

SDLC MODEL	DESCRIPTION	USE	ADVANTAGE	DISADVANTAGE
1) Waterfall model	<p>Waterfall is based on linear and sequential design.</p> <p>Waterfall model divides the life cycle into set of phases.</p> <p>This model considers that one phase can be started after the completion of the previous phase.</p> <p>Thus, the development process can be considered as a sequential flow in the waterfall.</p> <p>Here the phases do not overlap with each other.</p>	<ol style="list-style-type: none"> 1. It is use in small project. 2. Requirements are clear and fixed that may not change. 	<p>It is simple and easy to understand and use.</p> <p>Its work well for smaller and low budget project where requirement is very well understood.</p> <p>It is best suited when developer have already designed and developed similar software in the past.</p>	<p>The sequential nature of model does not allow to go back and undo or redo the action.</p> <p>It is not good model for long and object-oriented project.</p>
2) Iterative model	<p>Iterative process starts with a simple implementation of a small set of software requirement & iteratively enhances the evolving version until system is ready to be deployed.</p> <p>It does not attempt to start with full specification of requirements.</p>	It is use in big project.	<p>Parallel development can be planned.</p> <p>It includes in small portion of whole software process it is easier to manage the development process.</p> <p>Testing and Debugging during smaller iteration is easy.</p>	<p>More resources may be required.</p> <p>Not suitable for smaller project.</p>

3) Spiral Model	<p>Spiral model which supports for risk handling.</p> <p>The exact number of loops of spiral is unknow and can vary from project to project. Each loops in spiral is called phase of the software development process.</p> <p>Spiral model divided into four quadrants. 1.objective determination and identify alternative solution. 2.identify and resolve risk 3.develop next version of the product. 4.review and plan for the next phase.</p>	<p>Spiral model is used in larger project.</p> <p>Spiral model is useful for medium to high-risk project.</p>	<p>Additional functionality or changes can be done at a later stage</p> <p>Cost estimation become easy</p>	<p>Not advisable for smaller project, as it might cost more.</p> <p>For its smooth operation spiral model protocol needs to be followed strictly</p>
4) V model	<p>V model which has a testing phase parallel to each development phase.</p> <p>The V model is an extension of the waterfall model wherein software development and testing is executed in a sequential way. It is known as</p>	<p>V model used for small to medium sized project.</p>	<p>Simple and easy to used and understand</p> <p>V model is used for small project where project requirements are clear</p> <p>This model focuses on verification and validation activities early</p>	<p>High risk and uncertainty.</p> <p>It is not good for complex and object oriented project</p> <p>This model does not support iteration of phases.</p>

	the Validation or Verification Model.		in life cycle thereby enhancing the probability of building an error free and good quality product.	
5) Big Bang model	<p>Big bang model it is simplest model as it requires almost no planning.</p> <p>It required lots of funds and coding and takes more time, effort and resources to build a product.</p> <p>The product is gradually built as the requirements from the customer come, however the end product might not meet the actual requirement</p>	<p>Developing a project for learning purposes or experiment purposes.</p> <p>When newer requirements form the user side.</p> <p>Its suitable for small project.</p>	<p>There is no planning required for this.</p> <p>As there is no proper planning hence it does not require managerial staffs</p> <p>It is a good learning for new comers or students.</p>	<p>It is not good model for complex and object oriented projects.</p> <p>Can turn out to be very expensive if requirements are misunderstood.</p>
6) RAD model	<p>RAD is a software development methodology that focused on building application in a very short amount of time.</p> <p>It is a high speed adaption of the linear sequential model in which rapid development is achieved by using</p>	<p>When the system should need to create the project that modularizes in short span time (2-3 months).</p>	<p>This model is flexible for change.</p> <p>Each phase in RAD brings highest priority functionality to the customer.</p>	<p>It required highly skilled designers.</p> <p>All application Is not compatible with RAD model.</p> <p>For smaller projects, we cannot use the RAD model.</p>

	component based construction.			
--	-------------------------------------	--	--	--