**AGILE METHORD**

**Development Life Cycle**

The Bus Management System was being built with Agile method of Software Development Life Cycle. The Agile SDLC in ideal for this system with challenging requirements where collaboration and feedback are critical, and the involvement is essential. It is an iterative and incremental approach to software development. It emphasizes flexibility, collaboration, and users feedback.

1. **Sprint 0 - Requirement Gathering & Planning**

* Define user stories for Driver, Bus, Routes, etc.
* Plan sprints and prioritize features.

1. **Sprint 1 - Design**

* Design system architecture, database, and relationships (Driver ↔ Bus, Routes ↔ Schedule).

1. **Sprint 2 - Development**

* Develop core features in iterations (e.g., route management, driver assignment, scheduling).
* Deliver increments after each sprint.

1. **Sprint N - Testing**

* Continuous testing after each sprint (unit, integration, user testing).

1. **Sprint N+1 - Deployment**

* Deploy and release features incrementally.

1. **Maintenance**

* Gather feedback, fix bugs, and enhance features in future sprints.