

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

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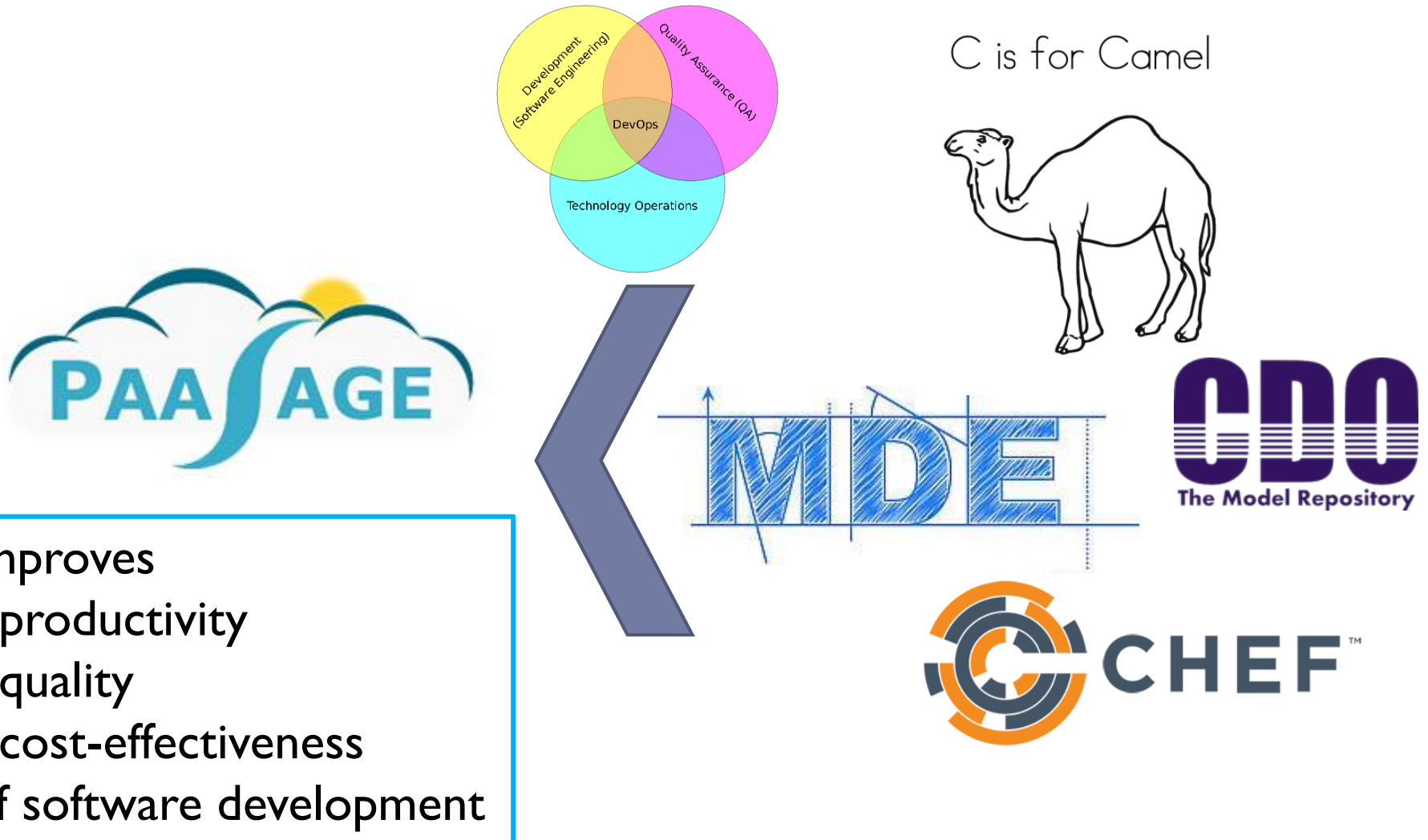
Agenda

- ▶ Introduction
- ▶ Design and Implementation
- ▶ Evaluation

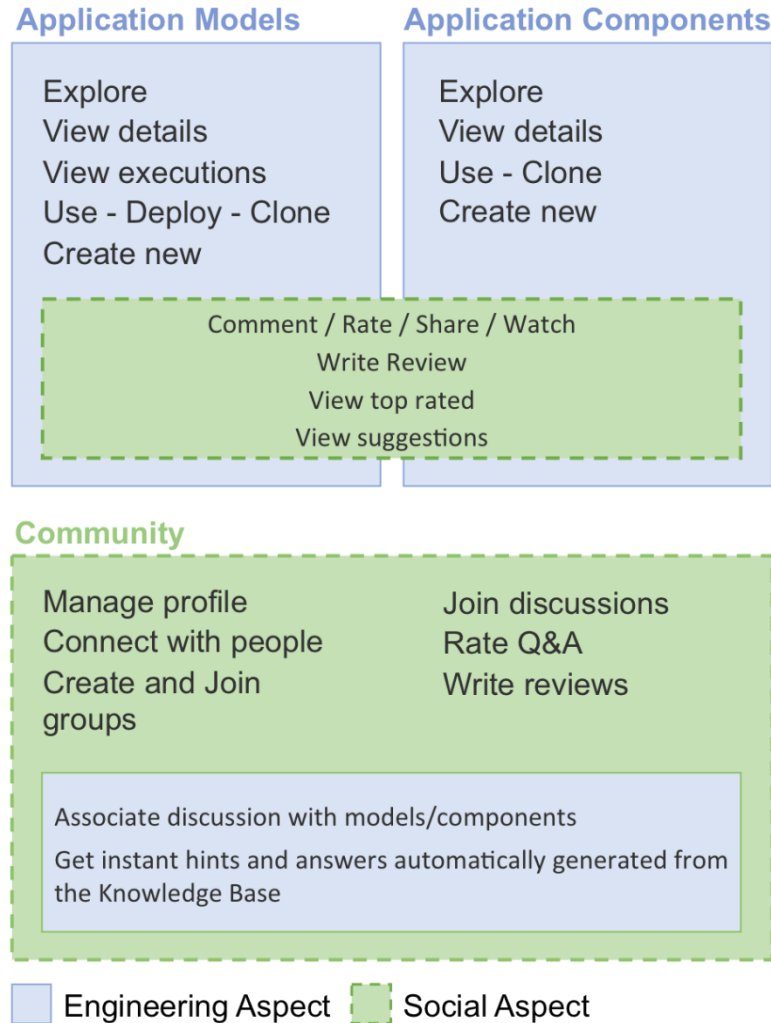


introduction

Context



Research goal

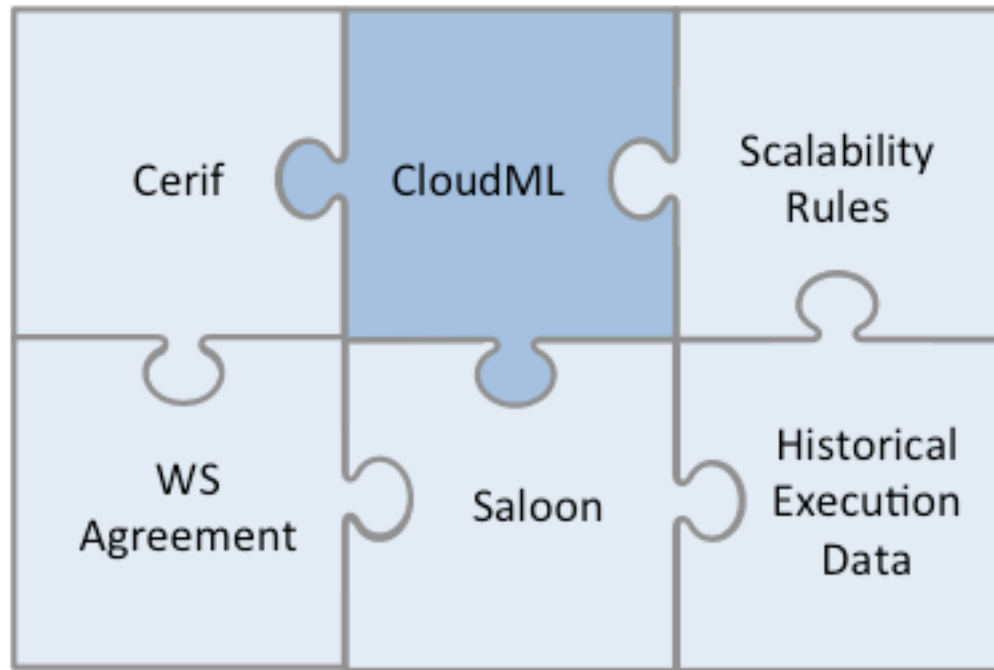


Contributions

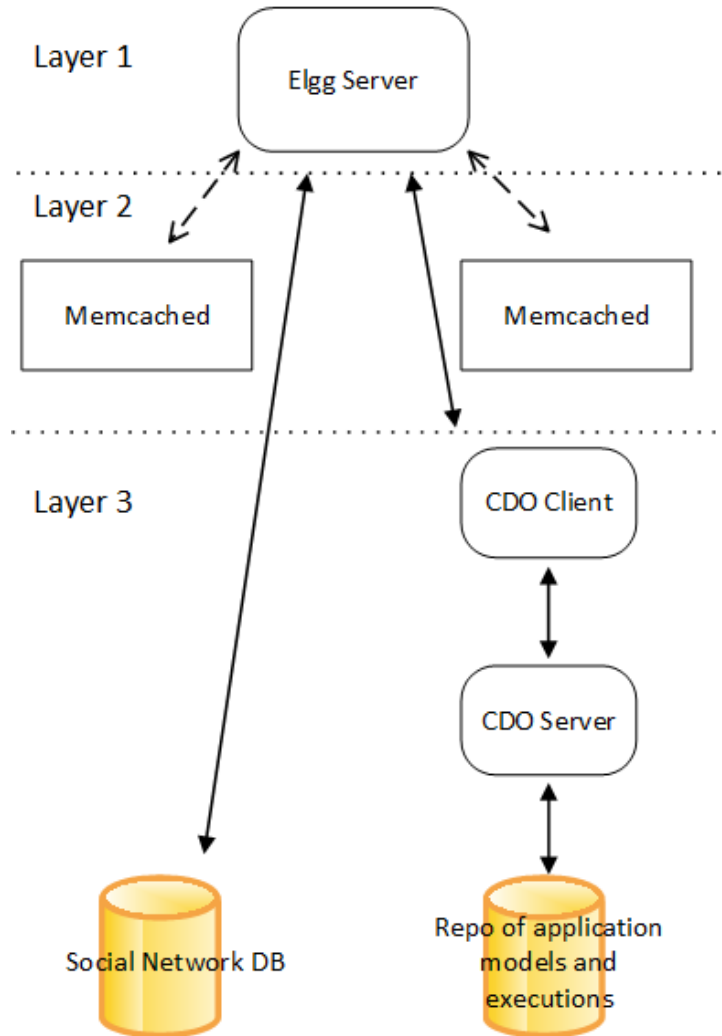
- ▶ The Social Networking Platform (SNP) brings the executions histories of the CAMEL models to the end users.
- ▶ The SNP can scale and provide near-real time response time.
- ▶ They used known techniques of Natural Language Processing for the user input.
- ▶ UI evaluation

Design and Implementation

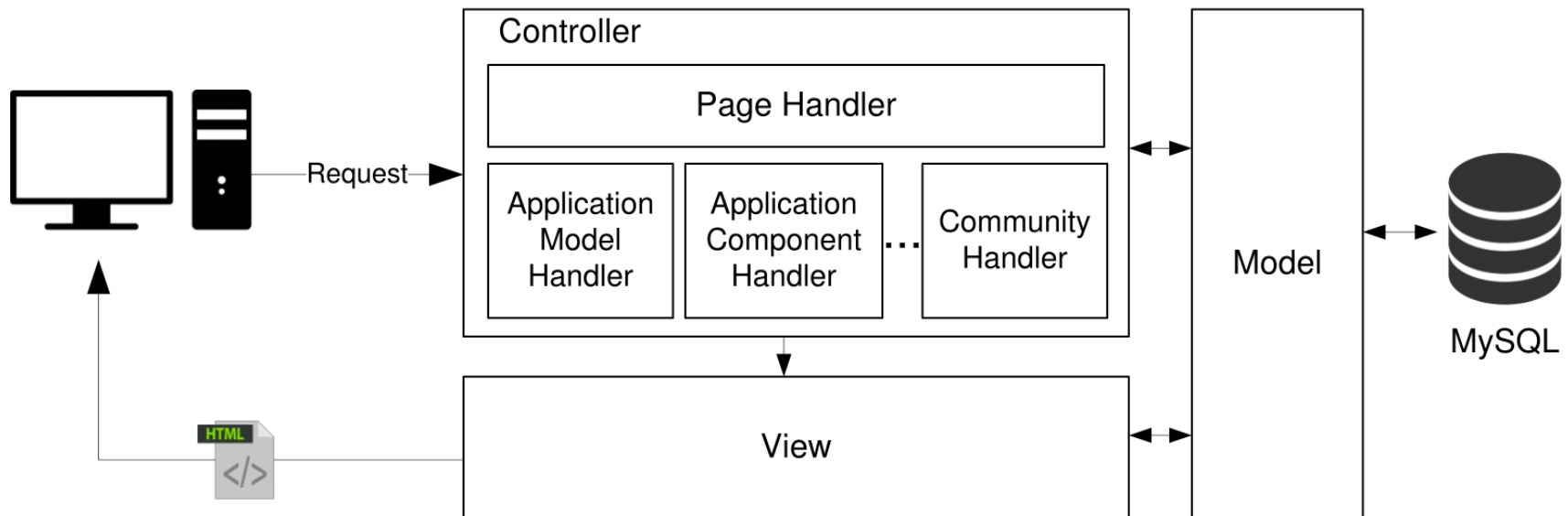
CAMEL family



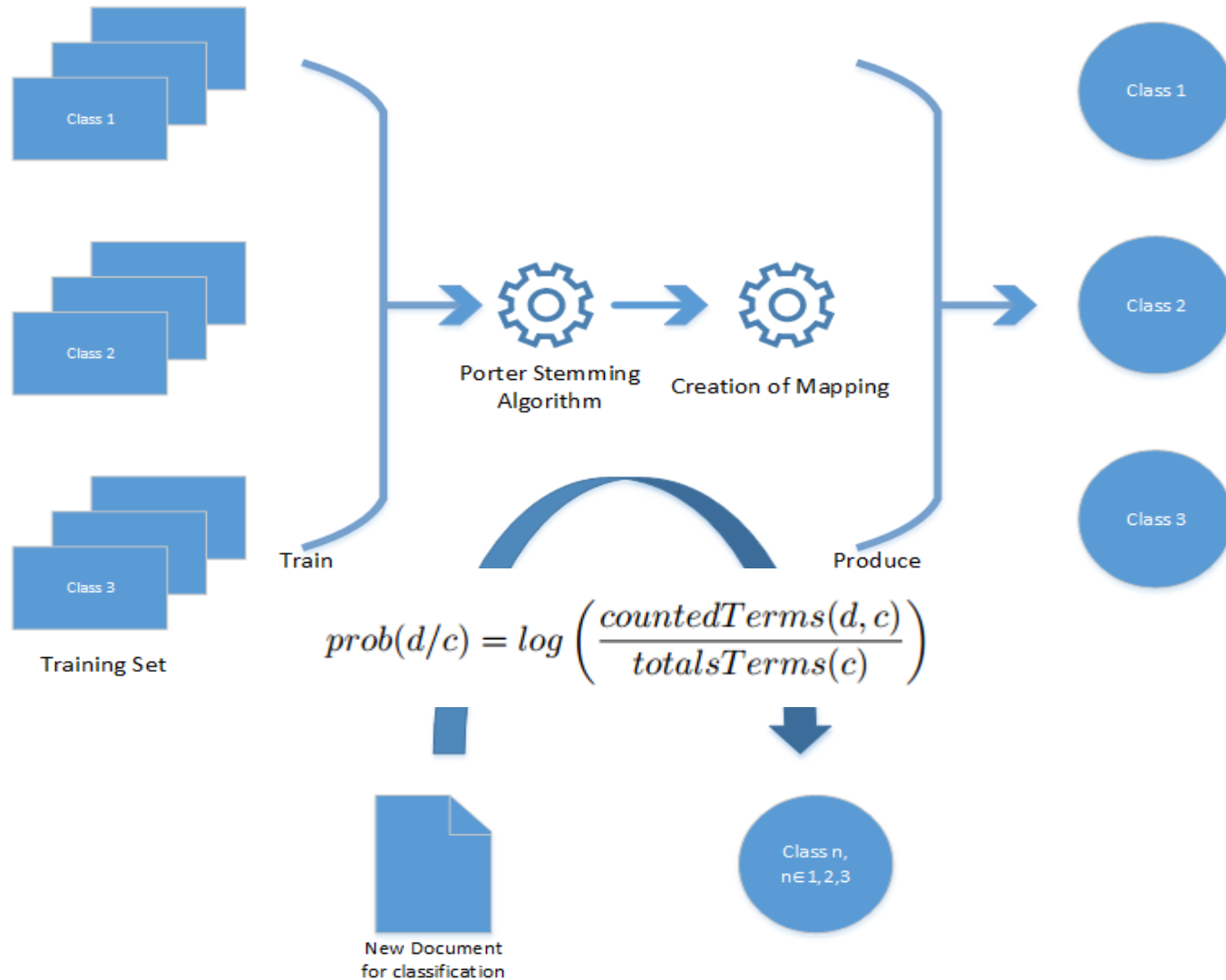
System Architecture



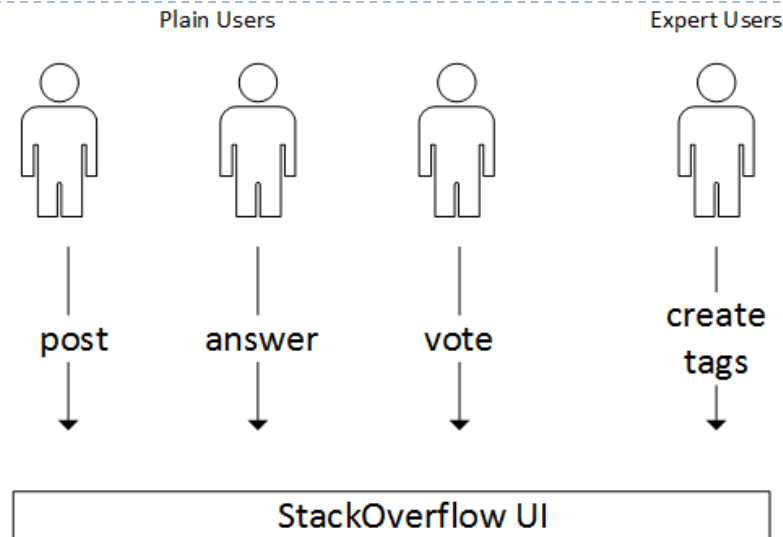
Social Networking Engine Architecture



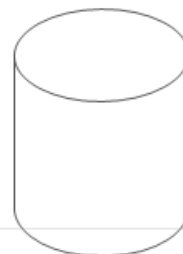
NLP Topic Classification



StackOverflow Community



How Scalable is SQLite? [closed]



Repository
of Q&A

▲
147
▼
★
65

I recently read this Question about [SQLite vs MySQL](#) and the answer pointed out that SQLite doesn't scale well and the official website [sort-of confirms this](#), however.

How scalable is SQLite and what are its upper most limits?

sqlite scalability

share edit flag

edited Oct 27 '09 at 1:20



Sinan Ünür

86.5k ● 10 ● 130 ● 258

asked Sep 10 '08 at 18:47



GateKiller

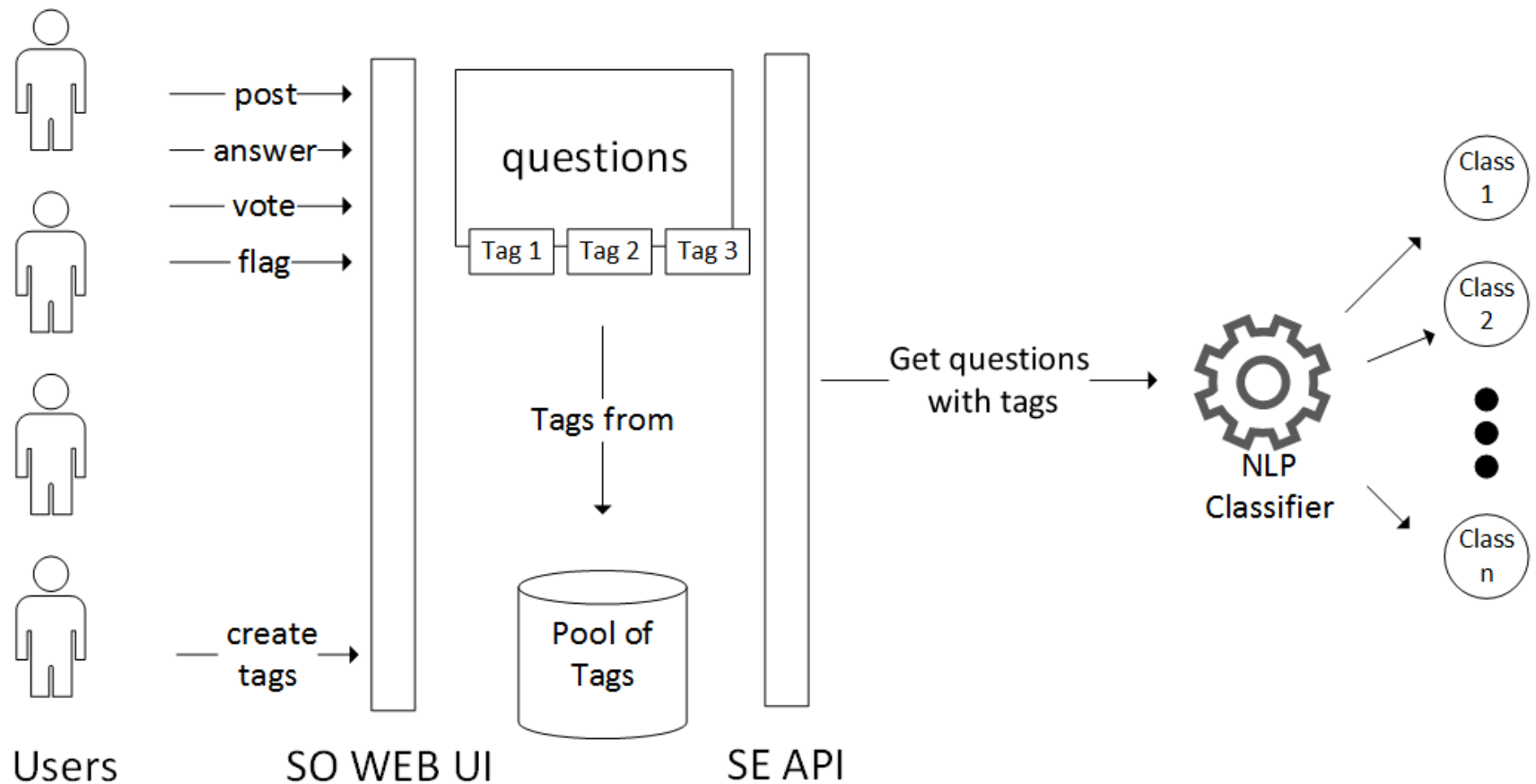
23k ● 50 ● 139 ● 183

asked 7 years ago

viewed 30107 times

active 2 years ago

NLP Classifier





Evaluation

User Interface Evaluation Process

- ▶ Introduction to the purpose of the evaluation
- ▶ Their requirements from DevOps platforms and social networking sites
- ▶ Feedback regarding our SNP;

User's Requirements

View and share source code

Deployment scripts and instructions

Direct model execution

Application binaries

Software project management

User's Feedback

Detailed model information

Automated replies

Model sharing

User profile tags UI design

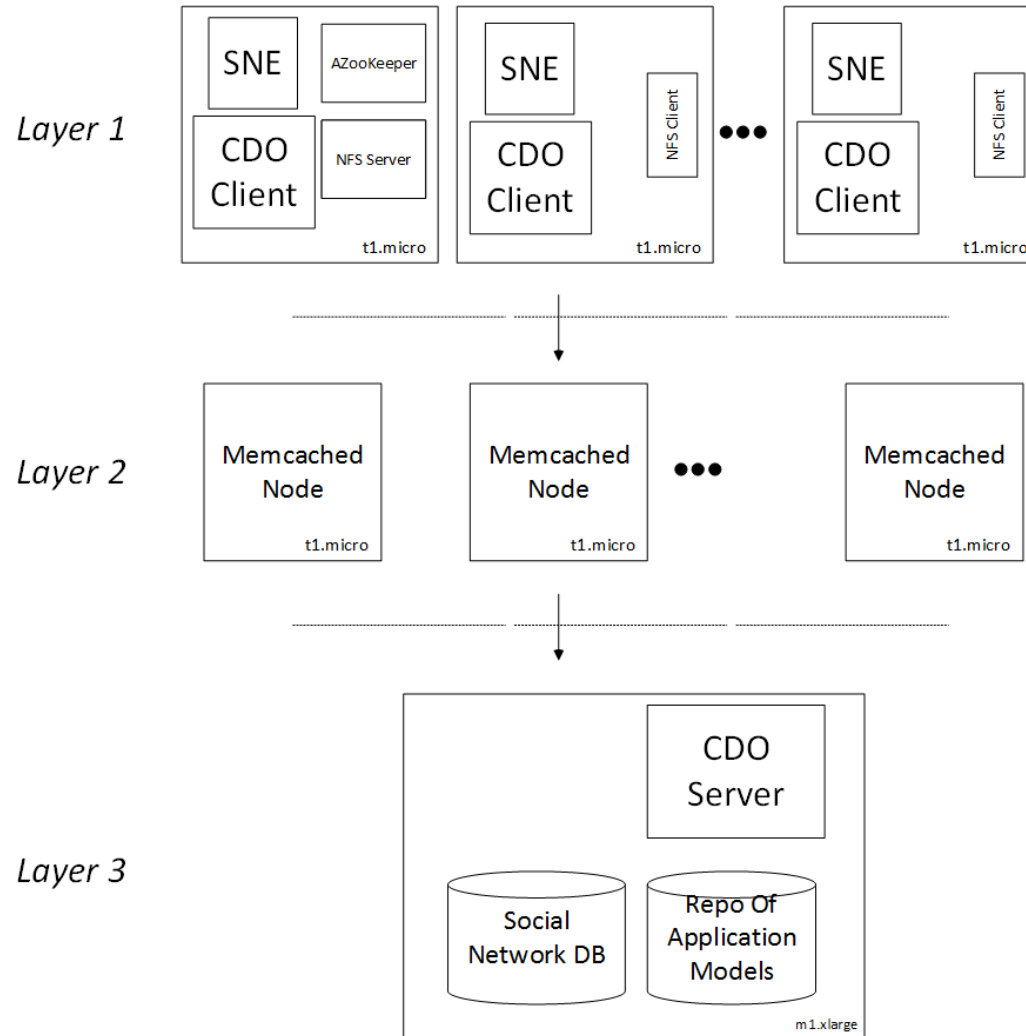
Execution histories

Social features

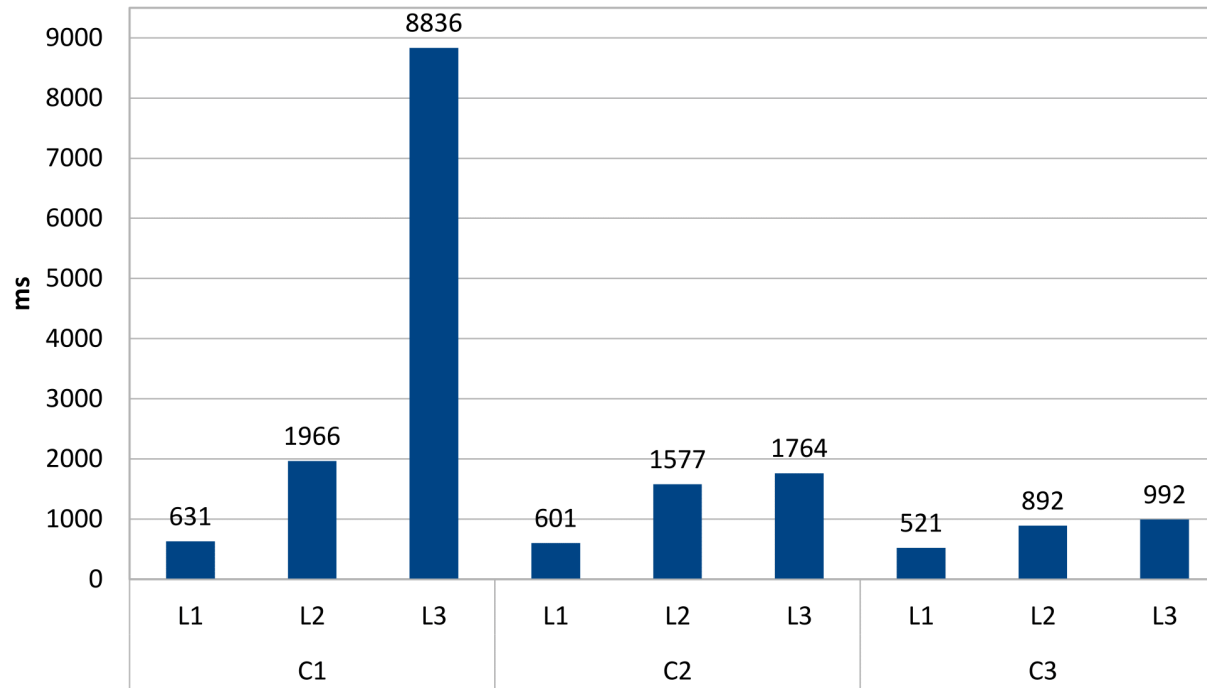
Charts and statistical information

Projects and users connection

Evaluated Architecture

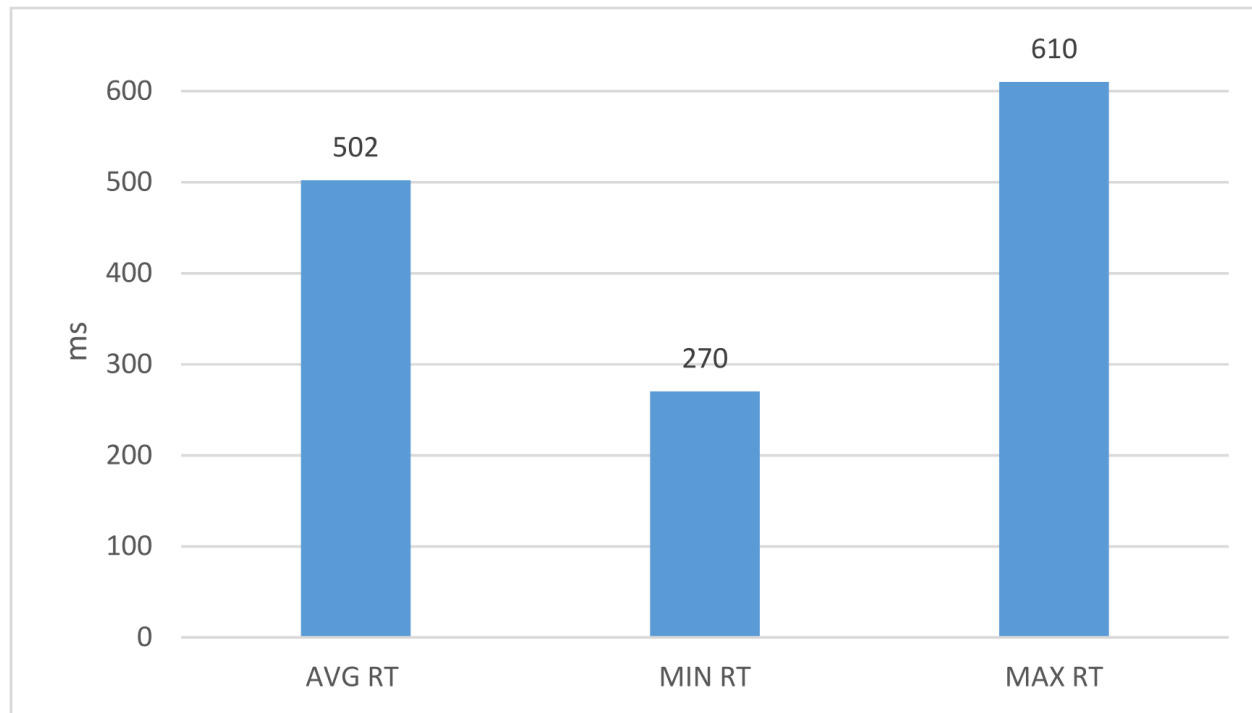


Response Time (1 / 2)

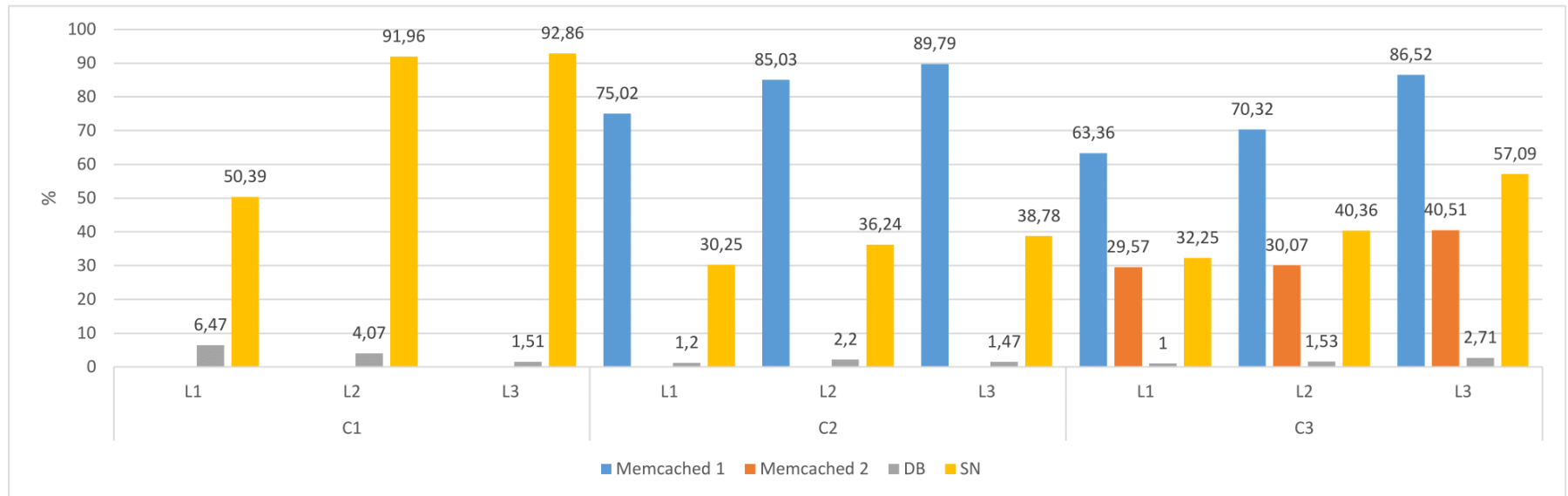


L1	10 users request 2 applications and the executions of them
L2	10 users request 4 applications and the executions of them
L3	10 users request 8 applications and the executions of them

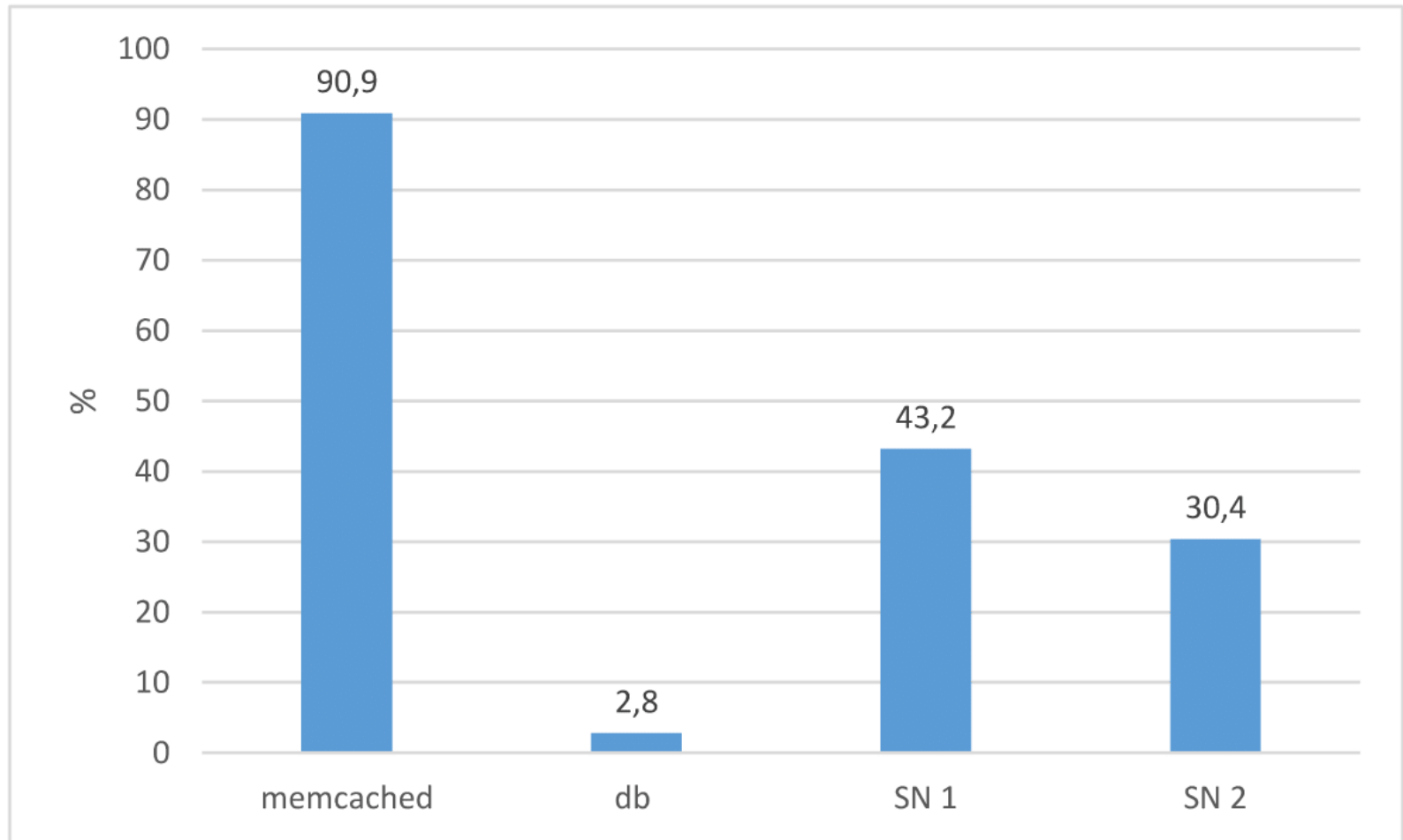
Response Time (2/2)



CPU Utilization (1 / 2)



CPU Utilization (2/2)



NLP classification evaluation

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

Conclusion

▶ 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.
- ▶ An evaluation of the UI and its functionality

Thank you