

# **IT 314 - Software Engineering**

## **[LAB - 1]**

### **LAB 1 - CHOOSING APPROPRIATE SOFTWARE MODELS FOR DIFFERENT SOFTWARE DEVELOPMENT PROJECTS**

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1) A simple data processing project

Ans - A Simple data processing project will have a certain predefined functions to be performed on the given set of data . So as the requirements are fixed WaterFall Model is best suggested as you get complete control over the process ,which in turn improves the quality.

2) Since we require a data entry system for the novice users(newbie) . We Require a system which is completely user friendly and has good functional user interface. And thus such requirements will best be satisfied by Prototype Model.

3) Since we have certain fixed set of basic features which we require and other features which are also dependent on them . So WaterFall Model is suggested.

4) Since we are developing software for a new business where requirements are changing fast, we would require a comprehensive system which reduces long term risks and also a system which incorporates quick changes. And this could be imparted by Spiral Model.

5) Incremental Model as the new set of features will be taken into consideration and then accumulated with current features by updating the website.

6) Waterfall model as the problem is well understood and will have minimal changes in the requirements.

7) In the Case of virtual reality system to support software maintenance we do not know the requirements before hand ,they would only be known with time. So a comprehensive system which is reliable and is able to incorporate and prioritise the unclear requirements such as Spiral Model is recommended.

8) The most appropriate software model will be WaterFall Model as it has to replace the existing so system requirements can be predicted and also they are stable and reusable.

9) Prototype Model as the system is required to be user friendly and have reliable UI.

10) Iterative Model is appropriate as the system should manage change well . And the modifications required during an emergency situation is not known beforehand.

11) WaterFall Model as functionalities expected from ECG Machine is fixed and the changes in the requirement will be minimum.

12) Waterfall Model as it is a well understood project with zero requirements changes. It will be most efficient as it has the complete control over the process that enhances the quality.