Software Development Life Cycle



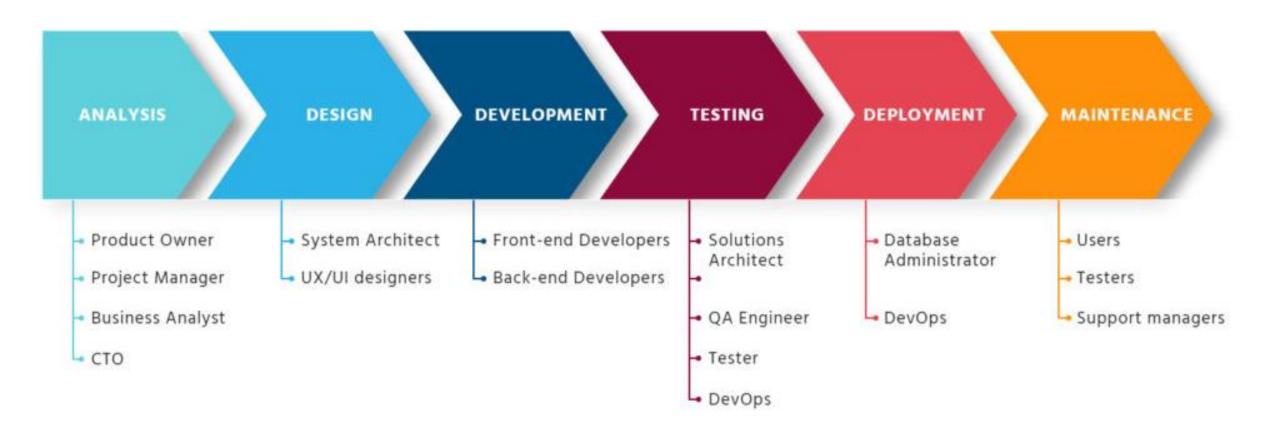
Agenda

- Introduction
- SDLC
- Waterfall
- Iterative
- Agile

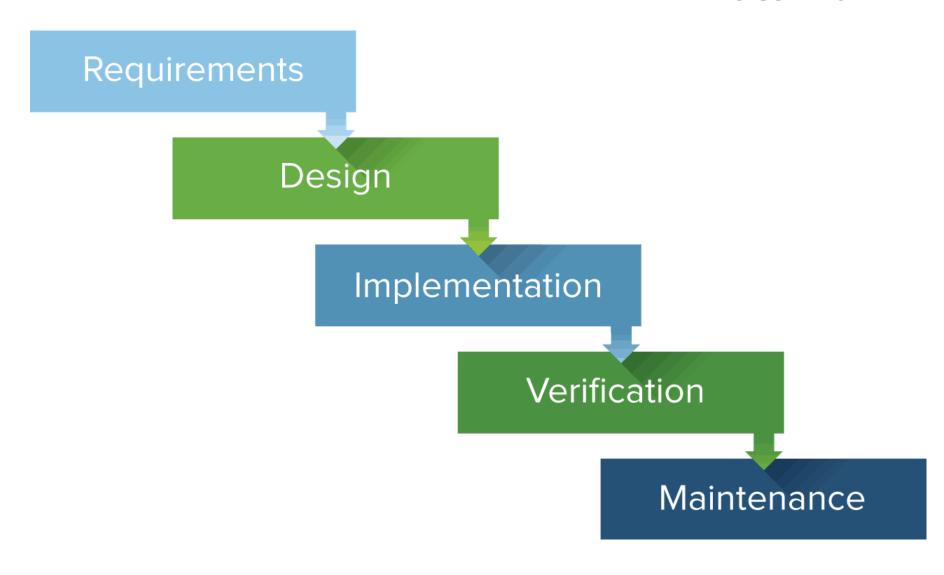
Software Development Life Cycle



6 PHASES OF THE SOFTWARE DEVELOPMENT LIFE CYCLE

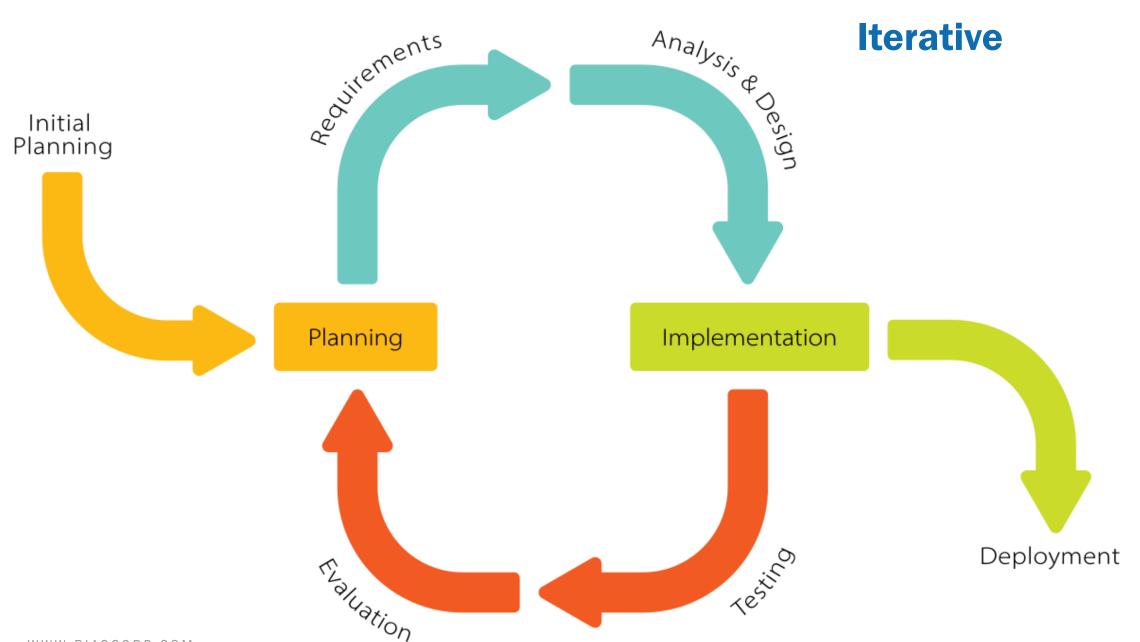


Water Fall



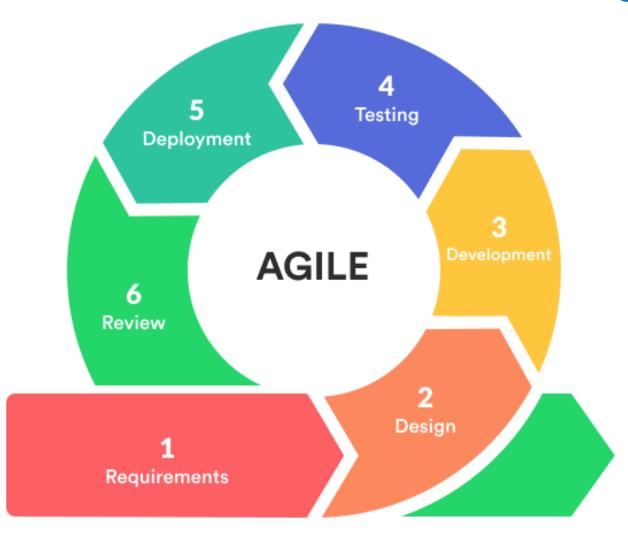
4

Advantages	Dis-Advantages
•Before the next phase of development, each phase must be completed	•Error can be fixed only during the phase
•Suited for smaller projects where requirements are well defined	•It is not desirable for complex project where requirement changes frequently
•They should perform quality assurance test (Verification and Validation) before completing each stage	•Testing period comes quite late in the developmental process
•Elaborate documentation is done at every phase of the software's development cycle	•Documentation occupies a lot of time of developers and testers
•Project is completely dependent on project team with minimum client intervention	•Clients valuable feedback cannot be included with ongoing development phase
•Any changes in software is made during the process of the development	•Small changes or errors that arise in the completed software may cause a lot of problems



ADVANTAGES	DISADVANTAGES
Some functions can be quickly developed at the beginning of the development lifecycle	Iterative model requires more resources than the waterfall model
The paralleled development can be applied	Constant management is required
The progress is easy measurable	Issues with architecture or design may occur because not all the requirements are foreseen during the short planning stage
The shorter iteration is - the easier testing and debugging stages are	Bad choice for the small projects
It is easier to control the risks as high-risk tasks are completed first	The process is difficult to manage
Problems and risks defined within one iteration can be prevented in the next sprints	The risks may not be completely determined even at the final stage of the project
Flexibility and readiness to the changes in the requirements	Risks analysis requires involvement of the highly- qualified specialists

Agile



WWW.BIASCORP.COM

ADVANTAGES	DISADVANTAGES
It is focused client process. So, it makes sure that the client is continuously involved during every stage.	It is not useful method for small development projects.
Agile teams are extremely motivated and self- organized so it likely to provide a better result from the development projects.	It requires an expert to take important decisions in the meeting
Agile software development method assures that quality of the development is maintained	Cost of implementing an agile method is little more compared to other development methodologies
The process is completely based on the incremental progress. Therefore, the client and team know exactly what is complete and what is not. This reduces risk in the development process.	The project can easily go off track if the project manager is not clear what outcome he/she wants