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| MODEL NAMES | WATERFALL MODEL | ITERATIVE MODEL | SPIRAL MODEL | V MODEL | RAD MODEL | BIG BANK MODEL |
| DEFINITION | Traditional and sequential model, Process of this model as seen as flowing downward like a waterfall through different phases. | Development process in Iterations. ***Cyclic manner*** | This model more emphasis on Risk Analysis. This model Adapts large and complicated projects where risk is very High. | Sequential model like water fall model in v shape in parallel we do a testing. | This model focuses on building applications in a very short amount of time. | This model requires no planning lots of programming lots of fund we are making the project |
| OBJECTIVES | High Assurance | Rapid development | High Assurance | High Assurance | Rapid development | Medium Assurance |
| REQUIREMENT SPECIFICATION | Clearly we need, do not change | It Allows requirement changes in future | Allows requirement changes | Allows requirement changes | Allows requirement changes | No its difficult to do again |
| RISK INVOLVEMENT | USING THIS MODEL WE FACE HIGH RISK | Low Risk | Medium to High Risk | LOW RISK | Low risk | Risky model |
| FEEDBACK FROM THE USER | NO we can’t go back | Yes we can get feedback easily we can develop the small portion of the software and update. | Yes we want to update the software by the customer feed back | We can get the user feed back. | We can get the feedback and update the software which module needs update. | We can get feedback but changeing is very difficult one. |
| SUITABLE FOR | Short term project | Suitable for **large** project | Large and complicated project | Small projects | Medium projects | Short projects |
| Main advantage | Very simple to implement, we can get a **stable product** | Small portion of whole software process, easier to development process. | Allows Better risk analysis & cost effective due to good risk management . | Each phase has specific deliverables | Short duration of time we can build a medium project. Reduced Cycle time and improved productivity | Very simple no planning needed |
| Main disadvantage | Backtracking is not possible | More features added to the software on every iteration, **it consumes more resources**. | Success of a project depends on risk analysis | Very rigid, like waterfall | Well experts for each module, and enough human resources need. | Risky one |
| phases | 1.Requirement  2.system Analysis  3.Design &  Development  (Coding)  4.implementation  5.Testing  6.Deployment & implementation | **1.Requirement**  **Phase**  **2.Analysis**  (3.Design  4.implementation  5.testing  6.Review)  **7.Deployment**  **8. Maintainance** | 1.Planning phase  2.risk analysis phase  3.design & development phase  4.evaluation phase | 1.requirement gathering- acceptance testing  2.system analysis-system testing  3.software design-integration testing  4.module design-Unit testing  5.coding | 1.Business modeling  2.Data modeling  3.Process modeling  4.Application generation  5.Testing and turnover  6.RAD TOOLS(Erwin, CASE Tools, Rational rose,  Visio). | No planning needed |