Survey: Usage and perceptions of agile software development in an industrial context: An exploratory study

Courtesy: Priyabrata Senapati

Data Collection

- Anonymous web-based survey offered at Microsoft for a two week period in October 2006.

- Survey sent to 2,281 recipients randomly selected from a pool of 28,000 software developers, test developers and managers.

- Overall response rate was 17% (492 responses).

- Respondents were asked a total of 46 questions divided into three sections: demographics, agile development and pair programming

A. Begel and N. Nagappan, "Usage and Perceptions of Agile Software Development in an Industrial Context: An Exploratory Study," First International Symposium on Empirical Software Engineering and Measurement (ESEM 2007), Madrid, 2007, pp. 255-264, doi: 10.1109/ESEM.2007.12.

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Findings

- Respondents had an average of 9.2 years experience in software industry and they worked for their current team for an average of 2.4 year. This indicates that survey respondents were experienced.

- 156 respondents said their team used agile software development.

- Scrum was found to be the most widely used method.

- Top agile practices that teams followed were coding standards and continuous integration of code.

- Least followed practices were pair programming and test driven development.

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