# Rational Unified Processes

## Description

**Rational Unified Process (RUP)** is a software development process for object-oriented models (object-oriented models use concepts from object-oriented programming to create abstract representations of real-world systems or products, focusing on how they are structured and behave)

## Intent

RUP uses **Iterative and Incremental Development;** projects are broken down intoiterations with each iteration producing a working piece of code. RUP helps identify risks before they happen. The 4 main stages are **Inception:** Defining project goals, assessing viability, and conducting initial risk analysis. **Elaboration,** Developing the architecture and building a stable baseline of the system. **Construction,** Developing the core product and integrating components. **Transition,** Deploying the product to users, gathering feedback, and making final adjustments.

## Possible use

RUP can be used during the development of the product; it will help the developers get constant feedback from the client (from the product they show the client after every phase). It will also help the developers to avoid any security risks that the client might face. It also helps with scheduling and efficiency, this could help the client if their on a smaller budget.

**GeeksforGeeks**, *What is RUP (Rational Unified Process) and its phases?* Available at: [https://www.geeksforgeeks.org/software-engineering/rup-and-its-phases/](https://www.geeksforgeeks.org/software-engineering/rup-and-its-phases/?utm_source=chatgpt.com) [Accessed 8 Oct. 2025].

**ActiveCollab**, *Rational Unified Process (RUP)*. Available at: [https://activecollab.com/learn/project-management-methodologies/rup](https://activecollab.com/learn/project-management-methodologies/rup?utm_source=chatgpt.com) [Accessed 8 Oct. 2025].