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Q. Summary on different project methodologies

**Traditional Methodologies:**

* **Waterfall:**

A sequential approach where each phase (planning, design, implementation, testing, deployment) must be completed before the next begins. It's well-suited for projects with clearly defined requirements and stable environments.

* **Critical Path Method (CPM):**

Focuses on identifying the longest sequence of tasks that determine the project's overall timeline. It helps in prioritizing and managing project activities effectively.

* **PRINCE2:**

A structured approach widely used in the UK, emphasizing controlled environments and risk management.

**Agile Methodologies:**

* **Scrum:**

An iterative and incremental approach that uses short sprints to develop and deliver work in cycles. It emphasizes collaboration, feedback, and adaptation.

* **Kanban:**

A visual workflow management system that focuses on continuously delivering value by visualizing the flow of work and limiting work in progress.

* **Lean:**

A methodology focused on eliminating waste and maximizing value for the customer.

* **Extreme Programming (XP):**

An Agile software development framework that emphasizes frequent code releases, testing, and collaboration.