

# Project Logbook - Edge Computing

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## Project Overview

- **Project Title:** Edge Computing in Cloud Computing
- **Group Members:**
  - Galilea Le Moullec (ID: 202415993)
  - Félicien Moquet (ID: 202415994)
- **Project Duration:** End of January – End of March 2024
- **Objective:** Understanding and analyzing the role of Edge Computing in cloud infrastructures, its advantages, challenges, and applications.

## Work Distribution

Section	Galilea Le Moullec	Félicien Moquet
<b>Importance for Cloud Computing</b>	Explained why Edge Computing is essential	–
<b>Key Concepts</b>	–	Covered fundamental principles, architecture, and comparison with centralized cloud computing
<b>Advantages</b>	Discussed security, privacy, and decentralization benefits	Focused on latency reduction and bandwidth optimization
<b>Challenges</b>	Explained interoperability and cost issues	Addressed distributed resource management and security compliance
<b>Applications</b>	Wrote about autonomous vehicles, smart cities, and healthcare	Covered IoT and industrial applications
<b>Trends and Future Perspectives</b>	Discussed AI, 5G integration, and research opportunities	Covered technological innovations and challenges

## Weekly Progress

Week	Tasks Completed	Galilea's Contribution	Félicien's Contribution
Week 1 (End Jan)	Research on Edge Computing	Initial research	Initial research
Week 2	Defined key concepts	Wrote introduction	Outlined fundamental principles
Week 3	Started writing sections	Drafted definition and objectives	Drafted architecture and comparison sections
Week 4	Worked on advantages and challenges	Wrote about security, privacy	Focused on latency, bandwidth, resource management
Week 5	Applications research	Covered smart cities, healthcare	Covered IoT, industrial use cases
Week 6	Analyzed future trends	Researched AI, 5G integration	Examined research challenges and innovations
Week 7	Writing and refining content	Edited and refined sections	Edited and refined sections
Week 8	Finalizing report	Formatting and checking	Formatting and checking

## Conclusion

The project explored Edge Computing, highlighting its significance in cloud infrastructures. The work was efficiently divided, with each member contributing to research, writing, and analysis. This logbook documents our structured approach and collaborative effort.