

# **Design and implementation of a social networking platform for cloud deployment specialists**

Christos Papoulas

# Agenda

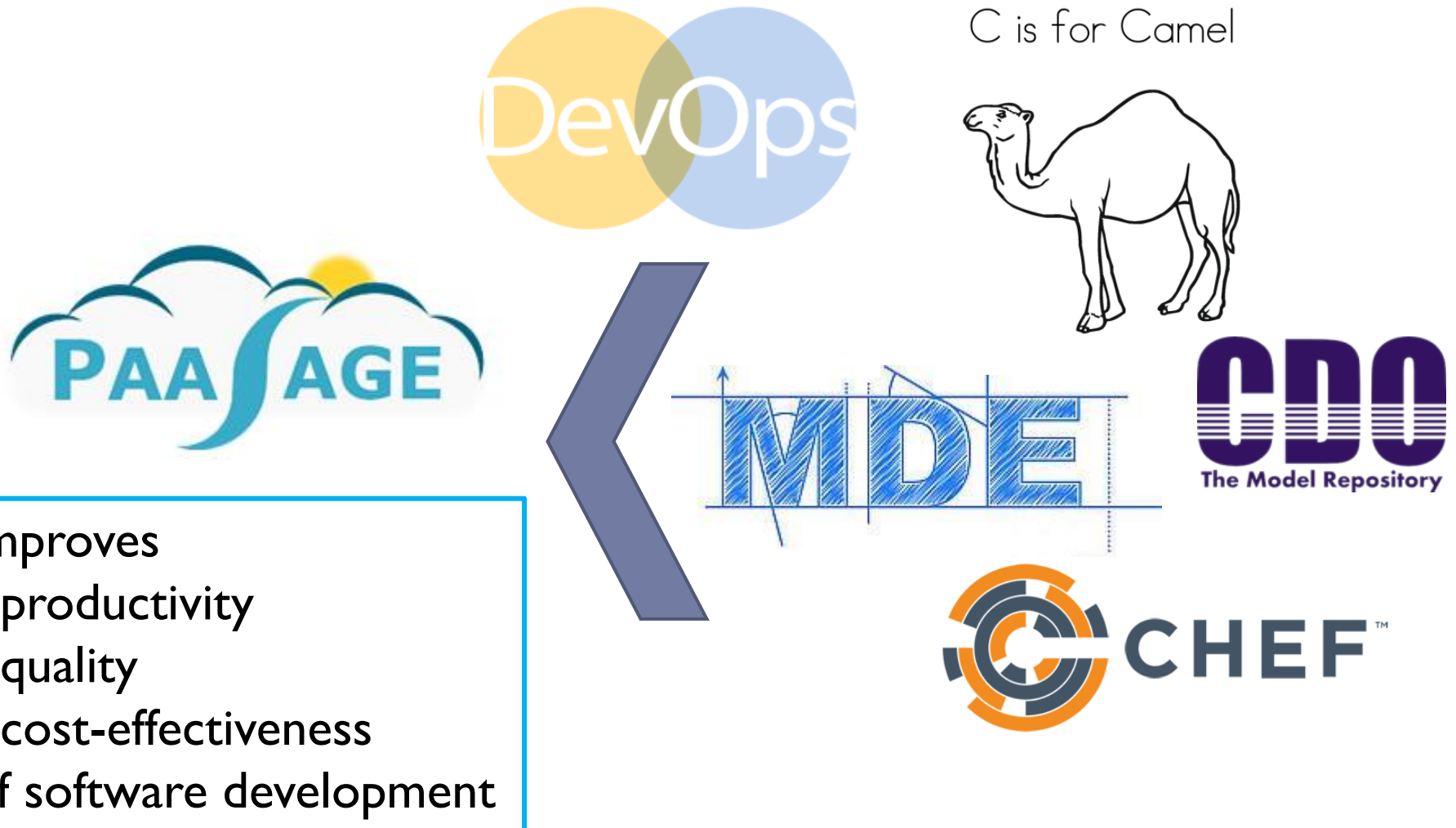
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- ▶ Introduction
- ▶ Design and Implementation
- ▶ Evaluation

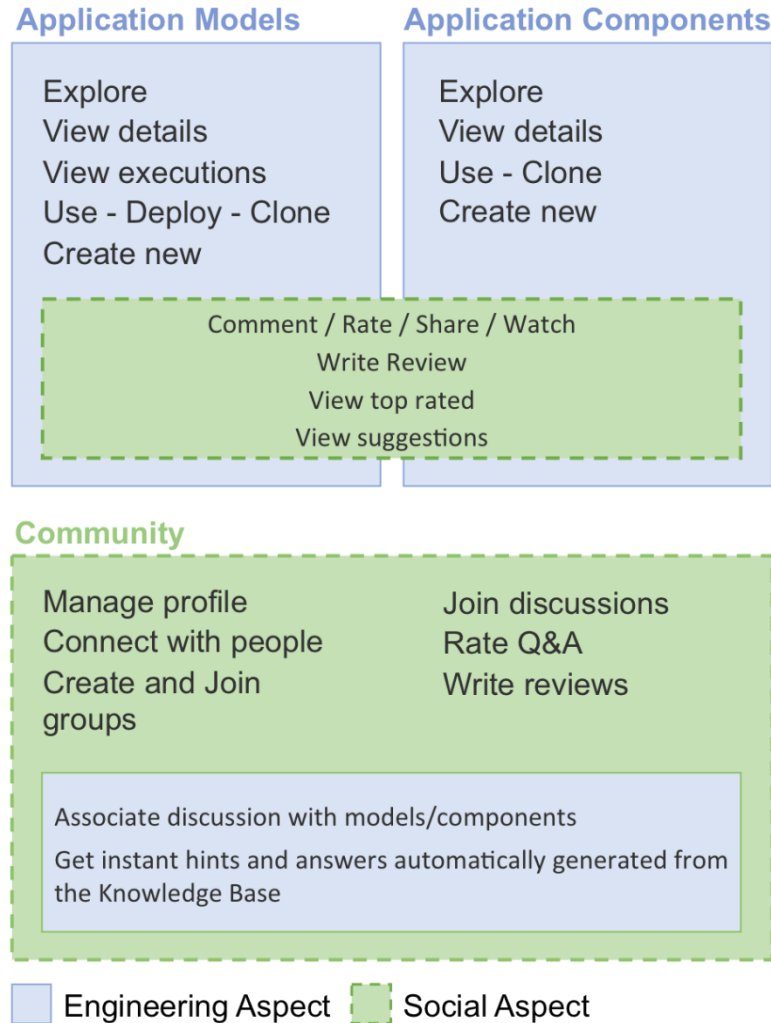


# introduction

# Context



# Research goal



# Research Results

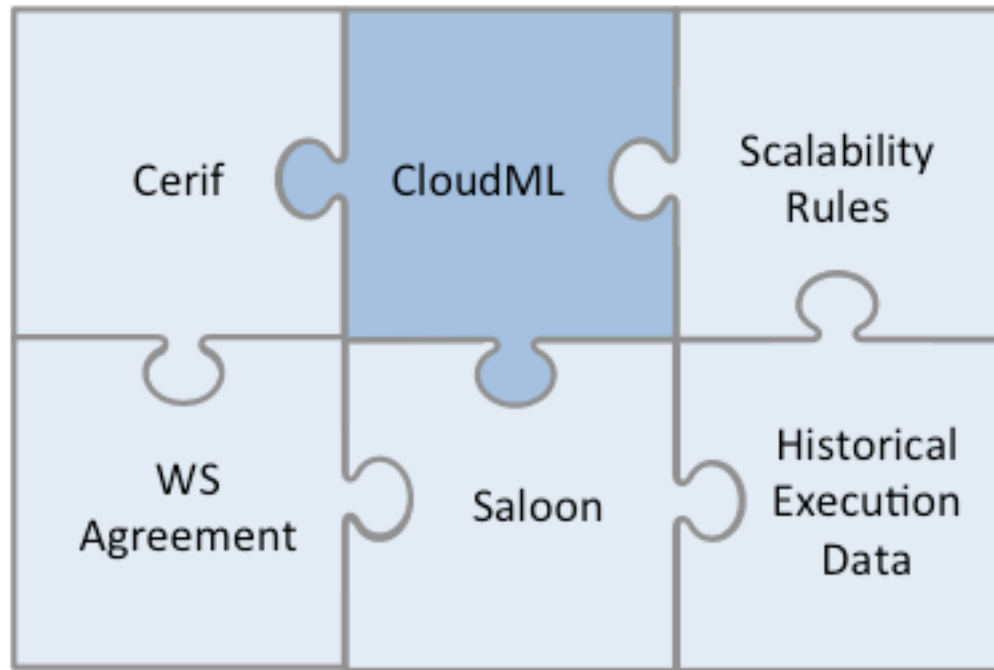
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- ▶ The SNP brings the executions histories of the CAMEL models to the end users
- ▶ The SNP can scale and provide near-real time response time.
- ▶ They used known techniques of Natural Language Processing for the user input.

# Design and Implementation

# CAMEL family

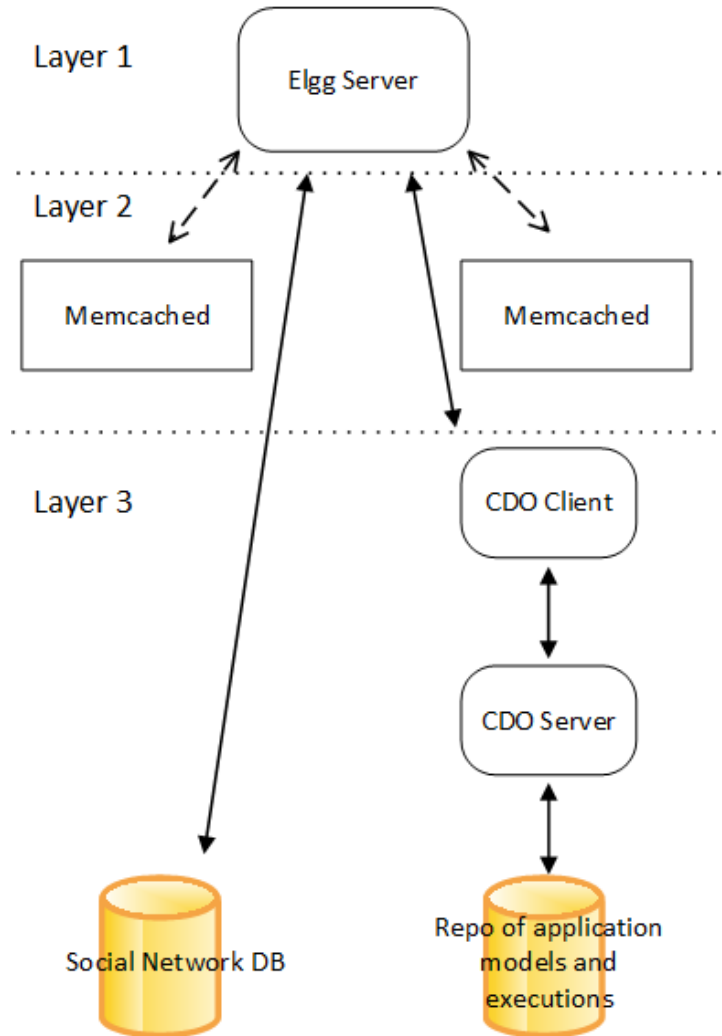
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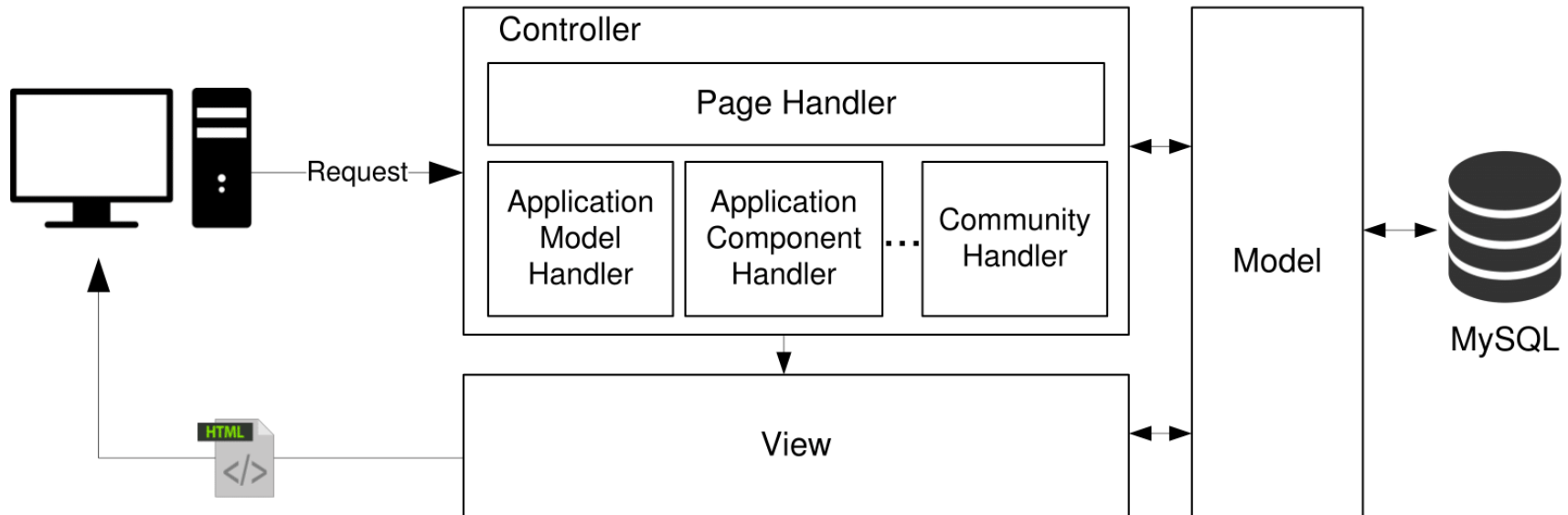
# System Architecture

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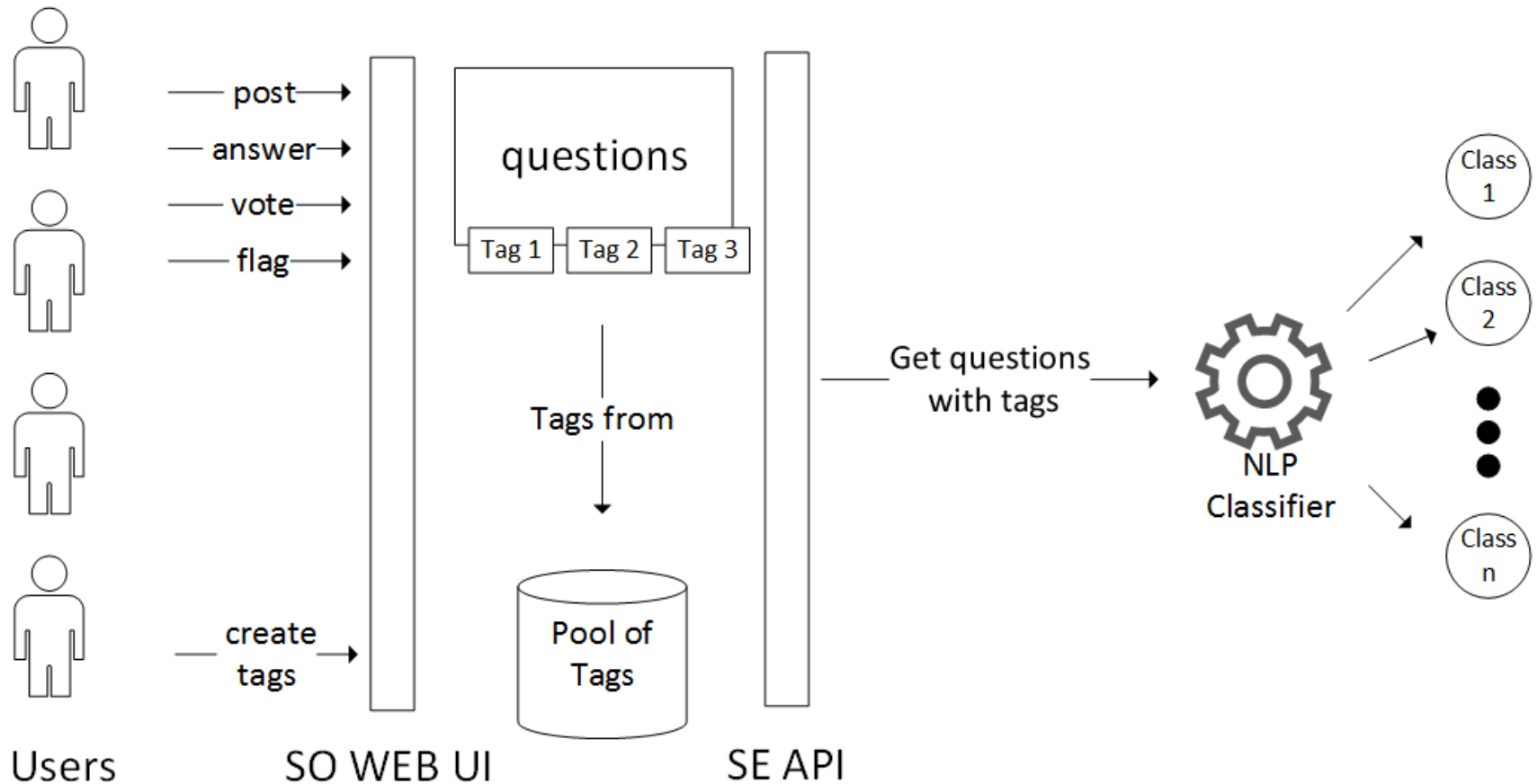


# Social Networking Engine Architecture

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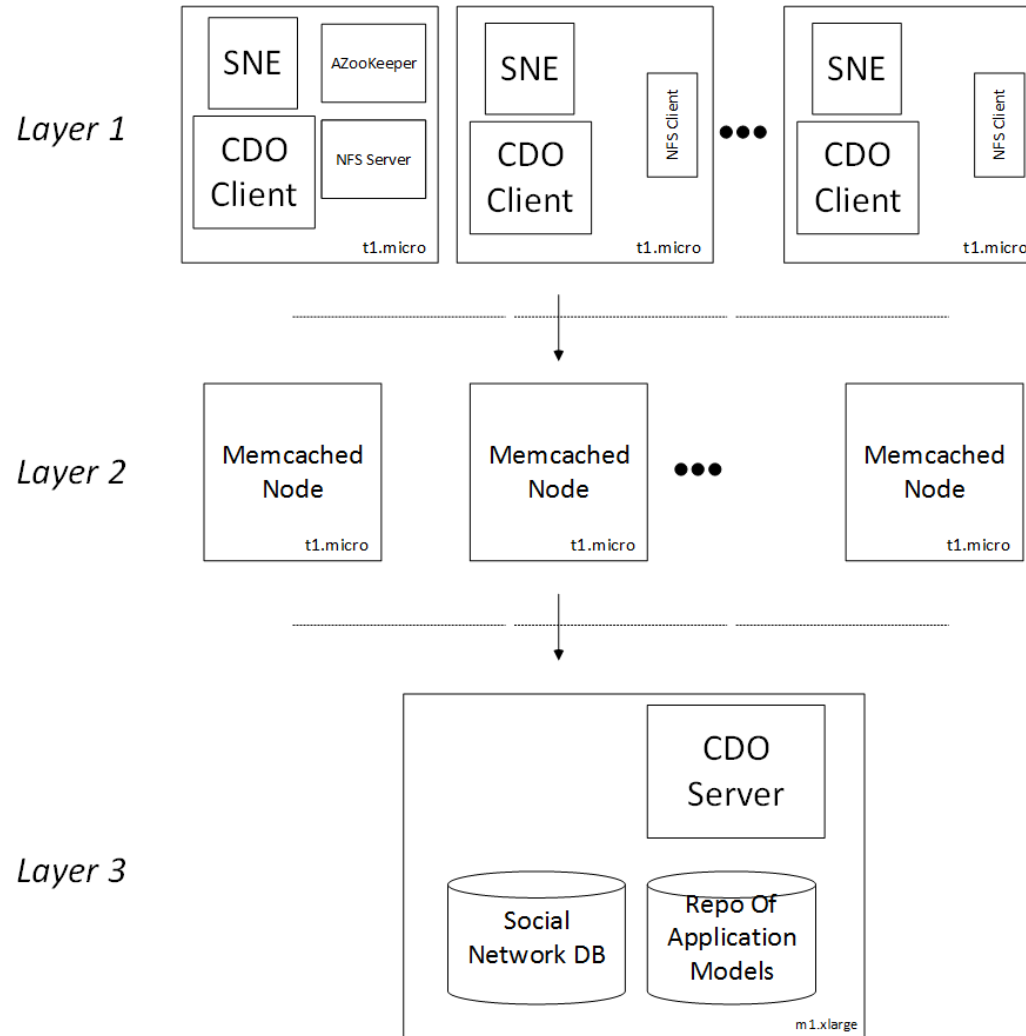


# NLP Classification

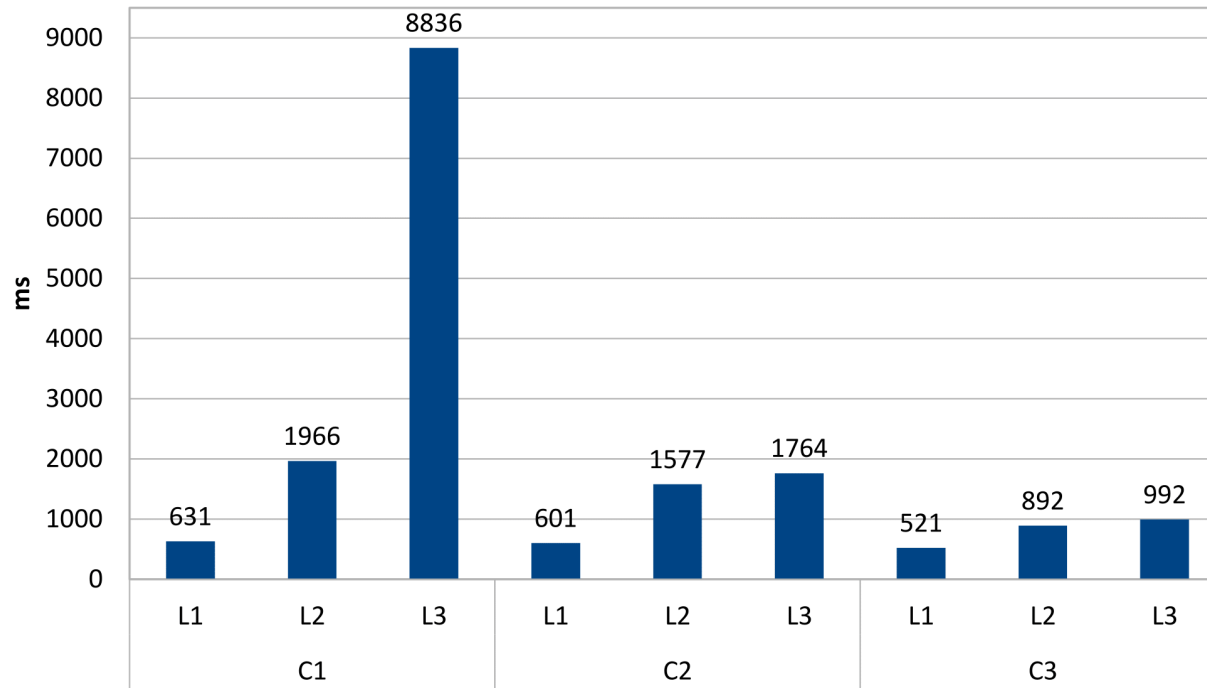


# Evaluation

# Deployed Architecture



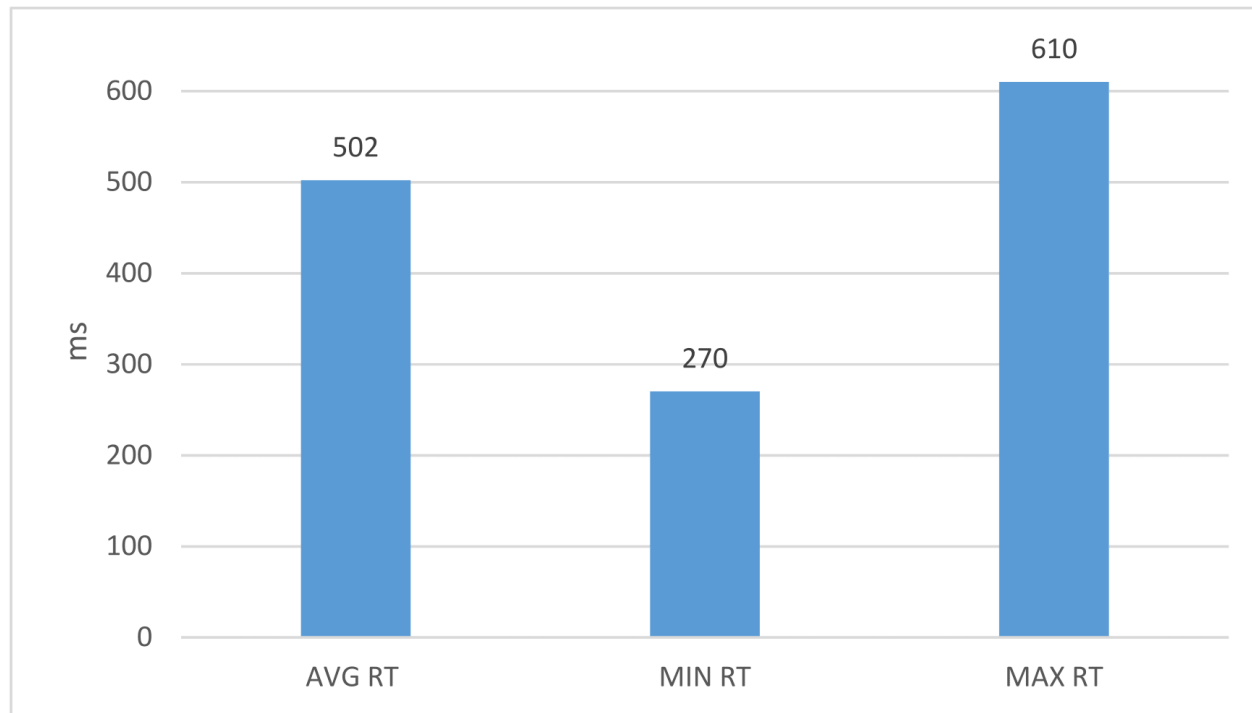
# Response Time (1 / 2)



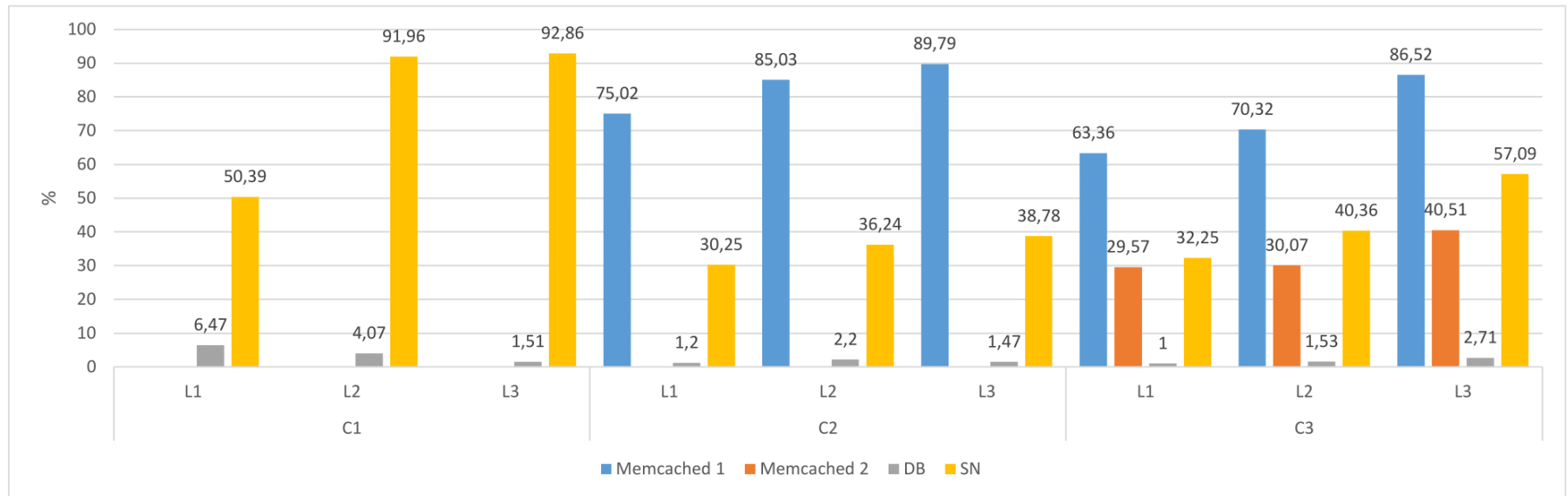
L1	10 users request 2 applications and the executions of them
L2	10 users request 4 applications and the executions of them
L3	10 users request 8 applications and the executions of them

# Response Time (2/2)

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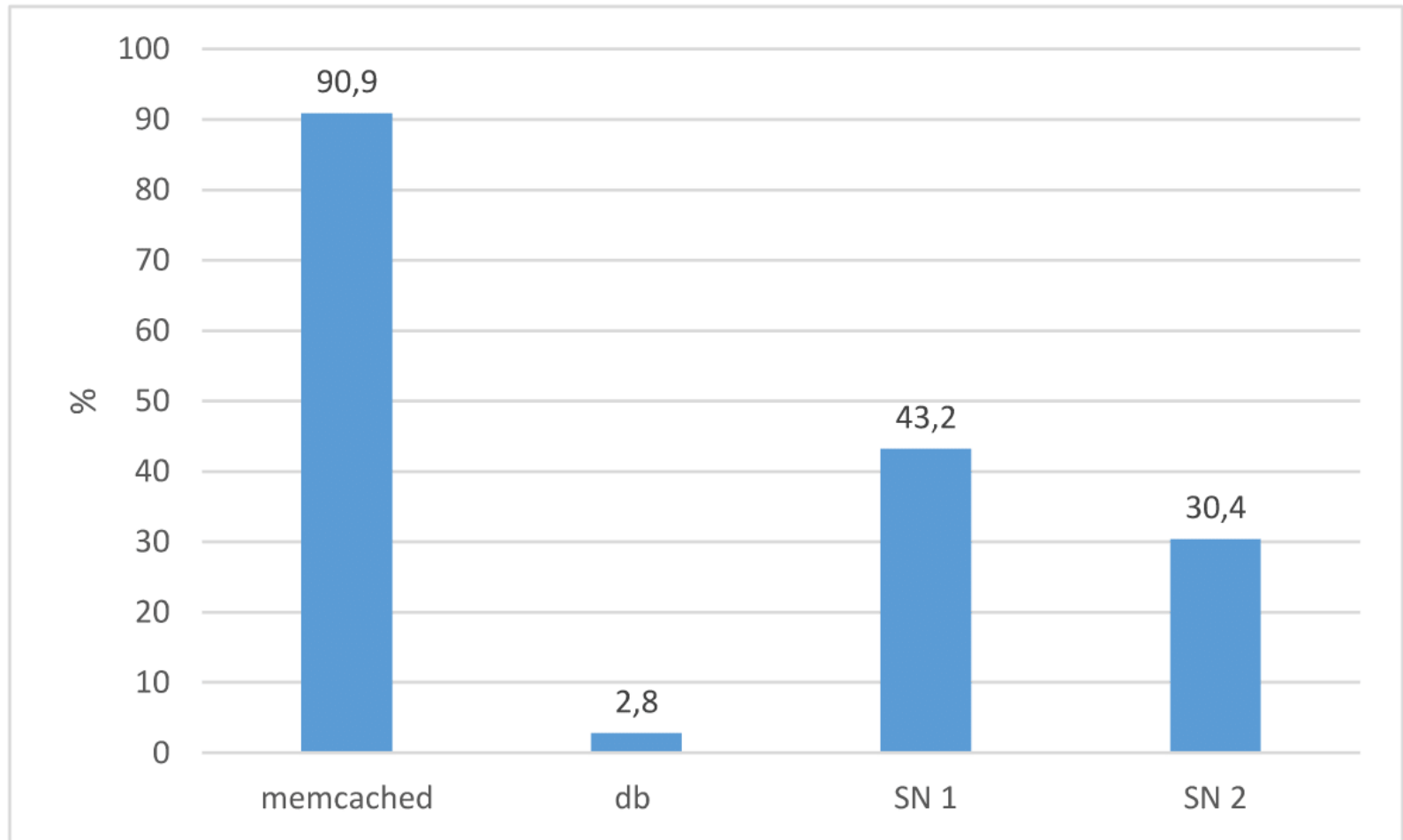
# CPU Utilization (1 / 2)





# CPU Utilization (2/2)

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# NLP classification evaluation

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class / class	reliability	design	optimazation	performance	scalability
reliability	<b>21</b>	0	8	1	0
design	2	<b>15</b>	8	3	2
optimazation	2	3	<b>15</b>	9	1
performance	2	1	17	<b>9</b>	1
scalability	10	6	3	3	<b>8</b>

# Conclusion

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## ▶ Contributions

- ▶ A social network User Interface is implemented for DevOps cloud deployment specialists.
- ▶ The SN Platform can perform NLP classification on the user's input.
- ▶ A scalable system architecture of our SNP is presented.

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# Thank you