planning
3. Executing
4. Monitoring and Controlling
5. Closing

**Project management knowledge draws on ten areas:**

1. Integration
2. Scope
3. Time
4. Cost
5. Quality
6. Procurement
7. Human resources
8. Communications
9. Risk management
10. Stakeholder management

**Software Project**

A Software Project is the complete procedure of software development from requirement gathering to testing and maintenance, carried out according to the execution methodologies, in a specified period of time to achieve intended software product.

**Management**

The best definition of **Management** refers to the optimal way to accomplish tasks and achieve goals, using Planning, Organizing, Staffing, Directing, and Controlling functions or processes

**Management** (or **managing**) is the administration of an [organization](https://en.wikipedia.org/wiki/Organization), whether it is a [business](https://en.wikipedia.org/wiki/Business), a [not-for-profit](https://en.wikipedia.org/wiki/Not-for-profit) organization, or government body.

Management includes the activities of setting the [strategy](https://en.wikipedia.org/wiki/Strategic_management) of an [organization](https://en.wikipedia.org/wiki/Organization) and coordinating the efforts of its [employees](https://en.wikipedia.org/wiki/Employee) (or of volunteers) to accomplish its [objectives](https://en.wikipedia.org/wiki/Goal) through the application of available [resources](https://en.wikipedia.org/wiki/Resource_(economics)), such as [financial](https://en.wikipedia.org/wiki/Financial), [natural](https://en.wikipedia.org/wiki/Natural_resources), [technological](https://en.wikipedia.org/wiki/Technological), and [human resources](https://en.wikipedia.org/wiki/Human_resources)

**Project Management**

**Project management** is the process of leading the work of a [team](https://en.wikipedia.org/wiki/Project_team) to achieve goals and meet success criteria at a specified time. The primary challenge of project management is to achieve all of the project goals within the given constraints.[[1]](https://en.wikipedia.org/wiki/Project_management#cite_note-1) This information is usually described in project documentation, created at the beginning of the development process. The primary constraints are [scope](https://en.wikipedia.org/wiki/Scope_(project_management)), time, [budget](https://en.wikipedia.org/wiki/Budget).[[2]](https://en.wikipedia.org/wiki/Project_management#cite_note-2) The secondary challenge is to [optimize](https://en.wikipedia.org/wiki/Operations_research) the [allocation](https://en.wikipedia.org/wiki/Resource_allocation) of necessary inputs and apply them to meet pre-defined objectives.

**Project management**, then, is the application of knowledge, skills, tools, and techniques to project activities to meet the project requirements.

**Software project management**

Is an art and science of planning and leading software projects. It is a sub-discipline of [project management](https://en.wikipedia.org/wiki/Project_management) in which [software](https://en.wikipedia.org/wiki/Software) projects are planned, implemented, monitored and controlled.

Project planning, execution, monitoring and control

Project Management --- Software Projects – Planned, Implemented, Monitored, Controlled

Four Ps- People, Project, Process, Product

**Software project management** refers to the branch of project management dedicated to the planning, scheduling, resource allocation, execution, tracking and delivery of software and web projects.

Project management in software engineering is distinct from traditional project management in that software projects have a unique lifecycle process that requires multiple rounds of testing, updating, and customer feedback. Most IT-related projects are managed in the agile style, in order to keep up with the increasing pace of business, and iterate based on customer and stakeholder feedback.

**Need for SPM**

