IT314 Software Engineering

Lab 1: Choosing Software Process Models

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1)A simple data processing project.
→Model : Waterfall
→In simple data processing we know basic requirements.

2) A data entry system for office staff who have never used computers before. The user interface and user-friendliness are extremely important.
→Model :Prototyping
→For novice system users,Prototyping is the good model

3) A spreadsheet system that has some basic features and many other desirable features that use these basic features.
→Model : Agile
→We can make desirable features more precise.

4) A web-based system for a new business where requirements are changing fast and where an in-house development team is available for all aspects of the Project.
→Model : Scrum
→ New business requirements change fast, So system need to change frequently.

5) A Web-site for an on-line store which has a long list of desired features it wants to add, and it wants a new release with new features to be done very Frequently.
→Model : Scrum
→We want to frequently change features.

6) A system to control anti-lock braking in a car.
→Model : Waterfall
→We have requirements that will not change.

7) A virtual reality system to support software maintenance
→Model :Incremental Model
→In this type of system requirements change after implementation.

8) A university accounting system that replaces an existing system
→Model : Waterfall
→we have set basic requirements that will not change.

9) An interactive system that allows railway passenger to find train times from terminals installed in stations.
→Model : Waterfall
→we have set basic requirements that will not change.

10) Company has asked you to develop software for missile guidance system that can identify a target accurately.
→Model : Spiral
→we have a guidance system, it has to be accurate so we analyze it many times.

11) When emergency changes have to be made to systems, the system software may have to be modified before changes to the requirements have been approved. Choose a process model for making these modifications that ensures that the requirements documents and the system implementation do not become inconsistent.
→Model : Spiral
→ We can change the system and ensure documents.

12) Software for ECG machine.
→Model : Waterfall
→For ECG machine we have basic requirements that will not change.

13) A small scale well understood project (no changes in requirement will be there once decided).
→Model : Waterfall
→we have a small scale project with no change in requirement.