REFERENCES


Rashmi Popli, Naresh Chauhan, Rajesh Kumar,” Estimation In Scrum Using Project Delay-Related-Factors”, International Journal of Research, YMCAUST.


Appendix: Survey Regarding Problems in ASD

QUESTIONNAIRE

In this work, a survey is being conducted based on the questions asked in this questionnaire. We received 98 responses from software professionals working with Agile experience. The respondents were mostly project managers, scrum masters, team leads followed by software development team members. This survey was done to find out the problems the Agile Team working to develop software projects face. The various questions of the survey and the responses are as below:

1. Q. Which is your Agile Team Type?
   a. Small
   b. Medium
   c. Large Collocated
   d. Distributed

![Bar chart showing responses]

2. Q. Which Agile Method you use?
   a. Scrum
   b. XP
   c. FDD (Feature Driven Development)
   d. DSDM (Dynamic Systems Development)
3. Q. How Effort Estimation is performed
   a. Learning-Based Approach
   b. Expertise based Approach
   c. Regression Based Approach
   d. Planning Poker

4. Q. How Transitioning is performed if management wants to switch from some traditional method to Agile
   a. Directly Apply Agile Life Cycle
   b. Use Agile Processes initially
   c. Some mathematical model
   d. Mapping Function
5. Q. Have you ever tried any method of prioritization of user-stories.
   
a. Yes

b. No

6. Q. Currently At what stage, you face problem while working with Agile
   
a. During prioritization of user-stories

b. Cost Estimation

c. Release Date Estimation

d. Velocity Calculation
7. Q. How Have Agile Approaches Affected the Cost of System Development?

8. Q. Specify problems which you face frequently in your company while working with agile.

9. Q. Specify any estimation tools which is used frequently in your company.

10. Q. How uncertainty of user-stories is removed?

A majority of the respondents (58%) indicated that they use small teams while working with Agile projects and they are using scrum method of Agile. Scrum is the most popular Agile methodology.

The respondents currently use different estimations approaches like learning-based, expertise based regression based and planning poker. More than 85% of the respondents said that there is no estimation tool while working with agile project. The estimation is done in ad-hoc basis. The respondents currently face problems while prioritization of user-stories, while estimating the project. Ninety percent of respondents said that transitioning form a traditional method to Agile is not an easy and one step process. Rather a mapping function must be there for transitioning process. The respondents to a certain extent attribute ASD acceptance problems to organizational resistance and administrative disinterest. Upper management support and lack of training are also identified as challenges compounding the view that lack of administrative actions are probably the biggest roadblocks to the adoption and diffusion of Agile practices.
BRIEF PROFILE OF THE RESEARCH SCHOLAR

Rashmi Popli is pursuing her Ph.D in Computer Engineering from YMCA University of Science and Technology, Faridabad. She is M.Tech (CE) from M.D University in year 2008, B.Tech (IT) from M.D University in the year 2004. She has 11 years of experience in teaching. Presently she is working as Assistant Professor in Department of Computer Engineering in YMCA University of Science & Technology, Faridabad. Her interests include Agile Software Development, Software Engineering, Software Testing and Software Quality. She had 23 research papers published in various International journals and International Conferences.
# LIST OF PUBLICATIONS

List of Published Papers in International Journal

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<th>S.No</th>
<th>Title of the paper along with volume, Issue No, year of publication</th>
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<th>Impact Factor</th>
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<td>3.</td>
<td>Research Challenges of Agile Estimation, in International Journal of Information Technology and Knowledge management, IJITKM Volume 7, Number 1, December 2013 pp. 108-111 (ISSN 0973-4414)</td>
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<td>1.</td>
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INTERNATIONAL CONFERENCES

1. Rashmi Popli, Naresh Chauhan “Mapping of Traditional Software Development Methods to Agile Methodology” Third International Conference on Computer Science, Engineering & Applications(ICCSEA-2013), 24th-26th May 2013, Delhi, India.

2. Rashmi Popli, Naresh Chauhan “Sprint-Point Based Estimation in Scrum” proceedings of IEEE International Conference on Information Systems and Computer Networks, conference held on 9th-10th March 2013 at GLA University, Mathura.


INTERNATIONAL JOURNALS


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1 Rashmi Popli, Naresh Chauhan,” A Sprint-point based Estimation Technique in Agile Environment, Inderscience publishers.