

## Software Development

In section 2.16 we learned what the waterfall method is and how it works. The basics of the waterfall method is that it is a software development process that consists of eight stages: requirements specification, system analysis, system design, implementation, testing, deployment, and maintenance. These eight stages are rigorous and are completed in order. A developer may go back to a previous stage but it must be in order, you cannot skip stages. With the detailed stages there are clear deadlines in which a program must be completed. Now, the Agile Development process is different when it comes to rigorous stages and timelines. There is less planning when using the Agile Development process. The process is very adaptable to changes in requirements and bases developers' programs on test-driven development. This means that developers are able to break their projects into chunks and test for bugs or errors to fix their programs. Along with test-drive development, the Agile Development requires a lot of teamwork to help with its rapid completion time. One of the main disadvantages of the Agile Development is the customer involvement. The Agile Development is a very open process when developing programs thus, the entire team of developers must be dedicated and in tune with the project to achieve the end goal. Overall, we see that the main different between the waterfall method and the Agile Development process is that the waterfall method is completed in a straight process and the Agile Development process is a little more lenient.