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The SDLC (software development lifecycle) is made up of different steps needed to identify a need, plan out the work, complete the work, and test the work to ensure it it correct. All of these steps are different and separate from one another in a single project. The cumination of all of those steps, create a single project.

During the testing stage, the software is assesed, and any bugs, or fixes that are needed are given to the engineers to fix. This continues until all fixes are made and customer requirements are met. The testing stage consists of test palnning, test execution, defect tracking, test reporting, and test completeion. In the SDLC the testing stage is vital for many reasons. These reasdons include quality assurance, bug detection, compliance, risk midigation, and user satisfation. This stage ensure that the software meets standards for quality, functionality, as well as provides a positive user experience.

In the traditional waterfall method of SDLC, the testimng phase usually occurs after development. There are however exceptions where the testing can occur earlier orr later. The testing approaches are agile and iterative, continious intergration, test driven development, maintenance, and updates. The testing stage can vary depending on many variables such as, development methodology, orginizational practices, and the project itself.