

### 3. Difference Between Traditional and Agile Project Management

- **Traditional Project Management:**
  - Linear, sequential approach (e.g., Waterfall model).
  - Heavy documentation and structured phases.
  - Limited flexibility once project scope is set.
  - Best for predictable and well-defined projects.
- **Agile Project Management:**
  - Iterative and adaptive approach.
  - Prioritizes collaboration and customer feedback.
  - Flexible, accommodating changes at any stage.
  - Best for projects requiring innovation and quick adaptations.

### 4. Understanding Agile Principles

- **Key Values of Agile** (from the Agile Manifesto):
  - **Individuals and interactions** over processes and tools.
  - **Working software** over comprehensive documentation.
  - **Customer collaboration** over contract negotiation.
  - **Responding to change** over following a plan.
- **Twelve Principles:** Examples include delivering working software frequently, promoting sustainable development, and encouraging face-to-face communication.

### 5. Agile Frameworks and Methodologies

- **Scrum:** A popular Agile framework with defined roles (Product Owner, Scrum Master, Development Team), events (Sprint Planning, Daily Stand-ups, Reviews), and artifacts (Product Backlog, Sprint Backlog).
- **Kanban:** Visual framework emphasizing continuous delivery; uses a Kanban board for workflow visualization.
- **Lean:** Focuses on efficiency, reducing waste, and optimizing value delivery.
- **Extreme Programming (XP):** Enhances software quality through practices like continuous integration, test-driven development (TDD), and pair programming.
- **SAFe (Scaled Agile Framework):** Designed for large organizations needing to scale Agile principles.

## 6. Agile Tools and Software

- **Jira:** Project tracking software with Scrum and Kanban support.
- **Trello:** Visual task management tool using cards and boards, often for simpler Kanban-style workflows.
- **Asana:** Task management tool supporting Agile workflows, useful for team collaboration.
- **Slack:** Communication tool often used in Agile teams for real-time collaboration.
- **Confluence:** Documentation tool integrated with Jira, ideal for managing Agile project documents.