SEPM Assignment

* It is an election management system that has well defined and fixed requirements and is a sensitive kind of system that needs accuracy of data collection and privacy of data collected and how to manage fraud cases and detect them, which need deep business understanding and risk management as well as excellent testing cases. This can be achieved by applying essential security checks and validations. This model is rather small or medium-sized.
* When we review the most known SDLC models, we find out that iterative and incremental models are the best-suited models for this problem statement.
* Iterative Model – As we know iterative model is best suited for small, fixed requirement systems. These features more often match the needs of the development process of an election management system. The system will be released at once. For example, you cannot do the election process if you do not have an identity management module or fraud detection
* Incremental Model – As this model is best suited when the requirements of the complete system are clearly defined and understood, and when the system is medium-sized, therefore we can use the Incremental model for the development process of an election management system. The incremental model can handle little risk which will be helpful as this software might have little risk. We know incremental model do testing and security checks after each iteration is completed. So due to these reasons, the incremental model is best suited for this system. Maybe according to the business needs, they can ask to do some modules regarding the software itself in one iteration and the analytics and reports in another iteration. But still, I do not think this will happen in a real-life example with a similar type of system.
* After the complete analysis, We can conclude that the **incremental model** is the most optimal SDLC model for an election management system. The **iterative model** can also be used for this software.