**SDLC’s Waterfall model vs. Incremental model**

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Date: 1/28/16

SDLC(Software Development Life Cycle) is a term used to describe the process for planning, creating, testing, and deploying an information system. This concept applies to a range of hardware and software configurations, as a system can be composed of hardware only, software only, or a combination of the two. There are two different models that I will discuss in this paper one being the Waterfall model and the other being the Incremental model. The waterfall model shows progress flowing steadily downwards like a waterfall that goes through different phases. The incremental model shows progress through a series of incremented tests.

The waterfall model has phases that it is taken through as mentioned before, these stages include conception, initiation, analysis, design, construction, testing, production/implementation, and maintenance. This model is the first known software development methodologies. Since no formal software development methodologies existed at that time, this model was simply adapted for software development. The waterfall model originated in the manufacturing and construction industries, which were highly structured physical environments in which after-the-fact changes are prohibitively costly, if not completely impossible.

The incremental model revolves around the process of incrementally testing the product until its finished. This product is defined as finished when it satisfies all of its requirements. The product is decomposed into a number of different components that are each designed and built separately. Each completed component is delivered to the client upon completion. An advantage of this model would be how easy it is to test and debug compared to other methods but one of the many great disadvantages of this model is how costly it can be to replicate the same product over and over.