Nguyen Cong Danh

Why do we need software development process models?

            Development process models help improve efficiency during the process of making a new program, by:

         Preventing waste of time and labor when milestone are set.

         Make the tasks that need to be done clear to the developers

         Splitting software development into smaller stages help improving the planning and managing of the project.

How Spiral model differs from Waterfall model?

            The Spiral model divide the development process into smaller segments, focusing on risk-reduction iteration. Thus the cycle of development from the Spiral model is relatively “smaller” than that of the Waterfall model. And the Spiral model can have several cycle of development.

Unlike the Waterfall model which stop the development after 1 cycle is complete, the Spiral model continue on to another cycle, which has the same phases of development as the first cycle.

            Another different is: when encountering errors, the Waterfall model is more likely to have restart from scratch if the developers wish to fix the error, since it only has 1 big cycle of developement. While the development cycle of the Spiral model is smaller, and is divided into many smaller cycles, and a prototype is made every cycle, it is easier to go back from a previous version, and start again.