

# Project Management

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## What is Project Management?

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Project Management is to manage time, resource and scope to meet a goal.

The Project Manager(PM) is in charge of a project.

He prepares a schedule and a budget and assigns resources to work on the project. The project manager may also outsource the work as needed. He has to make the project a success.

### Scope

They have to understand accurately what is the goal and what is the product that their team will make.

And they have to consider what kind of member do they need, what kind of skills are demanded.

### Quality

They make technical standards and manage quality. Sometimes, quality of products differ depends on a member.

They have to define a guideline for making consistent quality their team's skills.

### Budget

They have to calculate accurately a cost among scope of responsibility.

They need to consider a cost which is a team and work cost, materials in need, development environment.

### Optimize resources & inputs

### Reduce Risk

When we are making a product, It will definitely happen a risk. They PM predict risks to a certain extent and need to take a measure for preventing beforehand. There are below as typical risks.

- As requirement has not been concreted by their clients, a schedule will be delayed.
- A member could be left by disease or accidents.
- Quarrel with members each other.
- As quality of products which outsourcing made is low, we can't accept.
- etc...

## **Problem solving**

It will happen problem that we can't expected. They have to solve kind of problem.

## **Software Project**

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### **How to make software project?**

1. Initiating
2. Planning & Design
3. Execution
4. Monitoring & Controlling(go to 2 again if it needed)
5. Closing (later maintenance)

### **Initiating**

This is a first step to build a project. We should consider below.

- How much?
- How long?
- Can we make/bulid it? impossible?

- Scope
- How much profits will be expected?

## **Planning & Design**

- Making schedule
- Define tasks
- Brainstorming
- How can I make it?

## **Execution**

We execute along a plan. But, we necessarily run into some problems. We need to do “Monitoring & Controlling”.

## **Monitoring & Controlling**

We always monitor state of execution, and revise a plan. Especially, these are needed to remember. Check below anytime.

- Is there any delay of execution?
- Excess over the estimates(budget)?
- Is there still quality is high? no decreasing?

## **Closing (later maintenance)**

When our clients accept, our projects will be finished. And then, we should gather some data. Because, at times, we have to maintenance projects.

## **types**

- **Process-based(CMMI:Capability Maturity Model Integration)**  
Increasing quality, productive, making product term. These are needed for high technology or quality for our product.
- **Lean Pro. Man.(delivering)**  
There is no waste and productive.

- Extreme Pro. Man.

## Software Development

- Waterfall
- Prototyping
- Agile
- XGH(Extreme Go Horse)

## Agile

This oncept is light-weight development that more speedy and appropriately.

- XP
- Scrum

This is to work together a development team for reach the same goal.

- Kanban

This is method for developing software.

We need that process are visible, we team can understand easily.