

## **Rational Unified Process**

**RUP (Rational Unified Process)** is a software development methodology that provides a structured and iterative approach to software development. It divides the software development lifecycle into four phases: Inception, Elaboration, Construction, and Transition.

1. **Inception**: In this phase, the scope of the project is determined and the high-level requirements for the e-shop platform are defined. This includes determining the stakeholders involved, conducting a feasibility study, and creating a high-level vision for the platform.
2. **Elaboration**: In this phase, the high-level requirements are refined, and the architecture of the e-shop platform is developed. This includes defining the functional and non-functional requirements, creating a detailed design, and conducting risk analysis.
3. **Construction**: In this phase, the e-shop platform is built, including the user interface, product catalog, shopping cart, payment processing, shipping and delivery, order management, customer management, and administration. This phase also includes testing and integration of all the components.
4. **Transition**: In this phase, the e-shop platform is deployed and transitioned to the production environment. This includes final testing, user acceptance testing, and deployment of the platform. Ongoing maintenance and support activities are also planned during this phase.

Throughout each phase of the RUP process, regular reviews and evaluations are conducted to ensure that the platform is on track to meet the desired outcome. The end goal of the RUP process for an e-shop application is to deliver a high-quality, user-friendly, and reliable platform that meets the needs of customers, sellers, and administrators.

### **Adjusting RUP in E-Shop Application**

Adjusting RUP process in our application the phase become clearer:

1. **Inception**: In this phase, the scope of the e-shop application project is determined and the high-level requirements for the platform are defined. This includes determining the stakeholders involved, such as the customers, sellers, administrators, and shops, conducting a feasibility study, and creating a high-level vision for the platform.
2. **Elaboration**: In this phase, the high-level requirements are refined, and the architecture of the e-shop platform is developed. This includes defining the functional and non-functional requirements, such as creating a detailed design for the user interface, product catalog, shopping cart, payment processing, shipping and delivery, order management, customer management, and administration, as well as defining the shop and shop category components.
3. **Construction**: In this phase, the e-shop platform is built, including the user interface, product catalog, shopping cart, payment processing, shipping and delivery, order management, customer management, and administration. This phase also includes testing and integration of all the components, including the shops and shop categories.
4. **Transition**: In this phase, the e-shop platform is deployed and transitioned to the production environment. This includes final testing, user acceptance testing, and deployment of the platform. Ongoing maintenance and support activities are also planned during this phase.