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Fall 2025

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EXAM

Agile Software Engineering

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Synopsis

This report analyzes the implementation of Agile principles in practice through an interview-based case study. The purpose is to evaluate how Agile methodologies are applied in real-world software development projects and understand their impact on project success. The analysis focuses on examining development processes, stakeholder management, team dynamics, and continuous improvement strategies within an Agile framework. Through systematic analysis of interview data and theoretical frameworks, this report identifies key success factors, challenges, and recommendations for improving Agile practices in professional software development environments.

Contents

Chapter 1

Introduction

This report analysis is part of the exam assignment in the Agile Software Engineering course at Aalborg University Copenhagen. The purpose is to analyze and evaluate the implementation of Agile principles in practice and understand what they mean for a project's success.

1.1 Background

1.2 Research Objectives

1.3 Methodology

1.4 Report Structure

Chapter 2

Problem Identification and Diagnosis

2.1 Key Challenges

2.2 Problem Analysis

2.3 Root Cause Analysis

Chapter 3

Agile Solutions and Team Dynamics

3.1 Bridging Challenges to Solutions

3.2 Role of Collaboration

3.3 Team Dynamics

Chapter 4

Agile Process Evaluation and Continuous Improvement

4.1 Iterative Refinement and Stakeholder Feedback

4.2 Optimizing Efficiency

4.3 Leveraging the Pipeline for Continuous Improvement

4.4 Further Improvements and Recommendations

Chapter 5

Stakeholder Mapping and Management

5.1 Stakeholder Analysis and Classification

5.1.1 Key Roles and Influence

5.1.2 Categorization

5.1.3 Dynamic Influence

5.2 Role Alignment

5.2.1 Product Owner

5.2.2 Developer

5.2.3 Scrum Master

5.2.4 2nd-Level Stakeholders

Chapter 6

Software Quality and Technology Integration

6.1 Quality Management

6.2 Technology Opportunities

6.3 Tools and Practices

Chapter 7

Production Pipeline and Future Recommendations

7.1 Pipeline Evaluation

7.2 Recommendations

7.3 Long-Term Strategies

7.4 Future Work

Chapter 8

Conclusion

8.1 Summary of Findings

8.2 Key Takeaways

8.3 Reflection

Appendix A

Interview Questions

A.1 Introduction

1. Can you briefly introduce yourself and your role within the company?
2. How does your role specifically influence Agile practices or project outcomes?
3. What was the organization's key motivation for transitioning to Agile?
4. What specific Agile frameworks are being used to manage pipeline processes?
5. How has top management supported Agile adoption or Agile practices?

A.2 Project Success and Failure Factors

1. What critical factors contribute to the success of your software projects?
2. Are there any successful projects you can share, or any unexpected outcomes?
3. How do success factors vary across different types of projects?
4. What lessons from failed projects were applied to improve Agile practices?
5. How do you ensure continuous improvement and avoid complacency?

A.3 Professional Role Alignment

1. How do Product Owners ensure alignment with end-user needs?
2. How do Scrum Masters manage conflicts or impediments during development?
3. How do leadership roles influence alignment within your team?
4. How do developers contribute to maintaining alignment?
5. How do you maintain alignment during high-pressure scenarios?

A.4 Development Process Discussion

1. Can you describe your development process and methodologies used?
2. What motivated your organization to adopt this methodology?
3. How does your methodology support rapid iterations or quick pivots?

A.5 Monitoring and Improvement Strategies

1. How do you measure team effectiveness and project success?
2. What strategies do you use for continuous improvement?
3. How do feedback loops influence prioritization of improvement areas?
4. What training or support mechanisms enhance developers' skills?
5. How do tools like dashboards or AI-based insights help improve performance?
6. What long-term metrics do you monitor for sustained success?

A.6 Software Pipeline

1. What tools or platforms do you use to automate your pipeline?
2. How do you measure the reliability and efficiency of your pipeline?
3. What are the most common challenges when maintaining or scaling the pipeline?
4. Can you share a specific example of a major issue and how it was resolved?
5. Are any future advancements or technologies considered to enhance the pipeline?

A.7 Generative AI in the Software Pipeline

1. Has your company integrated Generative AI into its software development pipeline?
2. What has been the impact on productivity, quality, and team dynamics?
3. What challenges or limitations have you encountered when using Generative AI tools?
4. How has Generative AI influenced your ability to meet customer needs?
5. What was the process of adopting Generative AI tools?
6. How does Generative AI integrate with your Agile development practices?

A.8 Summary and Feedback

1. Is there anything we haven't discussed that you believe is critical?
2. What trends in Agile do you think will shape its future implementation?
3. What emerging technologies or methodologies do you foresee influencing Agile practices?