Principles of Distributed Agile Development

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ABSTRACT

Agile teams embrace change, companies today have agile teams running the software development process. The communication within the particular team is of utmost importance however how the agile team communicates with other agile teams is one of the most critical parts of developing a software. Team effectiveness depends upon trust between the small agile teams not only within the company environment but also between teams across different geographical locations, time zones and cultures [9]. As John Maxwell said "Team work makes the dream work", this same principle applies for agile teams within an organization.

KEYWORDS

agile, distributed teams, design, teamwork

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1 INTRODUCTION

Agile teams are most effective in small projects (<50 people) who have "easy access to user and business experts" and are developing non-safety critical projects [8]. However, to meet requirements for large scale projects a globalized approach with outsourced teams is becoming common [20] where different teams must work together cohesively, flexibly and rapidly to deliver a product that conforms to requirements specifications. In order for small team based agile practices to be effective in larger scale careful consideration must be given to the collaboration between teams and overall architecture. The following section 2.1 in Main side will cover the information about inter-team collaboration and section 2.2 will cover the importance of architectural design and architects in large-scale agile projects.

2 MAIN

2.1 Inter-team Collaboration

Traditional agile methodology emphasizes self-management[8], in a small team a team member is "cross-functional" and responsible

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for every phase in the agile development of the project. This type of management can be harmful larger projects where other teams working on the project may be in different countries subscribing to different standards of practice, languages and work cultures [20]. Large-scale projects also see a lot of specialization in different aspects from teams and as such strong cohesion between groups is a must. To achieve such strong cohesion a shared mental model (i.e. everyone has a similar understanding of the end result), trust and communication are necessary [13]. Dingsøyer and Moe advocated the establishment of a common set of values between the different teams through the use of workshops to get everyone to speak the "team's language"[8]. The workshops may also allow the members to gain shared knowledge network which is also crucial to the project. A shared knowledge network ensures that scrum members of different team know who to consult when changes need to be made and how changes made could affect the process as a whole. Since large-scale projects are interdisciplinary with specialists of varying kinds working on them it becomes essential to have a well-defined knowledge network.

Dingsøyr and Moe did not believe that Scrum methodology is suitable for large scale agile projects and other agile methodologies will need to be used, however the Sutherland et al. [20] points out that while Isolated Scrum methodology recommended by the Project Management Book of Knowledge, where individual teams do take part only one portion of the project with little to no communication with each other proves to be inefficient in large scale projects, the Distributed Scrum of Scrums approach supported by the Scrum Alliance and the Integrated Scrum model used by the SirsiDynix case study are both excellent models to use [20]. The integrated scrum model used by Sirsi is a modified version of the Distributed Scrum of Scrums, the Integrated model also consists of a main scrum where scrum masters of the different teams report to a Chief Scrum Master and a Chief Product Owner. Secondly to achieve synchronicity across the whole projects teams were spread across sites. This approach while originally may cause some issues will lead to a quick adjustment as it allows different individuals from different backgrounds to understand the work culture and expectations of the Chief Product Owner. Aside from these two major changes care was given to ensure that the six problems that plague Distributed development were handled properly through pre-agreed upon communications protocols (emails for stand-ups for example) and a standardized software and set of guidelines followed on all sites for process and project management. The case study thus proves that Scrum can indeed be used in large-scale distributed projects so long as "good engineering practices" are followed and a "strong central control" is maintained [20].

2.2 Architectural Design

In addition to specifying the *template style* to be used in formatting your work, there are a number of *template parameters* which modify

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Table 1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage

Because tables cannot be split across pages, the best placement for them is typically the top of the page nearest their initial cite. To ensure this proper "floating" placement of tables, use the environment **table** to enclose the table's contents and the table caption. The contents of the table itself must go in the **tabular** environment, to be aligned properly in rows and columns, with the desired horizontal and vertical rules. Again, detailed instructions on **tabular** material are found in the ETEX User's Guide.

Immediately following this sentence is the point at which Table 1 is included in the input file; compare the placement of the table here with the table in the printed output of this document.

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11 MATH EQUATIONS

You may want to display math equations in three distinct styles: inline, numbered or non-numbered display. Each of the three are discussed in the next sections.

11.1 Inline (In-text) Equations

A formula that appears in the running text is called an inline or in-text formula. It is produced by the **math** environment, which can be invoked with the usual \begin . . . \end construction or with the short form \$. . . \$. You can use any of the symbols and structures, from α to ω , available in LaTeX [24]; this section will simply show a few examples of in-text equations in context. Notice how this equation: $\lim_{n\to\infty} x=0$, set here in in-line math style, looks slightly different when set in display style. (See next section).

11.2 Display Equations

A numbered display equation—one set off by vertical space from the text and centered horizontally—is produced by the **equation** environment. An unnumbered display equation is produced by the **displaymath** environment.

Again, in either environment, you can use any of the symbols and structures available in LaTeX; this section will just give a couple of examples of display equations in context. First, consider the equation, shown as an inline equation above:

$$\lim_{n \to \infty} x = 0 \tag{1}$$

Notice how it is formatted somewhat differently in the **displaymath** environment. Now, we'll enter an unnumbered equation:

$$\sum_{i=0}^{\infty} x + 1$$

and follow it with another numbered equation:

$$\sum_{i=0}^{\infty} x_i = \int_0^{\pi+2} f$$
 (2)

just to demonstrate LATEX's able handling of numbering.

12 FIGURES

The "figure" environment should be used for figures. One or more images can be placed within a figure. If your figure contains third-party material, you must clearly identify it as such, as shown in the example below.



Figure 1: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (https://goo.gl/VLCRBB).

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Figure captions are placed below the figure.

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A "teaser figure" is an image, or set of images in one figure, that are placed after all author and affiliation information, and before the body of the article, spanning the page. If you wish to have such a figure in your article, place the command immediately before the \maketitle command:

\begin{teaserfigure}

\includegraphics[width=\textwidth]{sampleteaser}

\caption{figure caption}

\Description{figure description}

\end{teaserfigure}

Table 2: Some Typical Commands

Command	A Number	Comments
\author	100	Author
\table	300	For tables
\table*	400	For wider tables

13 CITATIONS AND BIBLIOGRAPHIES

The use of $BiBT_EX$ for the preparation and formatting of one's references is strongly recommended. Authors' names should be complete — use full first names ("Donald E. Knuth") not initials ("D. E. Knuth") — and the salient identifying features of a reference should be included: title, year, volume, number, pages, article DOI, etc.

The bibliography is included in your source document with these two commands, placed just before the \end{document} command:

\bibliographystyle{ACM-Reference-Format}
\bibliography{bibfile}

where "bibfile" is the name, without the ".bib" suffix, of the $B_{\rm IB}T_{\rm P}\!X$ file.

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\citestyle{acmauthoryear}

Some examples. A paginated journal article [1], an enumerated journal article [7], a reference to an entire issue [6], a monograph (whole book) [23], a monograph/whole book in a series (see 2a in spec. document) [16], a divisible-book such as an anthology or compilation [11] followed by the same example, however we only output the series if the volume number is given [12] (so Editor00a's series should NOT be present since it has no vol. no.), a chapter in a divisible book [34], a chapter in a divisible book in a series [10], a multi-volume work as book [22], an article in a proceedings (of a conference, symposium, workshop for example) (paginated proceedings article) [3], a proceedings article with all possible elements [33], an example of an enumerated proceedings article [14], an informally published work [15], a doctoral dissertation [5], a master's thesis: [4], an online document / world wide web resource [2, 28, 35], a video game (Case 1) [27] and (Case 2) [26] and [25] and (Case 3) a patent [32], work accepted for publication [29], 'YYYYb'test for prolific author [30] and [31]. Other cites might contain 'duplicate' DOI and URLs (some SIAM articles) [21]. Boris / Barbara Beeton: multi-volume works as books [18] and [17]. A couple of citations with DOIs: [19, 21]. Online citations: [35-37].

14 ACKNOWLEDGMENTS

Identification of funding sources and other support, and thanks to individuals and groups that assisted in the research and the preparation of the work should be included in an acknowledgment section, which is placed just before the reference section in your document.

This section has a special environment:

\begin{acks}

• •

\end{acks}

so that the information contained therein can be more easily collected during the article metadata extraction phase, and to ensure consistency in the spelling of the section heading.

Authors should not prepare this section as a numbered or unnumbered \section; please use the "acks" environment.

15 APPENDICES

If your work needs an appendix, add it before the "\end{document}" command at the conclusion of your source document.

Start the appendix with the "appendix" command:

\appendix

and note that in the appendix, sections are lettered, not numbered. This document has two appendices, demonstrating the section and subsection identification method.

16 SIGCHI EXTENDED ABSTRACTS

The "sigchi-a" template style (available only in LaTeX and not in Word) produces a landscape-orientation formatted article, with a wide left margin. Three environments are available for use with the "sigchi-a" template style, and produce formatted output in the margin:

- sidebar: Place formatted text in the margin.
- marginfigure: Place a figure in the margin.
- margintable: Place a table in the margin.

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A RESEARCH METHODS

A.1 Part One

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A.2 Part Two

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