

# 6 steps to build your own project management software from scratch

In 2019 and 2020, managing projects is an activity aimed at reaching clear business goals with regard to the scope of work, resources, time, quality, and risks. To process and analyze large volumes of project's data managers use specialized software. Usually, this software is designed as a multi-user platform that helps track progress, implementation, and accomplishment of tasks or projects. In this article, we will uncover the aspects to consider when planning to build project management software. Before proceeding to this topic it is desirable to consider how you can benefit from the specialized software.

## What are the benefits of using company task management software?

Whatever your type of organization is, a small, medium, or large enterprise, PM tools address a lot of problems. Here is how you can benefit from using such solutions:

1. **Collaboration in real time.** All team members can focus on their own tasks whereas project managers can keep track of multiple tasks or projects.
2. **Cost control.** One of the major objectives of PMs is to control and mitigate expenses. Specialized software ensures accurate estimations and cost projection.
3. **Documents sharing.** Team members and project managers are able to

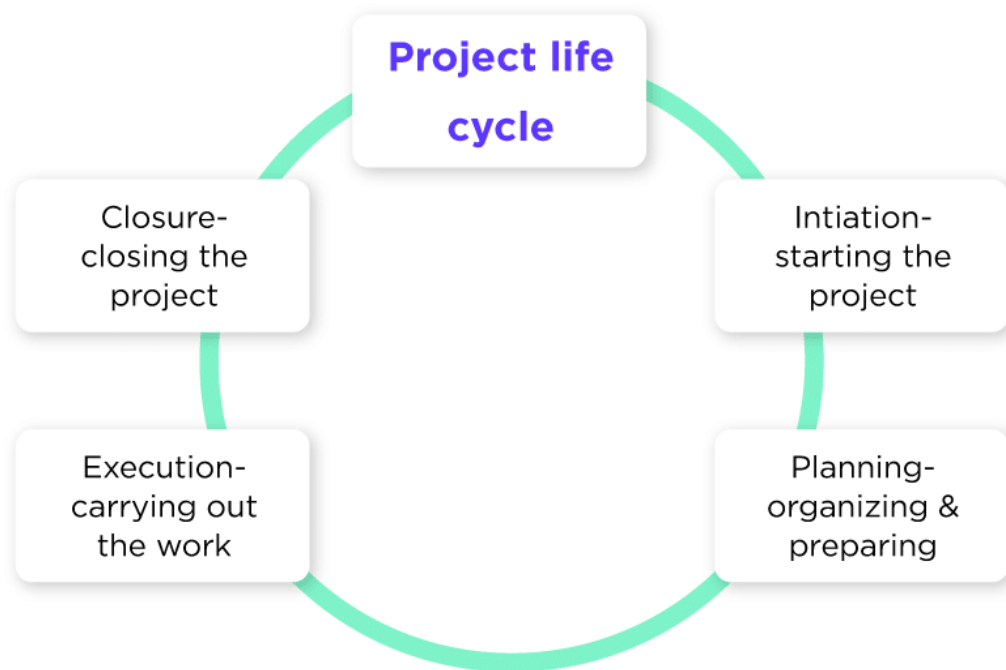
share project papers and work on those simultaneously.

4. **Monitoring.** Obviously, monitoring is one of the prime objectives of PM tools. With the help of the software, you are able to monitor the workflow, progress on all stages of work, and provide forecasts on the time when the project will be accomplished.
5. **Decision making.** Specialized built-in analytics instruments help make data-driven decisions and analyze the results.
6. **Risks identification.** With proper tools, you will be able to identify what projects are in danger or face the risks of failure and pay due attention to those projects on time.
7. **Customer satisfaction.** The implementation of project management software allows building stronger relationships with customers. PM tools help deliver projects on time and under budget.
8. **Prioritizing.** Determining what is important can be a daunting task for any executive. By building project management software, you will be able to determine top priorities for your company or project and pay attention to the things that make a difference.

## What project planning tools to use?

Any project has its life cycle which is typically divided into the following stages:

- **Initiating and starting the project**
- **Organizing and preparing**
- **Carrying out the work**
- **Completing the project**



A four-phase project life cycle helps you focus on what needs to be done at particular points in a project, phase, sub-phase, work package, etc.

At any starting phase, you should define the objectives and what is needed to achieve those objectives. With the help of project management applications, you will be able to answer the following questions:

1. **What are the main objectives of the project?**
2. **What is your business case? What problems will the app address?**
3. **Who is going to manage the work?**
4. **Who is going to do the work?**

You should document the answers to these questions using your software so that they are available to all team members. These answers will serve as a basis for discussion and SRS documentation writing.

Depending on the scope of the work and requirements of the business, all of

those points could be covered in a couple of pages. The important thing is that the task manager lays out an argument that is well-defended and needs no additional input to be convincing.

The toolbox used by PMs to plan their work includes network diagrams, critical path method, program evaluation and review technique, gantt chart, work breakdown structure, project documentation.