

Practical 1.2 : Study of various Problem domains and Identify Problem definition: Describe SDLC model used your project.

Project: Student Fess Management System.

SDLC model selected for project: Agile Model.

The meaning of Agile is swift or versatile. Agile SDLC model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product. Agile Methods break the product into small incremental builds or we can say small parts. These builds are provided in iterations. Each iteration typically lasts from about one to three weeks.

Each iteration is considered as a short time "frame" in the Agile process model, which typically lasts from one to four weeks. The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements.

At the end of the iteration, a working product is displayed to the customer and important stakeholders. The time to complete an iteration is known as a Time Box. Time-box refers to the maximum amount of time needed to deliver an iteration to customers. So, the end date for an iteration does not change.

The reason for choosing Agile model for our Student Fees Management System is that, if the fees collection manager of the college later wants to change some of his requirement and if he wants to include some new features with the change of technology then it will be easy for us to do so.



Advantages:

- Customer satisfaction is rapid, continuous development and delivery of useful software.
- Product is developed fast and frequently delivered (weeks rather than months.).
- Regular adaptation to changing circumstances.
- Even late changes in requirements are welcomed.
- In this methodology attention is paid to the good design of the product.
- In Agile methodology the daily interactions are required between the business people and the developers.

Disadvantages:

- In Agile methodology the documentation is less.
- Sometimes in Agile methodology the requirement is not very clear hence it's difficult to predict the expected result.
- In few of the projects at the starting of the software development life cycle it's difficult to estimate the actual effort required.
- Because of the ever-evolving features, there is always a risk of the ever-lasting project.
- For complex projects, the resource requirement and effort are difficult to estimate.