

Extreme Programming Methodology

What is Extreme Programming?

- ❖ Extreme Programming is one of the most popular Agile software development methodologies.
- ❖ Extreme Programming focuses on technical practice and skillful development through frequently delivered releases.
- ❖ The name “Extreme” comes from the basic intent to perform each technique and practice to the extreme.

What is Extreme Programming?

- ❖ One of the differences between Extreme Programming and other Agile methodologies is the shorter iterations the Extreme Programming methodology has.
- ❖ Extreme Programming is mostly known for its technical practices.

Extreme Programming Core Values

- ❖ The Extreme Programming core values include the following:

Communication

Simplicity

Feedback

Courage

- ❖ Based on these values the Extreme Programming core technical practices were set.

Core Technical Practices

❖ The Extreme Programming core technical practices include:

Planning Game

Plan the work to be incremental. Take into consideration customer's desired features.

Small Releases

Release as fast as possible in order to get customers and users feedback as soon as possible and in order to increase time to market. A tested release will be delivered in the end of each iteration.

On Site Customer

Having a constant simple communication with the customer will allow the fastest possible speed.

Core Technical Practices

Metaphor

Choosing (if possible) a name to describe the project (“bidding” as a metaphore for gambling system).

Simple Design

Choose the simple design. Don't take into consideration future developing.

Pair Programming

Working in pairs. All code is reviewed by two (at least). Better code. Better design. Better design. Working in pairs also helps communicating the knowledge through the team.

Core Technical Practices

Refactoring

Instead of a complete careful design up front change the implementation during the developing iterations without changing the interface via implementing various refactoring techniques.

Collective Code Ownership

Anyone can introduce changes to any code.

Continuous Integration

The entire code of all teams is fully integrated at all times throughout the development process.

Sustainable Pace

Reasonable working pace. No late hours. No nights without sleep.

Core Technical Practices

Whole Team

Team members work in team. Learning about all members responsibilities. Technologies.

Code Standards

Standards to ensure consistent coding. Standards to maximize the communication.

On Site Customer

Having a constant simple communication with the customer will allow the fastest possible speed.

Extreme Programming Roles

❖ The following roles should be assigned:

Customer

The team member that creates and prioritizes the stories that need to be implemented. The customer actually has control of what will be included within each release.

Programmer

The programmers as a team get to hear the stories. Each programmer get responsibility to perform the design, the code and the testing for specific tasks he takes responsibilities for.

Extreme Programming Roles

Coach

Monitors the development process. Mentors. Focuses the teams attention on potential problems.

Tracker

Tracks the team's progress and alerts when there is a need to adjust or re balance the planned developing tasks.

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