Rapid Application Development (RAD)

Introduction: Rapid Application Development (RAD) is a software development methodology that emphasizes speed and flexibility in delivering software products.

Key features of RAD:

1. Prototyping: Developers create functional prototypes early in the process.

2. Iterative Development: The software evolves through multiple iterations.

3. User Involvement: Active participation of end-users ensures the software meets actual needs and exceptations.

4. Component Reusability: RAD encourages using pre-buit components and modules.

5. Focus on Time Efficiency: The primary goal is to deliver functional software within a short time.

Phases of RAD:

1. Business Modeling: Define the business processes and information flow to align software objectives with business goal.

2. Data Modeling: Identify and structure the data required for the application.

3. Process Modeling: Outline how the data will be processed.

4. Application Generation: Develop the prototypes and working models using tools.

5. Testing and turnover: Test the application for functionality and usability.

Application of RAD:

1. Projects with tight deadlines.
2. Applications requiring frequent updates or evolving requirements.

3. Small to medium projects where user feedback can be easily incorporated.