

Incremental development is best suitable for our project:

Approach to choose the model:-

1. The project's software process model framework is specific to use in hostels. As a result, the software process model must be chosen following the software to be built. The software project is considered efficient if the process model is selected based on the requirements. When adopting a process model, it's also crucial to consider time because time limitations play a significant role in software development. The project type and related risks, needs, and users are the most important characteristics when choosing a process model.
2. Analysing our project in terms of scale, complexity, and so on is one of the most important aspects of choosing a process model. It's worth noting that only a few process models place a premium on risk assessment.

We want to develop our model on this method because:

- A) It employs incremental development, which entails developing a system in stages and exposing it to customers for feedback before delivering and deploying it in the customer's environment, in this case in hostels. Each increment or version of the system includes some of the customer-requested features. Early increments are, in general, the most significant or urgently required functionality.
- B) It's a challenge for complicated systems when separate teams are responsible for different aspects of their development. We need the members working on other system parts to define the architecture clearly. Because total delivery ensures that the software is used in real-world operations, user input is more accurate.
- C) Each item on the list represents a task that should be completed in one step of the iterative enhancement process and should be easily comprehended. By selecting jobs in this manner, the risk of error is reduced, and the amount of redesign work is reduced.

The following the advantage of the model :

- I. The expense of adapting to changing customer demands is lower.
- II. The amount of analysis and documentation developers must redo a fraction of the waterfall approach requires.
- III. It is much easier to obtain client feedback on previously completed development work.
- IV. Customers can leave feedback on software demonstrations and observe how much has been incorporated.

V. It can deliver and deploy helpful software to customers more quickly.

VI. Customers can benefit from the product sooner than they might with a waterfall process.