

Software Project Management

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1

Managing a software project means planning, organizing, and controlling all activities needed to build software. For example, in a mobile app project, the first step is to understand what the app should do and who will use it. The project manager works with developers, designers, and testers to define goals, tasks, and deadlines.

A project plan is created to divide the work into smaller tasks such as design, coding, testing, and deployment. Resources like time, budget, and tools are also managed carefully. Communication is very important because team members must share progress and problems regularly.

The project manager also monitors risks, solves issues, and ensures the project stays on schedule. Good software project management helps deliver a high-quality app that meets user needs, reduces errors, and ensures the project is completed successfully and efficiently.

2

Agile is a flexible framework used in software development to manage projects effectively. Instead of completing the whole project at once, Agile divides the work into small parts called iterations or sprints. Each sprint focuses on delivering a working part of the software.

Agile encourages teamwork, continuous feedback, and frequent communication with stakeholders. It allows teams to adapt quickly to changes in requirements. The role of Agile

is to improve productivity, reduce risks, and ensure that the final product meets user expectations. Because of its flexibility and focus on collaboration, Agile is widely used in modern software projects, especially in fast-changing environments like mobile app development and web systems.

3

Trello is an online project management tool that helps teams organize tasks visually. I created a project plan for a mobile app by making boards, lists, and cards. The lists included stages such as "To Do," "In Progress," and "Completed." Each card represented a task like designing the interface, coding features, testing the app, and fixing bugs.

Using Trello made it easy to track progress and assign tasks. I could see which tasks were finished and which still needed work. Trello also helped me understand how projects are structured and managed. Overall, the tool made project planning simple, organized, and efficient, which is very useful in software project management.

4

A project management lifecycle diagram shows the main phases of a software project from start to finish. The first phase is initiation, where the project idea is defined and approved. The second phase is planning, where goals, tasks, schedules, and resources are determined.

The third phase is execution, where the team develops the software and performs assigned tasks. The fourth phase is monitoring and controlling, where progress is tracked, problems are solved, and quality is checked. The final phase is closing, where the project is completed, evaluated, and delivered to users.

This diagram is important because it provides a clear structure for managing projects. It helps teams understand their responsibilities and ensures that every stage of the project is completed in an organized and systematic way.

