

Review Form 1.7

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_113678
Title of the Manuscript:	IN-DEPTH EXPLORATION OF AGILE SOFTWARE DEVELOPMENT METHODOLOGIES
Type of the Article	

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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p><u>Compulsory</u> REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. The manuscript provides valuable insights into various Agile software development methodologies, making it important for the scientific community involved in software engineering and project management. It offers a comparative analysis of different Agile approaches, aiding researchers, practitioners, and students in understanding the nuances of each methodology. 2. The title "In-Depth Exploration of Agile Software Development Methodologies" effectively captures the scope of the manuscript. However, to enhance clarity and specificity, I suggest considering a slightly more descriptive title, such as: <ul style="list-style-type: none"> • "A Comparative Analysis of Agile Software Development Methodologies: Understanding XP, Scrum, FDD, DSDM, ASD, and Kanban." • "Comparative Analysis of Agile Software Development Methods: An Empirical Study." • "A Review of Agile Software Development Methodologies" • "Empirical Study of Agile Software Development Methodologies: A Comparative Analysis" 3. The abstract provides a concise overview of the manuscript, summarizing the key topics covered, including the examination of six Agile software models. However, it could be enhanced by including specific findings or insights derived from the examination, providing readers with a clearer understanding of the manuscript's contributions. 4. The manuscript follows a logical structure with clearly delineated subsections, facilitating readability and comprehension. However, it could benefit from minor revisions to improve the flow between sections and ensure seamless transitions from one topic to the next. <p>To enhance the flow of the manuscript, the following adjustments could be made:</p> <ol style="list-style-type: none"> 1. Introduction: Ensure that the introduction provides a clear overview of the importance of agile software development methodologies and their relevance in the current software engineering landscape. This section should set the stage for the subsequent discussion on various agile methodologies. 2. Literature Review: Streamline the literature review section to provide a concise summary of existing research on agile methodologies, focusing on key concepts and developments that have led to the emergence of agile practices. 3. Overview of the Model: Expand this section to provide a comprehensive overview of each agile methodology discussed in the manuscript. Ensure that each methodology is introduced clearly and succinctly, highlighting its key principles and characteristics. 4. Comparative Analysis: Improve the coherence of the comparative analysis by organizing the discussion around common themes or criteria for comparison. This could involve structuring the analysis based on factors such as project size and complexity, customer involvement, documentation requirements, and iteration cycles. 	

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	<p>5. Conclusion: Strengthen the conclusion by summarizing the main findings of the comparative analysis and emphasizing the significance of selecting the appropriate agile methodology for software development projects. Provide recommendations for future research or practical implications based on the insights gained from the analysis.</p> <p>5. The manuscript appears scientifically correct in its approach to analyzing Agile software development methodologies. The inclusion of empirical studies and comparative analyses enhances the credibility of the findings presented in the document.</p> <p>6. The references provided in the manuscript cover a range of sources, including studies, articles, and conference papers. While the references are relevant, it would be beneficial to ensure that the most recent and significant publications in the field are included to strengthen the paper's academic rigor. For example, recent studies on Agile methodologies and their applications could be considered for inclusion in the reference list.</p> <p>7. Additional Suggestions/Comments:</p> <ul style="list-style-type: none">• Clarity and Conciseness: Ensure that the manuscript maintains a balance between technical depth and readability for a wider audience. Clarify complex concepts and terminologies to enhance understanding among readers with varying levels of expertise in Agile methodologies.• Practical Implications: Consider discussing the practical implications of the comparative analysis on real-world software development projects. Providing examples or case studies illustrating the application of different Agile methodologies could enhance the relevance of the research findings.• Future Research Directions: Include a section highlighting potential avenues for future research in Agile software development methodologies. Identifying gaps in the current understanding and suggesting areas for further exploration can contribute to the advancement of knowledge in the field.• Visual Aids: Consider incorporating visual aids such as tables, figures, or diagrams to supplement the textual content. Visual representations can help in presenting complex information more effectively and engaging readers visually.• Practical Recommendations: Conclude the manuscript with practical recommendations for software industries looking to adopt Agile methodologies. Highlight key takeaways and best practices that can guide decision-making in selecting the most suitable approach for specific project requirements.• Language and Grammar: Pay attention to language clarity, grammar, and formatting to ensure the manuscript maintains a professional and polished presentation. Consider proofreading the document for any errors or inconsistencies that may detract from the overall quality of the research.	
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<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article may need improvement for scholarly communications. There are several instances of grammatical errors, awkward phrasing, and unclear expressions that could be revised to enhance the overall readability and academic tone of the manuscript.</p> <p>Here are some examples of text contains several grammatical errors and awkward phrasings:</p> <ol style="list-style-type: none"> 1. "The Kanban philosophy in software development is Just in Time. Manufacturing Production Company uses this method to produce the needed product of the correct quality in a precise place and at a very exact time." - The phrasing is awkward and could be revised for clarity and coherence. 2. "It initiatives development teams to visualise project workflow, reduce work in progress (WIP) at each workflow stage, and quantity iteration." - The sentence lacks proper subject-verb agreement and should be revised for clarity. 3. "Kanban Methodology has recently gained much recognition in many systems, such as manufacturing, gathering, and supply sequence systems, effectively." - The phrasing is unclear and could be revised to convey the message more effectively. 4. "Solely concentrations are on the reduction of unwanted in all informs over-production, needless motion, flaws, processing & waiting." - The sentence lacks clarity and contains grammatical errors. 5. "This model provides a means to visualise and reduce work-in-progress during development." - The phrasing is awkward and could be revised for better clarity. <p>As for # 1, it could be revised as: "In software development, the Kanban philosophy is based on the Just-in-Time principle, where it is used by manufacturing companies to produce the required product of the correct quality at a precise location and time."</p> <p>For the whole paragraph, it could be revised as: The Kanban methodology has gained widespread recognition in various systems, including manufacturing, assembly, and supply chain systems. Visual cues, such as signs or cards, are used to represent and define Kanban. This visual approach, which is implemented in Agile, indicates what to produce, the production duration, and the quantity of production. In software development, the Kanban philosophy is based on the Just in Time principle, where it is used by manufacturing companies to produce the required product of the correct quality at a precise location and time. Kanban inspires fewer incremental modifications in the current system and does not involve certain procedures. It encourages development teams to visualize project workflow, reduce work in progress (WIP) at each workflow stage, and quantify iteration. Kanban has been effectively recognized in various systems, such as manufacturing, assembly, and supply chain systems, with a sole focus on reducing over-production, unnecessary motion, defects, processing, and waiting. This model provides a means to visualize and reduce work-in-progress during development, focusing on work scheduling to facilitate precise implementation and the issuance of software products to customers. Organizations worldwide are adopting Kanban and incorporating it into their current software development processes to enhance business agility. The Kanban process explicitly presents the most significant tasks that require the greatest attention to reduce risk and increase flexibility between other tasks in the project.</p>	
<p>Optional/General comments</p>	<p>The paper provides a detailed overview and comparison of various Agile software development methodologies, offering valuable insights into their characteristics and suitability for different project requirements. However, the manuscript would benefit from a more structured and organized presentation of the content, particularly in the literature review and overview of the model sections. Additionally, the paper should ensure a consistent academic tone and rigor throughout the document.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Jodell R. Bulaclac
Department, University & Country	College of Information and Communication Technology, Nueva Ecija University of Science and Technology, Philippines