COS 301 - Mini Project

Functional requirements and Application design

GROUP 1B

2015

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1 Group Information

1.1 General Information

We used Github as our version control service. The repository can be accessed at: https://github.com/thinusn/Mini-Project-Requirements-Group-1B

1.2 Group members

- 13033922 Elzahn Botha
- 12223426 Estian Rosslee
- 13025105 Jaco-Louis Kruger
- 13073878 Christopher Arajo
- 13093500 Paul Engelke
- 13028741 Frikkie Snyman
- 13019602 Thinus Naude

1.3 Contributions to project

1.3.1 Participation

Estian Rosslee (12223426) only attended the two 1-hour meetings we had, **he did not** do any of the work presented in this document. All other members of the group participated fully towards completing the project.

1.3.2 Who did what

- Planning: Everyone
- Use case prioritization: Everyone
- Services contracts: Jaco-Louis Kruger, Daniel Arajo, Thinus Naude, Paul Engelke and Frikkie Snyman
- Required functionality: Jaco-Louis Kruger and Thinus Naude
- Process specifications: Elzahn Botha, Daniel Arajo, Paul Engelke
- Domain Model: Frikkie Snyman
- LaTex: Thinus Naude

1.3.3 Github contribution



Figure 1: Github pushes for project.

2 Functional requirements and application design

2.1 Use case prioritization

2.1.1 Critical

A use case which is absolutely essential

- Create, Read/View/Get, Delete and Update of BuzzSpace
- Create, Read/View/Get, Delete and Update of Thread
- Create, Read/View/Get, Delete and Update of Thread Posts
- Authentication

2.1.2 Important

The system would still be useful without some of the important use cases, but the client would get quantifiably less value from the system.

- User (profiles and actions)
- User Communication (Email Templates)
- Tagging

2.1.3 Nice-To-Have

Its a requirement but the value to the clientis insignificant.

- Plagiarism checker
- Netiquette checker

2.2 Services contracts

2.2.1 Analytics

IMAGE OF AnalyticsSC

Figure 2: Analytics services contracts.

2.2.2 Authentication

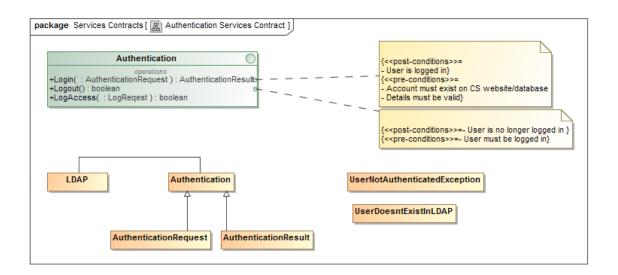


Figure 3: Authentication services contracts.

2.2.3 BuzzSpace

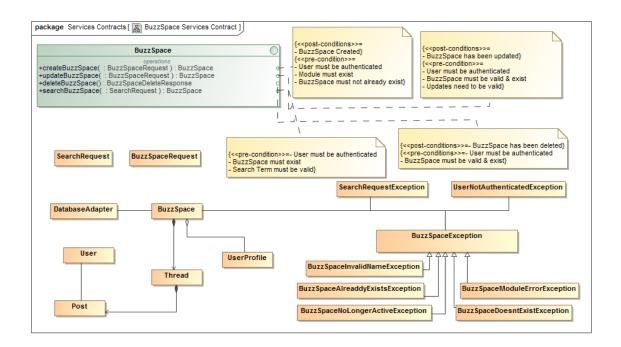


Figure 4: BuzzSpace services contracts.

2.2.4 Communication

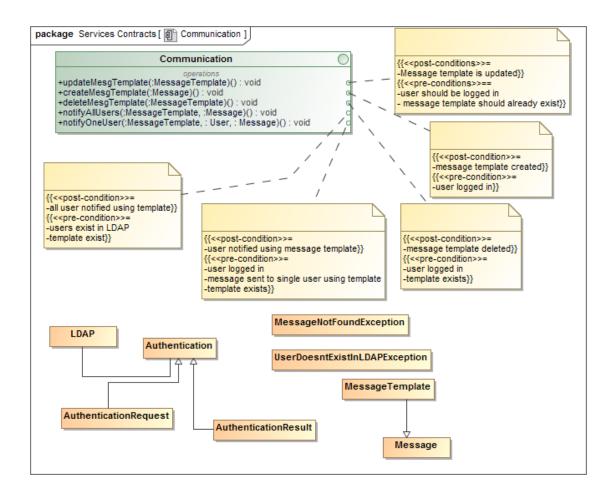


Figure 5: Communication services contracts.

2.2.5 Plagiarism / Netetiquette

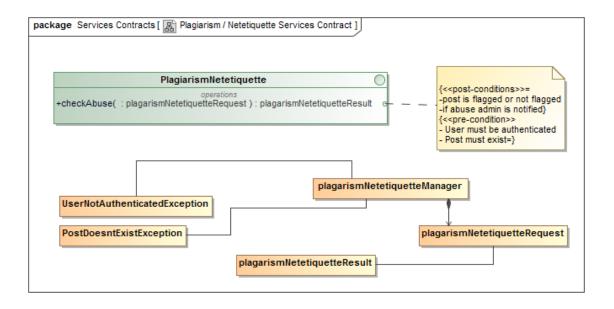


Figure 6: Plagiarism and Netetiquette services contracts.

2.2.6 Tagging

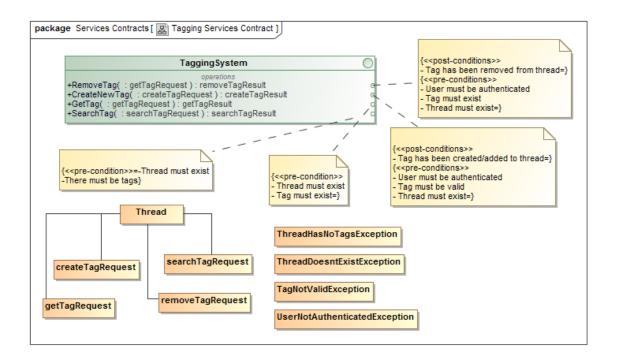


Figure 7: Tagging services contracts.

2.2.7 Thread

IMAGE OF ThreadSC

Figure 8: Tagging services contracts.

2.2.8 Thread Posts

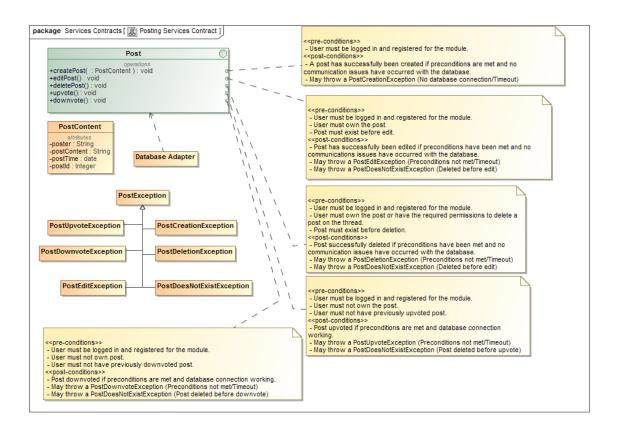


Figure 9: Thread Posts services contracts.

2.2.9 User

IMAGE OF UserSC

Figure 10: Tagging services contracts.

2.3 Required functionality

2.3.1 Analytics

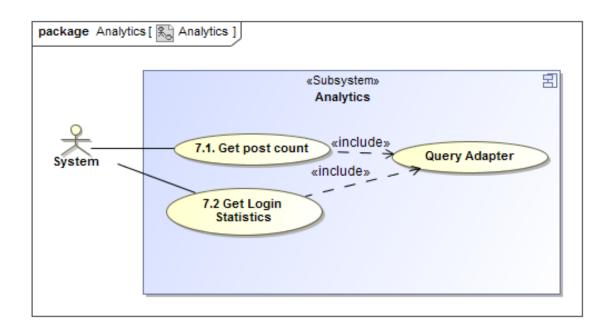


Figure 11: Analytics sub system use case diagram.

2.3.2 Authentication

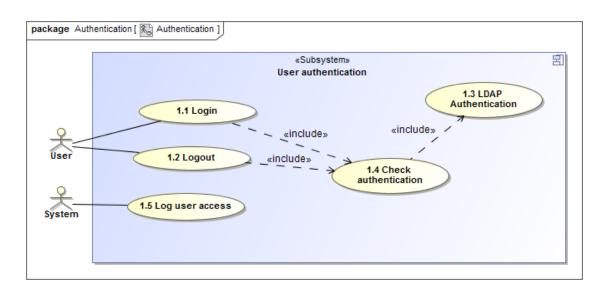


Figure 12: Authentication sub system use case diagram.

2.3.3 BuzzSpace

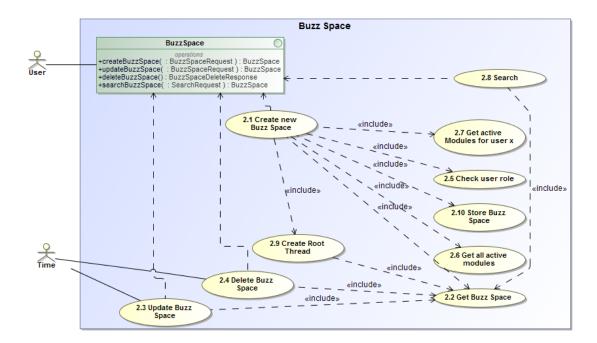


Figure 13: BuzzSpace sub system use case diagram.

2.3.4 Communication

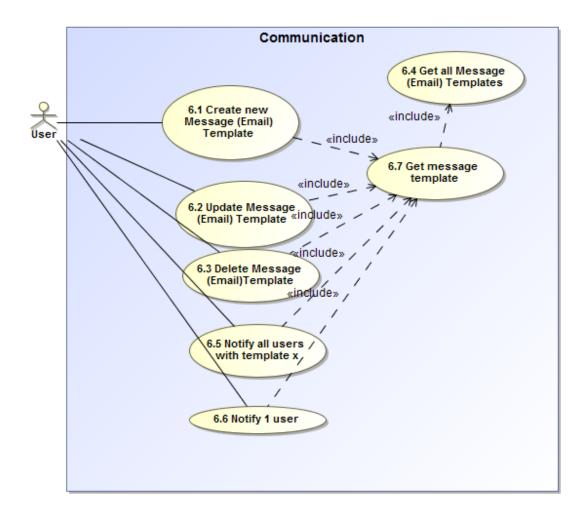


Figure 14: Communication sub system use case diagram.

2.3.5 Plagiarism / Netetiquette

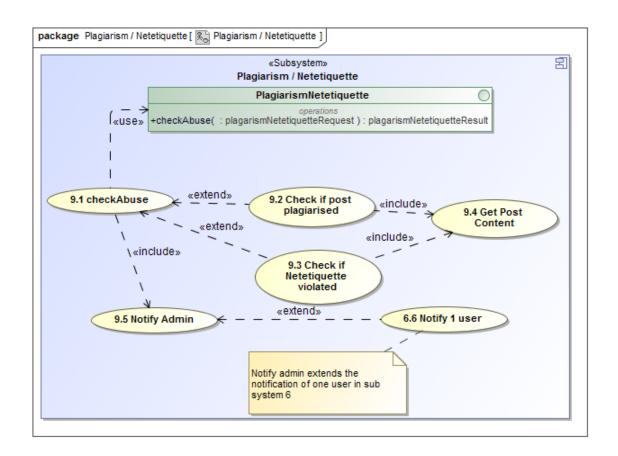


Figure 15: Plagiarism and Netetiquette sub system use case diagram.

2.3.6 Tagging

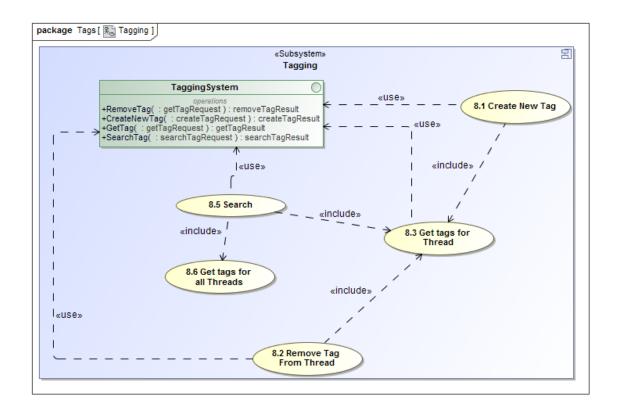


Figure 16: Tagging sub system use case diagram.

2.3.7 Thread

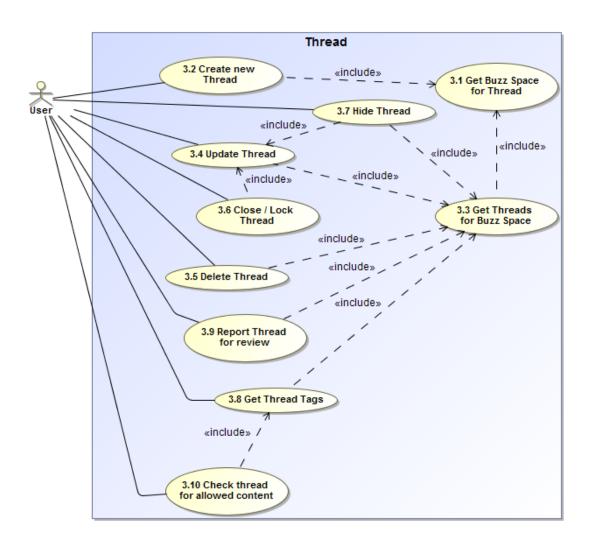


Figure 17: Tagging sub system use case diagram.

2.3.8 Thread Posts

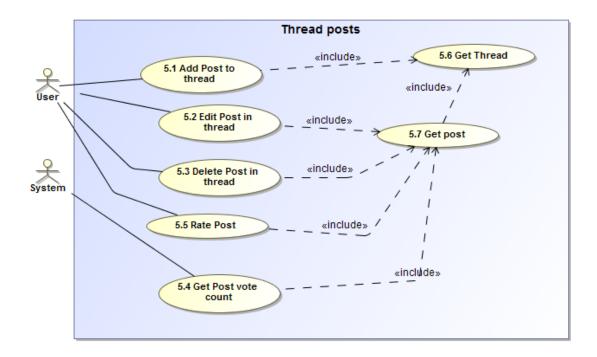


Figure 18: Thread Posts sub system use case diagram.

2.3.9 User

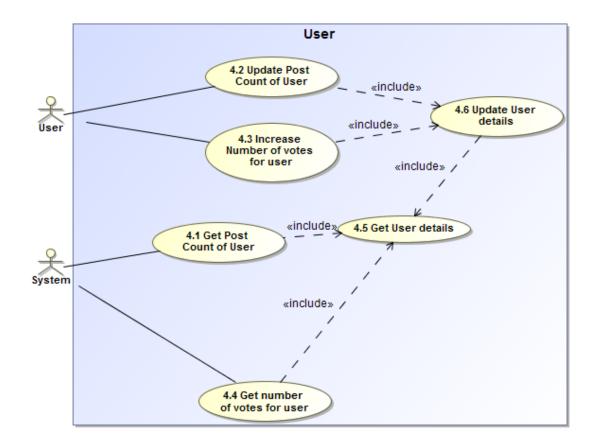


Figure 19: Tagging sub system use case diagram.

- 2.4 Process specifications
- 2.4.1 Analytics
- 2.4.2 Authentication
- 2.4.3 BuzzSpace
- 2.4.4 Communication
- 2.4.5 Plagiarism / Netetiquette
- 2.4.6 Tagging
- **2.4.7** Thread
- 2.4.8 Thread posts
- 2.4.9 User

2.5 Domain Model

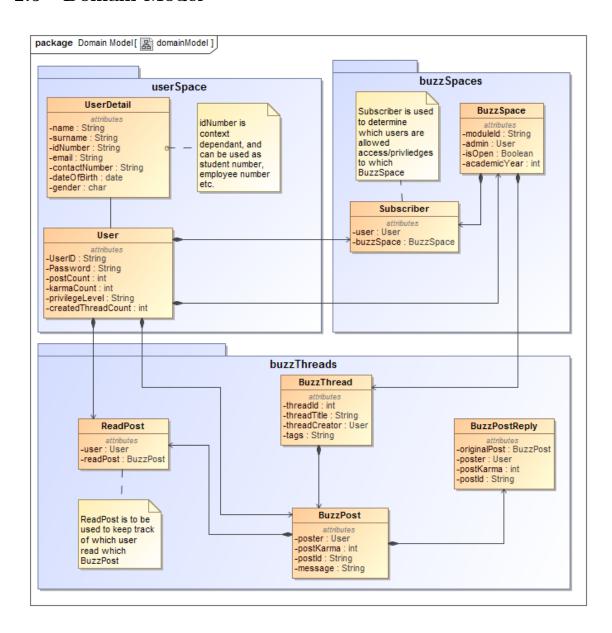


Figure 20: Domain model for the discussion board.