Software Engineering (CSE300)

Event Activity Management - "EventLog"

Group 7

Selected Model: Scrum (in Agile)

Scrum is an iterative and incremental agile project management methodology that aims at releasing software capabilities every 2-4 weeks.

- Scrum is adaptable. It can accommodate changes based on current conditions and can be integrated into the project running in progress.
- Shorter feedback loops increase user satisfaction and can help accommodate changes based on the feedback quickly.
- Scrum methodology is ideal for a small size group team.
- Scrum has more transparency and visibility compared to any other methodology. Regular Scrum meetings facilitate face-to-face communication thereby enhancing effectiveness and productivity.
- Scrum has proven to deliver the product 30-40% faster than other methodologies.

Why Agile over Spiral and Incremental ?

Spiral

- Agile can have parallel sprints, while spiral doesn't support parallel processes.
- It is suitable for large projects and also demands risk assessment expertise.

Incremental

- Problems might arise due to the fixed system architecture that restricts the changes in requirements in the later stages of the development of the software.
- It requires a clear and complete definition and requirements of the system at the start of the project so that it can be broken down into small increments and built it.

Why Scrum over Kanban and FDD (Feature Driven Development) ?

Kanban

- Scrum has fixed lengths of sprints, whereas Kanban consists of continuous flow work which increases the difficulty in the prediction of specific timelines for completion of tasks.
- It is best for the projects having highly varying priorities which is not the case with our project as it consists of stable priorities that do not change with time.

Feature Driven Development

- It results in longer feedback loops which result in inefficiency and delayed progress of the system product.
- Clients are not provided with written documentation that makes it difficult to access and prove the product's capability.

Hence, **Scrum** seems the best choice and an ideal fit for our project model.