# Project Management

Project management is important to so that your project is managed well, and its resources and scheduling is balanced so your projects expected outcomes can be finished on time and deliver on your set goals. If a project is not properly managed, it is very easy for it to run over time, waste resources such as time and money, and deliver an unfinished project. There are four project phases, Requirements, Design, Implementation and Testing.

Requirements is everything you will need for your project. It can be broken down into functional and nonfunctional requirements. For example, crud functionality maybe be required for my project, but dark mode may not be required for it to still function.

Design includes wireframes, type scales, colour palettes and other front-end components for my web app. Planning all of these out is essential for the project to be delivered on time.

Project management is very important for the implementation stage. If the implementation stage isn’t managed properly then it is very easy to brake schedule. Having a backflow system and Kanban board is very useful for the implementation stage.

It is important to leave enough time for testing in case some part of the project isn’t functioning properly and must go back to the implementation stage. Testing will be important to make sure your final product is working as expected.

It is important to define the scope of the project and what will be done. This is done by talking to your employer and agreeing on the expected outcomes for the project. Laying out a plan is very important and having a contingency plan if something was to go wrong.

## How it is used

In my project I am using several useful project management tools are used such as, GitHub Project, Kanban boards and Gantt Charts. In GitHub project I have my project repo where I backup my code to. I also use the GitHub Kanban board. I use this to have a To do, In progress and Done list.

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Description automatically generatedThis is useful to have a backflow of work that can be done when some part of your project is finished or ready to move on. I also have setup a Gantt Chart to schedule tasks and estimate the time taken to complete those tasks. This is better for time management and budgeting as you your schedule is well documented. The Gannt chart is useful as you can be working on several tasks at once.

Scrum is often used in project management. It is a framework for developing a project. Scrum has three roles, the product owner, scrum master and the development team. Scrum is quite effective for group projects but not necessarily the best method to product development for a solo project. Scrum projects will have a daily scrum to communicate with each other quickly and keep up to date. It is not meant for detailed discussions.