**‘Lifeline’ - Blood and Plasma Donation Website - Model Selection**

### **PREPARED FOR**

CSE300 - Software Engineering

School of Engineering and Applied Science, Ahmedabad University

### **PREPARED BY**

Group 5:

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# **1. The reasons behind selecting SCRUM model**

* In our software, the requirements are likely to change with time, scrum is very flexible for changing requirements.
* The roles in scrum are allotted and kept fixed which would help in proper decision making.
* It also considers project management as a shared value-creation process with teams working together to offer the highest value.
* Scrum is suitable for this team length and it provides structure to the entire team.
* Each sprint helps us to identify what and how should we proceed for the further project - effective decision making.

# **2. Agile over other process models**

1) Linear Model (Waterfall, V-shaped):

● Too much planning is required in the Linear model to get started with the project.

● User’s dynamic needs are not considered in the Linear model .

● We cannot go to previous phases.

● Set of predefined phases which cannot be modified according to the developer’s need.

● Single cycle and no feedback can be implemented.

2) Linear+parallel(Incremental):

● There is no fixed time in iterations

● Does not accommodate changes to already developed increments

3) Iterative+Evolutionary(Prototyping, Spiral, Component-Based Development):

● Efficiency may be compromised in order to make the prototype available quickly.

● Spiral models require significant risk assessment expertise.

● Stakeholders may want to go with some quick fixes in the prototype which compromises quality of the software.

# **3. SCRUM over other agile models**

1. XP:

* Less importance to the design of the software.
* Lack of good documentation.
* Not best for geographically separated team members.
* Rules are non-negotiable.

1. Kanban:

* No predefined roles of members, whereas in scrum the roles are predefined.

1. Lean:

* Implemented on company level.
* Not a good option for small teams.
* Length of project is not fixed and can go on indefinitely.
* Focuses on improvement of already existing products.

1. Crystal:

* Lack of planning and documentation

1. Feature driven development:

* Very complex process therefore not suitable for small projects.

# **4. Role of each team member according to the SCRUM model**

1. Product owner - Dishita Madani (temporary)
2. Scrum master - Aisha Nagrecha
3. Scrum team - Manasvi Dobariya, Shivani Kadam, Dishita Madani, Yesha Ajudia, Kartavi Baxi, Nisarg Thoriya, Darshak Chavda