# 2. SOFTWARE DEVELOPMENT LIFE CYCLE

## Process Model :

Agile model:This Project we make by Agile Model.

Within the original Manifesto for Agile Software Development the authors focused on four fundamental, core values that underpin solid software development.

* Individuals and interactions: Rather than solely emphasizing systems and tools, the focus should be on the people within the team and the interactions they have while working together on the project. For a project to be successful, it should adapt to not just the systems or budget available, but most importantly to the people working on it. If team members are efficient and effective at working together, the end result will be a polished and optimized product.
* Working software: While documentation can certainly be very beneficial during development, it is far better to produce a working product, or even a simple prototype, that illustrates the design goals or the components used throughout the application. This is beneficial not only to other team members working on development, management, and marketing, but especially to clients or testers who would otherwise be forced to rely on a handful of documents and photoshopped illustrations to understand how the application is expected to function.
* Customer collaboration: As with online bank management system or any other development model born from the roots of the agile model, it is critical that the project be constantly open, willing, and able to respond to customer feedback and behavior. By keeping customers or clients in the loop throughout the entire life cycle, everyone involved will be on the same page and there will not be any surprises at the end or massive rewrites necessary because a module or integration wasn’t clear for all parties involved.
* Responding to change: Perhaps the most critical principle across the entirety of the agile model is the ability for the project to adapt and respond to the ever-changing needs of everyone and everything involved. As development progresses, software technologies will change, the team will shift, clients will hem and haw, and throughout it all, the project should remain malleable and remain capable of adapting along with these needs
* There are some principle of agile model

1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
2. Welcome changing requirements, even late in development. Agile processes harness change for the customer’s competitive advantage.
3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
4. Business people and developers must work together daily throughout the project.
5. Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
7. Working software is the primary measure of progress.
8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
9. Continuous attention to technical excellence and good design enhances agility.
10. Simplicity–the art of maximizing the amount of work not done–is essential.
11. The best architectures, requirements, and designs emerge from self-organizing teams.
12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

## 2.2 Project Roll Identification and Responsibilitie

Agile Master : Scrum Master interacts with the project team as well as with the customer and the management during the project. Afreen is the agile master.I am seclect the team of this kind of project .

Product Owner :MD Arnob Ibna Hasan is a Product owner . Product Owner is officially responsible for the project, managing, controlling, and making visible the Product Backlog list. I am selected by the Scrum Master, the customer, and the management.

He makes the final decisions of the tasks related to product Backlog.

Agile Team : MD Fahad Abdullah and MD Sifat Islam is a Agisle Team .they are full fill all the customer reqqurments.Scrum Team is the project team that has the authority to decide on the necessary actions and to organize itself in order to achieve the goals of each Sprint.

The scrum team is involved, for example, in effort estimation, creating the Sprint Backlog, reviewing the product Backlog list and suggesting impediments that need to be removed from the project

**Management :**MD Muhimunul Islam is a manager .he manage all the team