## Difference between: Waterfall Model vs Agile Model

There are many differences between Waterfall and Agile model as show

n below.

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| **Waterfall Model** | **Agile Model** |
| Planning – Waterfall model requires planning for long term which requires complete clarity in requirements | Planning in Agile projects is generally on a short term since the work product is delivered in 2 to 4 weeks |
| Project success is dependent on implementing the requirements closely | Project success is based on delivery of business value to the client |
| Sequential planning with clearly defined milestone details and predictability are characteristics of Waterfall projects | Planning in Agile projects is iterative in nature and adapts to changing requirements |
| There are many roles in a Waterfall project and these projects can also have several levels of hierarchy | Agile projects teams have significantly lesser roles, for example Scrum teams can get by with only three roles |
| There is significant amount of communication with the user during requirements gathering (at the beginning) and testing (at the end) | There is a steady on-going communication with the user during the project |
| There is no much dependency on the end users during the development and other intermediate phases | There is significant dependency on the users, all the way through the lifetime of the project |
| Complete requirements are clearly documented to begin with | Requirements continue to develop over the lifetime of the project and are defined when they are needed, i.e, just in time |
| Team members with different roles have different responsibility levels | Equal responsibility is shared between the roles |
| Change control is strictly enforced and rigorous change control processes are followed. Thus change is discouraged and they do not respond well to change. | Agile projects are open to change, they accept them openly and respond well |
| Quality Control activities like Testing are performed towards the end of the project | Quality Control activities are performed throughout the project |