# Team X

# SOFTWARE DEVELOPMENT LIFE CYCLE

## Process Model

* **Provide an analysis regarding the nature and environment of the software that you are going to develop and select the best suitable method(s) to develop the software.**

Our software is going to be needed a lot of upgrading works and feedback from clients as it is meant to be made for them. So, in order to cope up with the demands of the clients and the consumers and also the technical workers workflow, we are going to use an iterative methodology in our software. There are many models available, as ours might be using the agile method. But based on the time constraints that might be looked on this software of ours, we have decided to use XP programming. As our software won’t need too much of documentation and also it won’t need any complex design, XP method will work just fine here. Also, the whole process is visible and accountable, developers and the technical workers can easily demonstrate their progress. Constant feedback is going to be vital in our project, which is easily obtained by this method. Regular testing and scrutinizing will help our software give the employee satisfaction also the clients and the clientele fulfill their demands.

* **Present your arguments based on your analysis about why your selected method(s) is the best choice among all other methods to develop your proposed software.**

We are selecting Extreme Programming (XP) which is an agile software development framework that aims to produce higher quality software and higher quality of life for the development team. Extreme Programming (XP) is considered to be the best method among all the methods to us. This method has some advantages that any other method can’t give us.

* The main advantage of Extreme Programming is that this methodology allows software development companies to save costs and time required for project realization. Time savings are available because of the fact that XP focuses on the timely delivery of final products. Extreme Programming teams save lots of money because they don’t use too much documentation. They usually solve problems through discussions inside of the team.
* Simplicity is one more advantage of Extreme Programming projects. The developers who prefer to use this methodology create extremely simple code that can be improved at any moment.
* The whole process in XP is visible and accountable. Developers commit what they will accomplish and show progress.
* Constant feedback is also the strong side. It is necessary to listen and make any changes needed in time.
* XP assists to create software faster thanks to the regular testing at the development stage.
* Extreme Programming contributes increasing employee satisfaction and retention.

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